



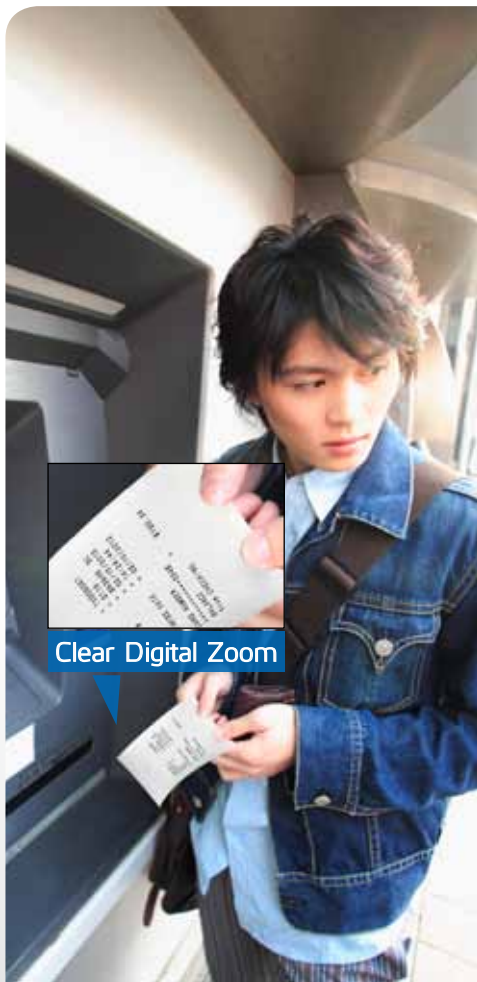
# Clearly Different



Video Surveillance Solutions Vol. 53



Network Video Recorders



- Full Range of IP Solutions
- 960H DVRs & Cameras
- Intensifier<sup>3</sup> Cameras
- Wide Dynamic Range
- High Resolution Monitors
- CCTV & A/V Accessories
- Mounts / Housings & Accessories
- Camera Lenses / Power & Video Cables
- Superior Technical & Customer Support

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## Outside Sales Support

Our professional and friendly regional sales managers are our first line of support. In addition to selling the features and benefits of our unique product line, they also provide on-site demonstrations and formal classroom training sessions for video surveillance and audio.

## Outstanding Product Warranties

Most of our quality video surveillance cameras are backed by a 5 year warranty and most DVRs offer a 3 year warranty.

## Custom Marketing Support

We offer custom marketing materials with our customers' company logo and contact information added. Marketing materials include posters, postcards, mailers, brochures, email blasts, etc.

## Committed to Customers

Our knowledgeable Customer Support staff is in place to assist in placing orders or to help answer any questions regarding our products. Customer Support is available from 8:30 AM to 5:30 PM EST.

## Elite Product Support

Our Product Support team is available to assist in designing a system, help with installations and other professional advice. Product Support is available from 8:30 AM to 7:00 PM EST.

## Training

Speco offers training at industry events, distributor locations and in our corporate offices. Included in the training program are live webinars and how-to videos online. We also offer BICSI and CEU certified courses in video surveillance and 70V audio.

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# Video Security Solutions Vol. 53



Remote Set-Up Through Network, High Quality Image



Communicate with remote locations instantly to assist in crime prevention.



Wide Dynamic Range



Quickly search events from thumbnails.



Infrared Light, Vivid Images



One click wizard guides you to set up essentials of the system in a logical and easy to understand sequence.



Intensifier<sup>3</sup>® Technology  
See Color In Near Darkness  
Without IR LEDs - Unique to Speco



Audio/Visual Crime Deterrent  
Stop Crime Before It Happens.



Intensifier® with 960H Technology



Intensifier® Technology  
with 1000 TVL Resolution



Highest Resolution Analog  
DVRs & Cameras



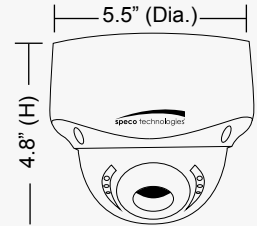
Always use discretion when installing video and/or audio surveillance equipment especially when there is an expectation of privacy. Inquire regarding federal, state and/or local regulations applicable to the lawful installation of video and/or audio recording or surveillance equipment. Party consent may be required.

## Full HD 1080p 2MP Indoor/ Outdoor Vandal Resistant Dome IP Camera

**O2D10** 3-9mm auto iris varifocal motorized lens, dark grey housing

### Features

- EZ Focus: motorized pan, tilt & 3x zoom lens with auto focus for completely hassle-free remote focusing
- Supports up to Full HD 1080p @ 60fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 65 ft. (depending on scene reflection)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP66 and IK10 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor..... Progressive scan 1/2.8" CMOS, 2.0MP  
 Maximum Resolution .... 1920x1080  
 Minimum Illumination .... F1.2, Color: 0.05 lux, BW: 0.01 lux  
 IR Range ..... 65 ft. (depending on scene reflection)  
 Focus..... Motorized auto focus  
 White Balance..... Automatic, Manual, ATW  
 Exposure Control ..... Yes  
 Digital Slow Shutter..... Yes  
 De-Fog ..... Yes  
 WDR/BLC..... Both  
 Day/Night ..... IR cut filter  
 DNR..... 2D+3D

### Video Specifications

Supported Resolutions... 1920x1080 / 1280x720 @ 60fps or 30fps  
 Compression ..... H.264 (HP/MP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 2 simultaneous streams

### Audio Specifications

Mono Input ..... 64Kbps G.711  
 Mono Output ..... 64Kbps G.711

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output (terminal block)  
 Video ..... BNC out  
 Audio ..... 1 input, 1 output (terminal block)  
 Power ..... 2-pin terminal block  
 Storage..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour

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### Network Specifications (continued)

DDNS support..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS  
 User Access ..... 20 simultaneous users. Performance may vary depending on resolution and number of connections

### System Specifications

PoE..... Standard (IEEE 802.3af)  
 Analytics..... Motion detection (3 regions), tampering alarm, face detection  
 Alarm Triggers..... Motion, sensor input, tamper detection, face detection, audio detection  
 Alarm Events..... FTP video/image file upload, email image upload, micro SD card recording, relay out  
 Video Buffer..... Configurable pre-record & post-record (5/5 sec)  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support... Windows (Internet Explorer 8 and up)  
 PC Application..... SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption..... 10.4W (PoE), 8.7W (12VDC)  
 Operating Temperature .. 14° F – 122° F  
 Operating Humidity ..... 0% – 80% RH  
 Unit Dimensions..... 4.8" (H) x 5.5" (Dia.)  
 Unit Weight..... 2.16 lbs.  
 Certifications ..... FCC, UL, RoHS  
 Included in Package..... Unit, CD (manual, software), mounting template sheet, mounting screws, mounting plate, BNC cable

### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



**PSW5**  
12VDC  
Power Supply

## Full HD 1080p Indoor/Outdoor Vandal Resistant Dome IP Camera

**O2D4** 3.6-16mm auto iris varifocal lens, dark grey housing



### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 49' (depending on scene reflection)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP66 and IK08 compliant
- ONVIF Profile S listed\*
- 2 year warranty

### Camera Specifications

Image Sensor ..... Progressive scan 1/2.9" CMOS, 2.0MP  
 Maximum Resolution ..... 1920x1080  
 Minimum Illumination..... F1.4, 0.12 lux (IR on – 0 lux)  
 IR LEDs ..... 18  
 IR Range ..... 49' (depending on scene reflection)  
 White Balance ..... Automatic  
 Exposure Control..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... WDR  
 Day/Night..... IR-cut filter  
 DNR..... 2D/3D

### Video Specifications

Supported Resolutions .. 1920x1080 @ 30fps / 1280x720 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MJPEG  
 Bitrate Control..... VBR, CBR  
 Multiple Streaming..... 5 simultaneous profiles

### Audio Specifications

Mono Input..... 64Kbps G.711 / 32Kbps G.726  
 Mono Output..... 64Kbps G.711

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... Analog test output  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Power ..... DC jack  
 Storage ..... Micro SD slot

### Network Specifications

Protocols..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS

### Network Specifications (continued)

DDNS support ..... Speco DDNS (free of charge)  
 Security..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording, alarm out  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings..... Text overlay, privacy mask

### Client Specifications

Web Browser Support ... Windows (Internet Explorer 8 and up)  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 6W with IR  
 Operating Temperature.. -4° F – 122° F  
 Operating Humidity..... 8% – 80% RH  
 Unit Dimensions ..... 3.62" (H) x 5.11" (Dia.)  
 Unit Weight..... 2 lbs.  
 Certifications..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting screws, L wrench

### Free Apps with support for view on most smart devices

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### Optional Accessories

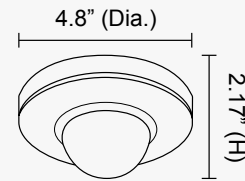


## 5MP 360° Panoramic Indoor/Outdoor Miniature Dome IP Camera

- O5MDP1** 0.98-1.12mm panomorph lens, dark grey housing
- O5MDP1W** 0.98-1.12mm panomorph lens, white housing

### Features

- 360° field of view
- Various panoramic viewing features
- 5MP resolution
- Built-in standard PoE (IEEE 802.3af)
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP66 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor.....	Progressive scan 1/2.5" CMOS, 5.0MP
Maximum Resolution .....	2592x1944
Minimum Illumination .....	F1.4, 0.12 lux
S/N Ratio.....	47dB
White Balance.....	Automatic
Exposure Control .....	Yes
Digital Slow Shutter.....	Yes
WDR/BLC.....	WDR
Day/Night .....	N/A
DNR.....	2D/3D

### Video Specifications

Supported Resolutions....	2592x1944 @ 10fps
Compression.....	H.264 (HP/MP/BP), MJPEG
Bitrate Control .....	VBR, CBR
Multiple Streaming .....	5 simultaneous profiles

### Audio Specifications

Mono Input .....	64Kbps G.711 / 32Kbps G.726
Mono Output .....	64Kbps G.711

### External Terminal Specifications

Ethernet.....	10/100 Mbps
Alarm .....	1 sensor input, 1 output
Audio .....	1 mic in, 1 line out (3.5mm)
Power .....	DC jack
Storage.....	Micro SD slot

### Network Specifications

Protocols .....	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS
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### Network Specifications (continued)

DDNS support.....	Speco DDNS (free of charge)
Security .....	User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log
User Access .....	8 simultaneous users at D1 resolution Number of users may vary depending on resolution

### System Specifications

PoE.....	Standard (IEEE 802.3af)
Analytics.....	Motion detection (3 regions), audio detection
Alarm Triggers.....	Analytics & sensor input
Alarm Events.....	FTP video file upload, email image upload, micro SD card recording, alarm out
Video Buffer.....	Configurable pre-record & post-record
Image Settings .....	Text overlay, privacy mask

### Client Specifications

Web Browser Support....	Windows (Internet Explorer 8 and up)
Mobile Apps.....	Speco OnSIP (iPhone®, iPad® and Android™)
PC Application.....	Speco NVR

### Operating & Unit Specifications

Power Supply.....	PoE, 12VDC (power supply not included)
Power Consumption.....	3W
Operating Temperature ...	-4° F – 122° F
Operating Humidity .....	8% – 80% RH
Unit Dimensions.....	2.17" (H) x 4.8" (Dia.)
Unit Weight.....	14.40 oz.
Certifications .....	FCC, RoHS
Included in Package.....	Unit, CD (manual, software), L wrench, mounting screws

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### Optional Accessories

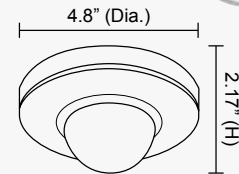


## Full HD 1080p 2MP Indoor/Outdoor Miniature Dome IP Camera

- O2MD1** 3.7mm fixed lens, dark grey housing
- O2MD1W** 3.7mm fixed lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 30' (depending on scene reflection)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP66 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor .....	Progressive scan 1/2.9" CMOS, 2.0MP
Maximum Resolution .....	1920x1080
Minimum Illumination.....	F1.4, 0.12 lux (IR on – 0 lux)
S/N Ratio .....	50dB
IR LEDs .....	12
IR Range .....	30' (depending on scene reflection)
White Balance .....	Automatic
Exposure Control.....	Yes
Digital Slow Shutter .....	Yes
WDR/BLC .....	WDR
Day/Night.....	IR-cut filter
DNR.....	2D/3D

### Video Specifications

Supported Resolutions .....	1920x1080 @ 30fps / 1280x720 @ 30fps
Compression .....	H.264 (HP / MP / BP), MJPEG
Bitrate Control.....	VBR, CBR
Multiple Streaming.....	5 simultaneous profiles

### Audio Specifications

Mono Input.....	64Kbps G.711 / 32Kbps G.726
Mono Output.....	64Kbps G.711

### External Terminal Specifications

Ethernet.....	10/100 Mbps
Alarm .....	1 sensor input, 1 output
Audio .....	1 mic in, 1 line out (3.5mm)
Power .....	DC jack
Storage.....	Micro SD slot

### Network Specifications

Protocols.....	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS
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### Network Specifications (continued)

DDNS Support.....	Speco DDNS (free of charge)
Security.....	User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log
User Access.....	8 simultaneous users at D1 resolution Number of users may vary depending on resolution

### System Specifications

PoE.....	Standard (IEEE 802.3af)
Analytics .....	Motion detection (3 regions), audio detection
Alarm Triggers .....	Analytics & sensor input
Alarm Events .....	FTP video file upload, email image upload, micro SD card recording, alarm out
Video Buffer .....	Configurable pre-record & post-record
Image Settings.....	Text overlay, privacy mask

### Client Specifications

Web Browser Support .....	Windows (Internet Explorer 8 and up)
Mobile Apps.....	Speco OnSIP (iPhone®, iPad® and Android™)
PC Application .....	Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply .....	PoE, 12VDC (power supply not included)
Power Consumption .....	6W with IR
Operating Temperature.....	-13° F – 122° F
Operating Humidity.....	8% – 80% RH
Unit Dimensions .....	2.17" (H) x 4.8" (Dia.)
Unit Weight.....	14.40 oz.
Certifications.....	FCC, RoHS
Included in Package .....	Unit, CD (manual, software), L wrench, mounting screws

### Free Apps with support for view on most smart devices

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### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



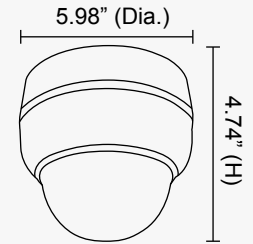
**PSW5**  
12VDC  
Power Supply

## 3MP Indoor/Outdoor Vandal Resistant Dome IP Camera

**VIP3D2M** 3-9mm auto iris varifocal motorized lens, white housing

### Features

- Maximum resolution of 3.0 megapixels (2048x1536)
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs (24, 65 ft.)
- Motorized lens with auto focus
- Wide dynamic range (WDR) operation
- Supports H.264, MPEG4, and MJPEG codecs
- 2-way audio communication
- Digital Deterrent®
- Micro SD card slot (card not included)
- IP66 and IK10 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.8" Sony Exmor CMOS, 3.0MP  
 Maximum Resolution..... 2048x1536  
 Minimum Illumination..... F1.2, Color: 0.2 lux, BW: 0.01 lux  
 IR LEDs ..... 24  
 IR Range ..... 65' (depending on scene reflection)  
 Focus..... Motorized remote auto focus  
 White Balance ..... Automatic, Manual  
 Exposure Control..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... Both, WDR/BLC  
 Day/Night..... IR cut filter  
 DNR..... 2D

### Video Specifications

Supported Resolutions .. 2048x1536 @ 20fps  
 1920x1080 / 1280x1024 / 1280x720 / 704x576 / 704x480 / 640x480 / 320x240 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control..... VBR, CBR  
 Multiple Streaming..... 3 simultaneous profiles

### Audio Specifications

Mono Input..... 64Kbps G.711  
 Mono Output..... 64Kbps G.711

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... 3.5mm jack (test monitor)  
 Audio ..... 3.5mm jack  
 Power ..... 2-pin terminal block  
 Storage..... Micro SD slot

### Network Specifications

Protocols..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour  
 DDNS Support..... Speco DDNS (free of charge)  
 Security..... User ID & Password protection, IP address filtering, HTTPS  
 User Access..... 10 simultaneous users  
 Performance may vary depending on resolution and number of connections

### System Specifications

PoE..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers ..... Motion, sensor input, on boot, network loss, manual  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording, HTTP server, alarm out, boost  
 Video Buffer..... Configurable pre-record & post-record  
 Image Settings..... Privacy mask

### Client Specifications

Web Browser Support ... Windows (Internet Explorer 8 and up, Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC, 24VAC (power supply not included)  
 Power Consumption .... PoE / 12VDC, 130mA / 24VAC, 700mA / 8.5VA  
 Operating Temperature .. -13° F – 122° F  
 Operating Humidity..... 0% – 90% RH  
 Unit Dimensions ..... 4.74" (H) x 5.98" (Dia.)  
 Unit Weight ..... 2.56 lbs.  
 Certifications..... FCC, RoHS  
 Included in Package .... Unit, CD (manual, software), mounting template sheet, mounting screws, alarm cable

### Optional Accessories



**APT32DW**  
Adaptor Plate



**COR32DW**  
Corner Mount Adaptor, use with APT32DW



**IPPOEINJ1295**  
12.95W PoE Injector



**POL28DW**  
Pole Mount use with APT32DW



**VIPRC**  
Remote Control



**WAC29DW**  
Wall/ Ceiling Adaptor



**WMA29DW**  
Wall Mount



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply

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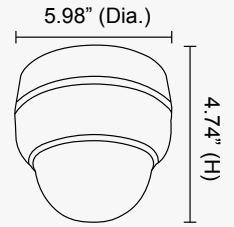


## Full HD 1080p 2MP Indoor/Outdoor Vandal Resistant Dome IP Camera

**VIP2D2M** 3-9mm auto iris varifocal motorized lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 65' (depending on scene reflection)
- Motorized lens for remote focusing
- Supports H.264, MPEG4, and MJPEG codecs
- 2-way audio communication
- Digital Deterrent®
- Micro SD card slot (card not included)
- IP66 and IK10 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor .....	Progressive scan 1/2.8" Sony Exmor CMOS, 2.0MP
Maximum Resolution .....	1920x1080
Minimum Illumination.....	F1.2, Color: 0.2 lux, BW: 0.01 lux
IR LEDs .....	24
IR Range .....	65' (depending on scene reflection)
Focus.....	Motorized remote focus
White Balance .....	Automatic, Manual
Exposure Control.....	Yes
Digital Slow Shutter .....	Yes
WDR/BLC .....	BLC
Day/Night.....	IR cut filter
DNR.....	2D

### Video Specifications

Supported Resolutions .....	1920x1080 / 1280x1024 / 1280x720 / 704x576 / 704x480 / 640x480 / 320x240 @ 30fps
Compression .....	H.264 (HP/MP/BP), MPEG4 (SP), MJPEG
Bitrate Control.....	VBR, CBR
Multiple Streaming.....	3 simultaneous profiles

### Audio Specifications

Mono Input.....	64Kbps G.711
Mono Output.....	64Kbps G.711

### External Terminal Specifications

Ethernet.....	10/100 Mbps
Alarm .....	1 sensor input, 1 output
Video .....	3.5mm jack (test monitor)
Audio .....	3.5mm jack
Power .....	2-pin terminal block
Storage .....	Micro SD slot

### Network Specifications

Protocols.....	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour
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### Network Specifications (continued)

DDNS support .....	Speco DDNS (free of charge)
Security.....	User ID & Password protection, IP address filtering, HTTPS
User Access.....	10 simultaneous users
	Performance may vary depending on resolution and number of connections

### System Specifications

PoE.....	Standard (IEEE 802.3af)
Analytics .....	Motion detection (8 regions)
Alarm Triggers .....	Motion, sensor input, on boot, network loss, manual
Alarm Events .....	FTP video file upload, email image upload, micro SD card recording, HTTP server, alarm out, boost
Video Buffer .....	Configurable pre-record & post-record
Image Settings.....	Privacy mask

### Client Specifications

Web Browser Support.....	Windows (Internet Explorer 8 and up, Chrome, Firefox)
Mobile Apps.....	Speco VIP (iPhone®, iPad® and Android™)
PC Application .....	Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply .....	PoE, 12VDC, 24VAC (power supply not included)
Power Consumption .....	8W with IR
Operating Temperature .....	-4° F – 122° F
Operating Humidity.....	0% – 90% RH
Unit Dimensions .....	4.74" (H) x 5.98" (Dia.)
Unit Weight.....	2.56 lbs.
Certifications.....	FCC, RoHS
Included in Package .....	Unit, CD (manual, software), mounting template sheet, mounting screws, alarm cable

### Optional Accessories



**APT32DW**  
Adaptor Plate



**COR32DW**  
Corner Mount Adaptor, use with APT32DW



**IPPOEINJ1295**  
12.95W PoE Injector



**POL28DW**  
Pole Mount use with APT32DW



**VIPRC**  
Remote Control



**WMA29DW**  
Wall Mount



**WAC29DW**  
Wall/ Ceiling Adaptor



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply

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## Full HD 1080p 2MP Indoor/Outdoor Vandal Dome IP Camera

**VIP2D2** 3-9mm auto iris varifocal lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Supports H.264, MPEG4, and MJPEG codecs
- 2-way audio communication
- Digital Deterrent®
- Micro SD card slot (card not included)
- IP66 and IK10 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor..... Progressive scan 1/2.8" Sony Exmor CMOS, 2.0MP  
 Maximum Resolution..... 1920x1080  
 Minimum Illumination..... F1.2, Color: 0.2 lux, BW: 0.01 lux  
 IR LEDs..... N/A  
 IR Range..... N/A  
 White Balance..... Automatic, Manual  
 Exposure Control..... Yes  
 Digital Slow Shutter..... Yes  
 WDR/BLC..... BLC  
 Day/Night..... IR cut filter  
 DNR..... 2D

### Video Specifications

Supported Resolutions... 1920x1080 / 1280x1024 / 1280x720 / 704x576 / 704x480 / 640x480 / 320x240 @ 30fps  
 Compression..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control..... VBR, CBR  
 Multiple Streaming..... 3 simultaneous profiles

### Audio Specifications

Mono Input..... 64Kbps G.711  
 Mono Output..... 64Kbps G.711

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm..... 1 sensor input, 1 output  
 Video..... 3.5mm jack (test monitor)  
 Audio..... 3.5mm jack  
 Power..... 2-pin terminal block  
 Storage..... Micro SD slot

### Network Specifications

Protocols..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour  
 DDNS support..... Speco DDNS (free of charge)  
 Security..... User ID & Password protection, IP address filtering, HTTPS  
 User Access..... 10 simultaneous users. Performance may vary depending on resolution and number of connections

### System Specifications

PoE..... Standard (IEEE 802.3af)  
 Analytics..... Motion detection (8 regions)  
 Alarm Triggers..... Motion, sensor input, on boot, network loss, manual  
 Alarm Events..... FTP video file upload, email image upload, micro SD card recording, HTTP server, alarm out, boost  
 Video Buffer..... Configurable pre-record & post-record  
 Image Settings..... Privacy mask

### Client Specifications

Web Browser Support... Windows (Internet Explorer 8 and up, Chrome, Firefox)  
 Mobile Apps..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply..... PoE, 12VDC, 24VAC (power supply not included)  
 Power Consumption..... 6W  
 Operating Temperature... -4° F – 122° F  
 Operating Humidity..... 0% – 90% RH  
 Unit Dimensions..... 4.74" (H) x 5.98" (Dia.)  
 Unit Weight..... 2.56 lbs.  
 Certifications..... FCC, RoHS  
 Included in Package..... Unit, CD (manual, software), mounting template sheet, mounting screws, alarm cable

### Optional Accessories



**APT32DW**  
Adaptor Plate



**COR32DW**  
Corner Mount Adaptor, use with APT32DW



**IPPOEINJ1295**  
12.95W PoE Injector



**POL28DW**  
Pole Mount use with APT32DW



**WMA29DW**  
Wall Mount



**VIPRC**  
Remote Control



**WAC29DW**  
Wall/ Ceiling Adaptor



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply

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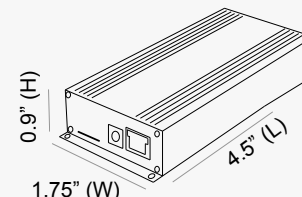
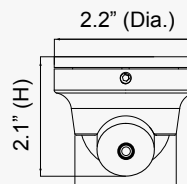
## Full HD 1080p 2MP Indoor/Outdoor Miniature Dome/Turret IP Camera

**O2MT61B** 3.7mm fixed lens, black housing

**O2MT61** 3.7mm fixed lens, white housing

### Features

- Separate camera and encoder units allow for flexibility and easy placement
- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor.....Progressive scan 1/2.7" CMOS, 2.0MP  
 Maximum Resolution .....1920x1080  
 Minimum Illumination .....F1.4, 0.12 lux  
 S/N Ratio.....39dB  
 White Balance .....Automatic  
 Digital Slow Shutter.....Yes  
 WDR/BLC.....WDR  
 DNR.....2D/3D

### Video Specifications

Supported Resolutions....1920x1080 @ 30fps / 1280x720 @ 30fps  
 Compression.....H.264 (HP/MP/BP), MJPEG  
 Bitrate Control .....VBR, CBR  
 Multiple Streaming .....5 simultaneous profiles

### Audio Specifications

Mono Input .....64Kbps G.711 / 32Kbps G.726  
 Mono Output .....64Kbps G.711

### External Terminal Specifications

Ethernet.....10/100 Mbps  
 Alarm .....1 sensor input, 1 relay output  
 Audio .....1 mic in, 1 line out (3.5mm)  
 Power .....DC jack  
 Storage.....Micro SD slot

### Network Specifications

Protocols .....IPv4, TCP, UDP, RTCP, RTP, RTSP, HTTP, SMTP, FTP, DHCP, UPnP, NTP, DNS  
 DDNS support.....Speco DDNS (free of charge)  
 Security .....User ID & Password protection, IP address filtering, digest authentication, user access log

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### Network Specifications (continued)

User Access .....8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE.....Standard (IEEE 802.3af)  
 Analytics.....Motion detection (3 regions), audio detection  
 Alarm Triggers.....Analytics & sensor input  
 Alarm Events.....FTP video file upload, email image upload, micro SD card recording, alarm out  
 Video Buffer.....Configurable pre-record & post-record  
 Image Settings .....Text overlay, privacy mask

### Client Specifications

Web Browser Support....Windows (Internet Explorer 8 and up)  
 Mobile Apps.....Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application.....Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply .....PoE, 12VDC (power supply not included)  
 Power Consumption.....8W  
 Operating Temperature...32° F – 113° F  
 Operating Humidity .....8% – 80% RH  
 Unit Dimensions.....Camera: 2.2" (Dia.) x 2.1" (H)  
 Encoder Box: 1.75" (W) x 0.9" (H) x 4.5" (L)  
 Unit Weight.....12.80 oz.  
 Certifications .....FCC, RoHS  
 Included in Package.....Unit, CD (manual, software), screws

### Optional Accessories



## Intensifier3® Series Indoor/Outdoor Dome/Turret IP Camera

See Color In Almost Complete Darkness Without IR LEDs

**OINT03D1G** 2.8-12mm auto iris varifocal lens, dark grey housing



### Features

- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- External controls for zoom and focus
- Supports up to D1 resolution @ 30fps
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- IP67 compliant
- ONVIF Profile S listed\*
- 2 year warranty

### Camera Specifications

Image Sensor.....1/3" Sony Super HAD II™ CCD  
 Maximum Resolution .....704x480  
 Minimum Illumination .....CDS off: 0.15 lux, CDS on: 0.00002 lux  
 White Balance .....ATW / Indoor / Outdoor / Manual  
 Exposure Control .....Yes  
 Digital Slow Shutter.....Yes  
 WDR/BLC.....BLC  
 Day/Night .....Yes  
 DNR.....On / Off  
 Intensifier3® .....Auto / Off (selectable 2x – 512x)

### Video Specifications

Supported Resolutions...704x480 / 640x480 / 704x240 / 352x240 / 176x112 @ 30fps  
 Compression .....H.264, MJPEG  
 Bitrate Control .....VBR, CBR  
 Multiple Streaming .....5 simultaneous profiles

### Audio Specifications

Mono Input .....64Kbps G.711  
 Mono Output .....64Kbps G.711

### External Terminal Specifications

Ethernet.....10/100 Mbps  
 Alarm .....1 sensor input, 1 relay output  
 Video .....Analog test output  
 Audio .....1 mic in, 1 line out (3.5mm)  
 Power .....DC jack

### Network Specifications

Protocols .....IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS

### Network Specifications (continued)

DDNS support.....Speco DDNS (free of charge)  
 Security .....User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access .....8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE.....N/A  
 Analytics .....Motion detection (3 regions), audio detection  
 Alarm Triggers.....Analytics & sensor input  
 Alarm Events.....FTP video file upload, email image upload, alarm out  
 Video Buffer.....Configurable pre-record & post-record  
 Image Settings .....Text overlay, privacy mask

### Client Specifications

Web Browser Support...Windows (Internet Explorer 8 and up)  
 Mobile Apps.....Speco ONSIP (iPhone®, iPad® and Android™)  
 PC Application.....Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply .....12VDC (power supply not included)  
 Power Consumption.....6W  
 Operating Temperature ...-13° F – 122° F  
 Operating Humidity .....8% – 80% RH  
 Unit Dimensions .....4.37" (H) x 5.5" (Dia.)  
 Unit Weight.....3.1 lbs.  
 Certifications .....FCC, RoHS  
 Included in Package.....Unit, CD (manual, software), mounting screws, L wrench, test monitor cable

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### Optional Accessories



**INTPM**  
Pendant Mount



**INTWM**  
Dome Wall Mount



**JB03TG**  
Large Round Junction Box



**PSW5**  
12VDC Power Supply

## Full HD 1080p 2MP Indoor/Outdoor PTZ IP Camera

**O2P30** 4.3-129mm 30x optical zoom lens, white housing

### Features

- Supports Full HD 1080p @ 30fps
- Built-in PoE+ (IEEE 802.3at)
- 30x optical zoom
- True Day/Night operation (IR cut filter)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- SD card slot (card not included)
- IP66 compliant
- ONVIF Profile S listed\*
- 1 year warranty



### Camera Specifications

Image Sensor.....	Progressive scan 1/2.8" CMOS, 2.0MP
Maximum Resolution .....	1920x1080
Minimum Illumination .....	F1.6, Color: 1 lux, BW: 0.01 lux
White Balance .....	Automatic, Manual, ATW
Exposure Control .....	Yes
Digital Slow Shutter.....	Yes
WDR/BLC.....	Both
Day/Night .....	IR cut filter
DNR.....	2D+3D

### Video Specifications

Supported Resolutions....	1920x1080 / 1280x720 @ 30fps
Compression.....	H.264 (HP/MP), MJPEG
Bitrate Control .....	VBR, CBR
Multiple Streaming .....	2 simultaneous streams

### Audio Specifications

Mono Input .....	64Kbps G.711
Mono Output .....	64Kbps G.711

### PTZ Specifications

Pan Range .....	0°-360° endless
Pan Speed .....	Max. 500°/sec
Tilt Range .....	0° - 180°
Tilt Speed .....	Max. 500°/sec
Presets .....	256 positions
Tour .....	Max. 10 programmable group tours
Auto Pan .....	2 to 8 points
Pattern.....	4 programmable patterns (760 commands/pattern)
Group .....	10 groups (8 presets/group)

### External Terminal Specifications

Ethernet.....	10/100 Mbps
Alarm .....	4 sensor inputs, 2 relay outputs
Video .....	BNC out

### External Terminal Specifications (continued)

Audio .....	1 mic in, 1 line out (terminal block)
Power .....	2-pin terminal block
Storage.....	SD slot

### Network Specifications

Protocols .....	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS
DDNS support.....	Speco DDNS (free of charge)
Security .....	User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log
User Access .....	10 simultaneous users at D1 resolution Number of users may vary depending on resolution

### System Specifications

PoE.....	PoE+ (IEEE 802.3at)
Analytics.....	Motion detection (3 regions)
Alarm Triggers.....	Analytics & sensor input
Alarm Events.....	FTP video/image file upload, email image upload, SD card recording, relay out, go to preset
Video Buffer.....	Configurable pre-record & post-record (5/5 sec)
Image Settings .....	Privacy mask

### Client Specifications

Web Browser Support....	Windows (Internet Explorer 8 and up)
PC Application.....	SecureGuard®

### Operating & Unit Specifications

Power Supply.....	PoE, 24VAC (power supply not included)
Power Consumption.....	Max. 23W
Operating Temperature ...	-4° F – 122° F
Operating Humidity .....	0% – 80% RH
Unit Dimensions .....	7.68" (Dia.) x 9.01" (H)
Unit Weight.....	7.3 lbs.
Certifications .....	FCC, UL, RoHS
Included in Package.....	Unit, CD (manual, software), mounting adaptor

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### Optional Accessories



**IPPOEINJ25**  
25W PoE Injector



**PSW4**  
24VAC  
Power Supply



## Full HD 1080p 2MP Indoor/Outdoor PTZ IP Camera

**O2PTZ22D5W** 4.7-94mm 20x optical zoom lens, white housing

### Features

- Supports Full HD 1080p @ 30fps
- Built-in PoE+ (IEEE 802.3at)
- 20x optical zoom with 12x digital zoom
- Supports H.264, MPEG4, and MJPEG codecs
- Simultaneous PTZ control via RS-485 and network
- 2-way audio communication
- SD card slot (card not included)
- Outdoor, IP66 compliant housing with incorporated heater
- ONVIF Profile S listed\*
- 1 year warranty



### Camera Specifications

Image Sensor.....	Progressive scan 1/2.8" CMOS, 2.0MP
Maximum Resolution .....	1920x1080
Minimum Illumination .....	0.3 lux
White Balance .....	Automatic
Exposure Control .....	Yes
Digital Slow Shutter.....	Yes
WDR/BLC.....	BLC
Day/Night .....	IR cut filter
DNR.....	Yes

### Video Specifications

Supported Resolutions.....	1920x1080 @ 30fps
Compression .....	H.264 (HP/MP/BP), MJPEG
Bitrate Control .....	VBR, CBR
Multiple Streaming .....	5 simultaneous profiles

### Audio Specifications

Mono Input .....	64Kbps G.711 / 32Kbps G.726
Mono Output .....	64Kbps G.711

### PTZ Specifications

Pan Range .....	360° endless
Pan Speed .....	Manual: 0.5° - 200°/sec. (64 steps)
Tilt Range .....	-2° - 90°
Tilt Speed .....	Manual: 0.5° - 45°/sec. (64 steps)
Presets .....	64 positions
Tour .....	Max. 8 programmable group tours
Privacy Zone .....	24
Auto Pan .....	Programmable auto scan
Pattern.....	8 programmable patterns (total 480 sec.)
Sector .....	8 selectable sectors with 16 characters
Protocol .....	Pelco-D, Pelco-P

### External Terminal Specifications

Ethernet.....	10/100 Mbps
Alarm .....	4 sensor inputs, 2 relay outputs
Video .....	Female BNC (D1 analog output)
Audio .....	1 mic in, 1 line out (3.5mm)

### External Terminal Specifications (continued)

Control .....	RS-485 for external controller
Power .....	DC jack
Storage.....	SD slot

### Network Specifications

Protocols.....	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS
DDNS support .....	Speco DDNS (free of charge)
Security.....	User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log
User Access.....	8 simultaneous users at D1 resolution Number of users may vary depending on resolution

### System Specifications

PoE.....	PoE+ (IEEE 802.3at)
Analytics .....	Motion detection (3 regions), audio detection
Alarm Triggers .....	Analytics & sensor input
Alarm Events .....	FTP video file upload, email image upload, SD card recording, alarm out
Video Buffer .....	Configurable pre-record & post-record
Image Settings.....	Text overlay, privacy mask

### Client Specifications

Web Browser Support .....	Windows (Internet Explorer 8 and up)
Mobile Apps .....	Speco OnSIP (iPhone®, iPad® and Android™)
PC Application .....	Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply .....	PoE, 12VDC (power supply not included)
Power Consumption .....	24W
Operating Temperature.....	14° F – 122° F (without heater) -40° F – 122° F (with heater)
Operating Humidity.....	8% – 80% RH
Unit Dimensions .....	10" (W) x 18" (H)
Unit Weight .....	11.7 lbs.
Certifications.....	FCC, RoHS
Included in Package .....	Unit, CD (manual, software), wall bracket, mounting accessories

### Optional Accessories



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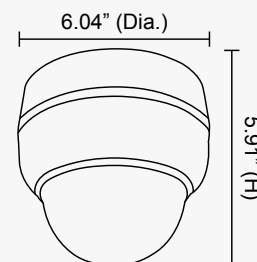


## Full HD 1080p 2MP Indoor/Outdoor 12x PTZ IP Camera

**VIP2PTZ12X** 5.32-62.61mm 12x optical zoom lens, white housing

### Features

- Supports up to Full HD 1080p@60fps
- Built-in standard PoE (IEEE 802.3af)
- 12x optical zoom with auto focus
- True Day/Night operation (IR cut filter)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Digital Deterrent®
- IP66 and IK10 compliant
- ONVIF Profile S listed\*
- 1 year warranty



### Camera Specifications

Image Sensor	Progressive scan 1/2.8" Sony Exmor CMOS, 2.0MP
Maximum Resolution	1920x1080
Minimum Illumination	Color: 0.5 lux, BW: 0.1 lux
White Balance	Automatic, Manual
Exposure Control	Yes
Digital Slow Shutter	Yes
WDR/BLC	Both, WDR/BLC
Day/Night	IR cut filter
DNR	2D

### Video Specifications

Supported Resolutions	1920x1080 / 1280x1024 / 1280x720 / 704x576 / 704x480 / 640x480 / 320x240 @ 60fps or 30 fps
Compression	H.264 (HP/MP/BP), MJPEG
Bitrate Control	VBR, CBR
Multiple Streaming	3 simultaneous profiles

### PTZ Specifications

Pan Range	360° endless
Pan Speed	Preset: Max 380°/sec, Manual: Max 380°/sec
Tilt Range	0° - 180°
Tilt Speed	Preset: Max 380°/sec, Manual: Max 300°/sec
Presets	240 positions
Tour	Max. 8 programmable group tours
Protocol	Pelco-D, Pelco-P

### Audio Specifications

Mono Input	64Kbps G.711
Mono Output	64Kbps G.711

### External Terminal Specifications

Ethernet	10/100 Mbps
Alarm	1 sensor input, 1 output
Analog Video	N/A

### External Terminal Specifications (continued)

Audio	1 mic in, 1 line out (3.5mm)
Power	DC jack
Communication	RS-485

### Network Specifications

Protocols	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour
DDNS support	Speco DDNS (free of charge)
Security	User ID & Password protection, IP address filtering, HTTPS
User Access	10 simultaneous users

Performance may vary depending on resolution and number of connections

### System Specifications

PoE	Standard (IEEE 802.3af)
Analytics	Motion detection (8 regions)
Alarm Triggers	Motion, sensor input, on boot, network loss, manual
Alarm Events	FTP image file upload, email notification, HTTP server, alarm out, boost
Video Buffer	Configurable pre-record & post-record
Image Settings	Privacy mask

### Client Specifications

Web Browser Support	Windows (Internet Explorer 8 and up, Chrome, Firefox)
Mobile Apps	Speco VIP (iPhone®, iPad® and Android™)
PC Application	Speco VMS

### Operating & Unit Specifications

Power Supply	PoE, 12VDC, 24VAC (power supply not included)
Power Consumption	12W
Operating Temperature	-15° F – 122° F
Operating Humidity	0% – 90% RH
Unit Dimensions	6.04" (Dia.) x 5.91" (H)
Unit Weight	3.52 lbs.
Certifications	FCC, RoHS
Included in Package	Unit, CD (manual, software), mounting template sheet, mounting bracket, safety lanyard, accessory kit, accessory connector

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### Optional Accessories



**KBDPTZ1**  
Keyboard  
Controller



**IPPOEINJ1295**  
12.95W  
PoE Injector



**PSW4**  
24VAC  
Power Supply

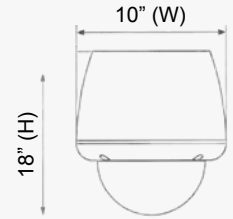


**PSW5**  
12VDC  
Power Supply

See Page 39 for Optional Mounting Accessories

## Indoor/Outdoor PTZ IP Camera

**OPTZ36XO** 3.4-122.4mm 36x optical zoom lens, white housing



OPTZWB wall mount included

### Features

- Built-in PoE+ (IEEE 802.3at)
- 36x optical zoom with 12x digital zoom
- Supports H.264 and MJPEG codecs
- Supports up to D1 resolution @ 30fps
- 2-way audio communication
- SD card slot (card not included)
- IP66 compliant
- ONVIF Profile S listed\*
- 1 year warranty

### Camera Specifications

Image Sensor ..... 1/4" Sony ExView HAD™ CCD  
 Maximum Resolution ..... 704x480  
 Minimum Illumination ..... Normal: 0.1 lux; Night: 0.01 lux  
 WDR/BLC ..... BLC  
 Day/Night ..... IR cut filter

### Video Specifications

Supported Resolutions..... 704x480 / 640x480 / 704x240 / 352x240 / 176x112 @ 30fps  
 Compression ..... H.264, MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 5 simultaneous profiles

### Audio Specifications

Mono Input ..... 64Kbps G.711  
 Mono Output ..... 64Kbps G.711

### PTZ Specifications

Pan Range ..... 360° endless  
 Pan Speed ..... Manual: 0.5° - 200°/sec. (64 steps)  
 Tilt Range ..... -2° - 90°  
 Tilt Speed ..... Manual: 0.5° - 45°/sec. (64 steps)  
 Presets ..... 165 positions  
 Tour ..... Max. 8 programmable group tours  
 Privacy Zone ..... 24  
 Auto Pan ..... Programmable auto scan  
 Pattern ..... 8 programmable patterns (total 480 sec.)  
 Sector ..... 8 selectable sectors with 16 characters  
 Protocol ..... Pelco-D, Pelco-P

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 4 sensor inputs, 2 relay outputs  
 Video ..... Female BNC (D1 analog output)  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Control ..... RS-485 for external controller

### External Terminal Specifications (continued)

Power ..... DC jack  
 Storage ..... SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS  
 DDNS support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access ..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE ..... PoE+ (IEEE 802.3at)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, SD card recording, alarm out  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Text overlay

### Client Specifications

Web Browser Support .... Windows (Internet Explorer 8 and up)  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 24W  
 Operating Temperature... 14° F – 122° F (without heater)  
 -40° F – 122° F (with heater)  
 Operating Humidity ..... 8% – 80% RH  
 Unit Dimensions ..... 10" (W) x 18" (H)  
 Unit Weight ..... 11.7 lbs.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), wall bracket, mounting accessories

### Optional Accessories



**OPTZCB**  
Ceiling Bracket Kit



**OPTZPM**  
Pole Mount Adaptor (with OPTZWB or OPTZGN with OADP3)



**OPTZCM**  
Corner Mount Adaptor (with OPTZWB or OPTZGN with OADP3)



**OPTZWB**  
Wall Bracket (included)



**OPTZWB2**  
Wall Bracket



**OPTZGN**  
Gooseneck Mount



**OADP3**  
Adaptor Plate (for OPTZGN)



**KBDPTZ1**  
Keyboard Controller



**IPPOEINJ25**  
25W PoE Injector



**PSDC24**  
12VDC Power Supply

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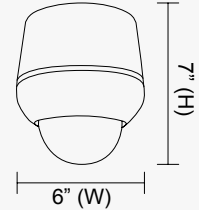
## Indoor/Outdoor PTZ IP Camera

**OPTZ33D5W** 3.94-46.05mm 12x optical zoom lens, white housing

### Features

- 12x optical zoom with 16x digital zoom
- Supports H.264 and MJPEG codecs
- Supports up to D1 resolution @ 30fps
- 2-way audio communication
- IP66 compliant
- ONVIF Profile S listed\*
- 1 year warranty

**IP** **2-WAY AUDIO**



### Camera Specifications

Image Sensor .....1/3" Sony Super HAD™ CCD  
 Maximum Resolution .....704x480  
 Minimum Illumination .....0.2 lux  
 White Balance .....ATW / AWB / Indoor / Outdoor  
 WDR/BLC .....BLC  
 DNR .....On / Off (adjustable)

### Video Specifications

Supported Resolutions ...704x480 / 640x480 / 704x240 /  
 352x240 / 176x112 @ 30fps  
 Compression .....H.264, MJPEG  
 Bitrate Control .....VBR, CBR  
 Multiple Streaming .....5 simultaneous profiles

### Audio Specifications

Mono Input .....64Kbps G.711  
 Mono Output .....64Kbps G.711

### PTZ Specifications

Pan Range .....360° endless  
 Pan Speed .....Preset: Max. 250°/sec.,  
 Manual: Max. 150°/sec (64 steps)  
 Tilt Range .....-2° - 90°  
 Tilt Speed .....Preset: Max. 250°/sec.,  
 Manual: Max. 150°/sec (64 steps)  
 Presets .....165 positions  
 Tour .....Max. 8 programmable group tours  
 Privacy Zone .....4  
 Auto Pan .....Programmable auto scan  
 Pattern .....8 programmable patterns (total 480 sec.)  
 Sector .....8 selectable sectors with 16 characters  
 Protocol .....Pelco-D, Pelco-P

### External Terminal Specifications

Ethernet .....10/100 Mbps, RJ-45  
 Alarm .....2 sensor inputs, 1 relay outputs (terminal block)  
 Video .....Terminal block (D1 analog output)

### External Terminal Specifications (continued)

Audio .....1 mic in, 1 line out (terminal block)  
 Control .....RS-485 for external controller  
 Power .....DC 12V (terminal block)

### Network Specifications

Protocols .....IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP,  
 HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS  
 DDNS support .....Speco DDNS (free of charge)  
 Security .....User ID & Password protection, IP address filtering,  
 HTTPS, digest authentication, user access log  
 User Access .....8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE .....PoE+ (IEEE 802.3at)  
 Analytics .....Motion detection (3 regions), audio detection  
 Alarm Triggers .....Analytics & sensor input  
 Alarm Events .....FTP video file upload, email image upload,  
 SD card recording, alarm out  
 Video Buffer .....Configurable pre-record & post-record  
 Image Settings .....Text overlay, privacy mask

### Client Specifications

Web Browser Support .....Windows (Internet Explorer 8 and up)  
 Mobile Apps .....Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application .....Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply .....12VDC (power supply not included)  
 Power Consumption .....10W  
 Operating Temperature...14° F – 122° F  
 Operating Humidity .....8% – 80% RH  
 Unit Dimensions .....6" (W) x 7" (H)  
 Unit Weight .....4.5 lbs.  
 Certifications .....FCC, RoHS  
 Included in Package .....Unit, CD (manual, software), accessories

### Optional Accessories

							
<b>KBDPTZ1</b> Keyboard Controller	<b>OPTZWB</b> Wall Mount Bracket	<b>OPTZPM</b> Pole Mount Adaptor (with OPTZWB or OPTZGN and adaptor plate OADP2)	<b>OPTZCM</b> Corner Mount Adaptor (with OPTZWB or OPTZGN and adaptor plate OADP2)	<b>OPTZGN</b> Gooseneck Mount (with adaptor plate OADP2)	<b>OADP2</b> Adaptor Plate (for OPTZGN)	<b>OPTZDFM3</b> Flush Mount Bracket	<b>PSDC24</b> 12VDC Power Supply

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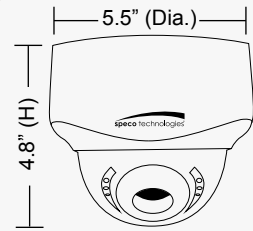


## Full HD 1080p 2MP Indoor Dome IP Camera

**O2DP14** 3-9mm auto iris varifocal motorized lens, dark grey housing

### Features

- EZ Focus: motorized pan, tilt & 3x zoom lens with auto focus for completely hassle-free remote focusing
- Supports up to Full HD 1080p @ 60fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 65 ft. (depending on scene reflection)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor	Progressive scan 1/2.8" CMOS, 2.0MP
Maximum Resolution	1920x1080
Minimum Illumination	F1.2, Color: 0.05 lux, BW: 0.01 lux
IR Range	65' (depending on scene reflection)
Focus	Motorized auto focus
White Balance	Automatic, Manual, ATW
Exposure Control	Yes
Digital Slow Shutter	Yes
De-Fog	Yes
WDR/BLC	Both
Day/Night	IR cut filter
DNR	2D+3D

### Video Specifications

Supported Resolutions	1920x1080 / 1280x720 @ 60fps or 30fps
Compression	H.264 (HP/MP), MJPEG
Bitrate Control	VBR, CBR
Multiple Streaming	2 simultaneous streams

### Audio Specifications

Mono Input	64Kbps G.711
Mono Output	64Kbps G.711

### External Terminal Specifications

Ethernet	10/100 Mbps
Alarm	1 sensor input, 1 output (terminal block)
Video	BNC out
Audio	1 input, 1 output (terminal block)
Power	2-pin terminal block
Storage	Micro SD slot

### Network Specifications

Protocols	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour
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### Network Specifications (continued)

DDNS support	Speco DDNS (free of charge)
Security	User ID & Password protection, IP address filtering, HTTPS
User Access	20 simultaneous users. Performance may vary depending on resolution and number of connections

### System Specifications

PoE	Standard (IEEE 802.3af)
Analytics	Motion detection (3 regions), tampering alarm, face detection
Alarm Triggers	Motion, sensor input, tamper detection, face detection, audio detection
Alarm Events	FTP video/image file upload, email image upload, micro SD card recording, relay out
Video Buffer	Configurable pre-record & post-record (5/5 sec)
Image Settings	Privacy mask

### Client Specifications

Web Browser Support	Windows (Internet Explorer 8 and up)
PC Application	SecureGuard®

### Operating & Unit Specifications

Power Supply	PoE, 12VDC (power supply not included)
Power Consumption	10.4W (PoE), 8.7W (12VDC)
Operating Temperature	32° F – 113° F
Operating Humidity	0% – 80% RH
Unit Dimensions	4.8" (H) x 5.5" (Dia.)
Unit Weight	1.34 lbs.
Certifications	FCC, UL, RoHS
Included in Package	Unit, CD (manual, software), mounting template sheet, mounting screws, mounting plate, BNC cable

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### Optional Accessories



## Full HD 1080p 2MP Indoor Dome IP Camera

**O2DP8** 3.6-16mm auto iris varifocal lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 49' (depending on scene reflection)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor	Progressive scan 1/2.9" CMOS, 2.0MP
Maximum Resolution	1920x1080
Minimum Illumination	F1.4, 0.12 lux (IR on – 0 lux)
IR LEDs	18
IR Range	49' (depending on scene reflection)
White Balance	Automatic
Exposure Control	Yes
Digital Slow Shutter	Yes
WDR/BLC	WDR
Day/Night	IR-cut filter
DNR	2D/3D

### Video Specifications

Supported Resolutions	1920x1080 @ 30fps / 1280x720 @ 30fps
Compression	H.264 (HP/MP/BP), MJPEG
Bitrate Control	VBR, CBR
Multiple Streaming	5 simultaneous profiles

### Audio Specifications

Mono Input	64Kbps G.711 / 32Kbps G.726
Mono Output	64Kbps G.711

### External Terminal Specifications

Ethernet	10/100 Mbps
Alarm	1 sensor input, 1 output
Video	Analog test output
Audio	1 mic in, 1 line out (3.5mm)
Power	DC jack
Storage	Micro SD slot

### Network Specifications

Protocols	IPv4, IPv6, TCP, UDP, IGMP, ICMP, ICMPv6, ARP, RARP, PPPoE, RTCP, RTP, RTSP, SDP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS, DynDNS, SOCKS
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### Network Specifications (continued)

DDNS Support	Speco DDNS (free of charge)
Security	User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log
User Access	8 simultaneous users at D1 resolution Number of users may vary depending on resolution

### System Specifications

PoE	Standard (IEEE 802.3af)
Analytics	Motion detection (3 regions), audio detection
Alarm Triggers	Analytics & sensor input
Alarm Events	FTP video file upload, email image upload, micro SD card recording, alarm out
Video Buffer	Configurable pre-record & post-record
Image Settings	Text overlay, privacy mask

### Client Specifications

Web Browser Support	Windows (Internet Explorer 8 and up)
Mobile Apps	Speco OnSIP (iPhone®, iPad® and Android™)
PC Application	Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply	PoE, 12VDC (power supply not included)
Power Consumption	6W with IR
Operating Temperature	32° F – 113° F
Operating Humidity	8% – 80% RH
Unit Dimensions	3.62" (H) x 5.11" (Dia.)
Unit Weight	1 lb.
Certifications	FCC, RoHS
Included in Package	Unit, CD (manual, software), mounting screws

### Optional Accessories



**INTMWW**  
Indoor  
Wall Mount



**DFM**  
Tile Ceiling  
Flush Mount



**IPPOEINJ1295**  
12.95W  
PoE Injector



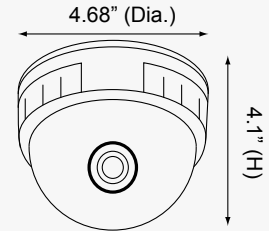
**PSW5**  
12VDC  
Power Supply

## Full HD 1080p 2MP Indoor Dome IP Camera

**VIP2D1M** 3-9mm auto iris varifocal motorized lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Motorized lens for remote focusing
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.7" CMOS, 2.0MP  
 Maximum Resolution .... 1920x1080  
 Minimum Illumination.... F1.2, Color: 0.9 lux; BW: 0.2 lux  
 White Balance ..... Automatic, Incandescent, Fluorescent, Outdoor  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... BLC  
 Day/Night ..... IR cut filter  
 DNR ..... 2D

### Video Specifications

Supported Resolutions ... 1920x1080 / 1280x1024 / 1280x720 / 704x576 / 704x480 / 640x480 / 352x288 / 352x240 / 320x240 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 3 simultaneous profiles

### Audio Specifications

Mono Input ..... N/A  
 Mono Output ..... N/A

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... 3.5mm jack (test monitor)  
 Audio ..... N/A  
 Power ..... 2-pin terminal block  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, ARP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, QoS, Zeroconf, Bonjour

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### Network Specifications (continued)

DDNS support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS  
 User Access ..... 10 simultaneous users  
 Performance may vary depending on resolution and number of connections

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers ..... Motion, sensor input, on boot, network loss, manual  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording, HTTP server, alarm out, boost  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support ... Windows (Internet Explorer 8 and up, Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... PoE, 80mA / 12VDC, 340mA  
 Operating Temperature ... 14° F – 113° F  
 Operating Humidity ..... 0% – 90% RH  
 Unit Dimensions ..... 4.1" (H) x 4.68" (Dia.)  
 Unit Weight ..... 10 oz.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting template sheet, mounting screws

### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



**PSW5**  
12VDC  
Power Supply



**VIPRC**  
Remote Control

## HD 1.3MP/720p Indoor Dome IP Camera

**VIP1D1** 3-9mm auto iris varifocal lens, white housing

### Features

- Supports up to 1.3 megapixel resolution (1280x1024) or HD 720p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.7" CMOS, 2.0MP  
 Maximum Resolution ..... 1280x720  
 Minimum Illumination ..... F1.2, Color: 2.5 lux; BW: 0.2 lux  
 White Balance ..... Automatic, Incandescent, Fluorescent, Outdoor  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... BLC  
 Day/Night ..... IR cut filter  
 DNR ..... 2D

### Video Specifications

Supported Resolutions .... 1280x1024 / 1280x720 / 704x576 / 704x480 /  
 640x480 / 352x288 / 352x240 / 320x240 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 3 simultaneous profiles

### Audio Specifications

Mono Input ..... N/A  
 Mono Output ..... N/A

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... 2-pin header (test monitor)  
 Audio ..... N/A  
 Power ..... 2-pin terminal block  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, ARP, RTCP, RTP, RTSP,  
 HTTP, HTTPS, SMTP, FTP, DHCP, UPnP,  
 QoS, Zeroconf, Bonjour  
 DDNS Support ..... Speco DDNS (free of charge)

### Network Specifications (continued)

Security ..... User ID & Password protection,  
 IP address filtering, HTTPS  
 User Access ..... 10 simultaneous users  
 Performance may vary depending on  
 resolution and number of connections

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers ..... Motion, sensor input, on boot, network loss, manual  
 Alarm Events ..... FTP video file upload, email image upload,  
 micro SD card recording, HTTP server,  
 alarm out, boost  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support ... Windows (Internet Explorer 8 and up,  
 Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... PoE, 80mA / 12VDC, 340mA  
 Operating Temperature ... 32° F – 113° F  
 Operating Humidity ..... 0% – 90% RH  
 Unit Dimensions ..... 4.1" (H) x 4.68" (Dia.)  
 Unit Weight ..... 10 oz.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software),  
 mounting template sheet, mounting screws

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### Optional Accessories

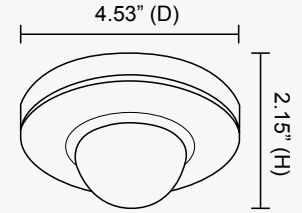


## Full HD 1080p 2MP Indoor Mini-Dome IP Camera

**VIP2P1** 3.7mm fixed lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- Multiple web browser support
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor .....	Progressive scan 1/2.8" CMOS, 2.0MP
Maximum Resolution .....	1920x1080
Minimum Illumination .....	F1.8, 1.6 lux
White Balance .....	Automatic, Incandescent, Fluorescent, Outdoor
Exposure Control .....	Yes
Digital Slow Shutter .....	Yes
WDR/BLC .....	BLC
Day/Night .....	Digital
DNR .....	2D

### Video Specifications

Supported Resolutions .....	1920x1080, 1280x1024, 1280x720, 704x576, 704x480, 640x480, 352x288, 352x240, 320x240 @ 30fps
Compression .....	H.264 (HP/MP/BP), MPEG4 (SP), MJPEG
Bitrate Control .....	VBR, CBR
Multiple Streaming .....	3 simultaneous profiles

### Audio Specification

Mono Input .....	N/A
Mono Output .....	N/A

### External Terminal Specification

Ethernet .....	10/100 Mbps
Alarm .....	1 sensor input, 1 output
Video .....	Analog output (3.5mm)
Audio .....	N/A
Power .....	DC Jack
Storage .....	Micro SD card slot

### Network Specifications

Protocols .....	IPv4, IPv6, TCP, UDP, ARP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, QoS, Zeroconf, Bonjour
-----------------	--

### Network Specifications (continued)

DDNS Support .....	Speco DDNS (free of charge)
Security .....	User ID & Password protection, IP address filtering, HTTPS
User Access .....	10 simultaneous users Performance may vary depending on resolution and number of connections

### System Specifications

PoE .....	Standard (IEEE 802.3af)
Analytics .....	Motion detection (8 regions)
Alarm Triggers .....	Motion, sensor input, on boot, network loss, manual
Alarm Events .....	FTP video file upload, email image upload, micro SD card recording, HTTP server, alarm out, boost
Video Buffer .....	Configurable pre-record & post-record
Image Settings .....	Privacy Mask

### Client Specifications

Web Browser Support .....	Windows (Internet Explorer 8 and up, Chrome, Firefox)
Mobile Apps .....	Speco VIP (iPhone®, iPad® and Android™)
PC Application .....	Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply .....	PoE, 12VDC (power supply not included)
Power Consumption .....	PoE, 93mA / 12VDC, 375mA
Operating Temperature .....	14° F – 104° F
Operating Humidity .....	0% – 80% RH
Unit Dimensions .....	2.15" (H) x 4.53" (D)
Unit Weight .....	8.5 oz.
Certifications .....	FCC, RoHS
Included in Package .....	Unit, CD (manual, software), mounting template sheet, mounting screws, alarm cable

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### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



**PSW5**  
12VDC  
Power Supply



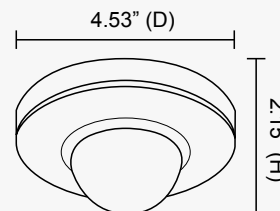
**VIPRC**  
Remote Control

## Full HD 1080p 2MP Indoor WiFi Mini Dome IP Camera

**VIP2P1N** 3.7mm fixed lens, white housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Supports WiFi network connection (IEEE 802.11b/g/n)
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- Multiple web browser support
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.8" CMOS, 2.0MP  
 Maximum Resolution .... 1920x1080  
 Minimum Illumination .... F1.8, 1.6 lux  
 White Balance ..... Automatic, Incandescent, Fluorescent, Outdoor  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... BLC  
 Day/Night ..... Digital  
 DNR ..... 2D

### Video Specifications

Supported Resolution... 1920x1080, 1280x1024, 1280x720, 704x576,  
 704x480, 640x480, 352x288, 352x240,  
 320x240 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 3 simultaneous profiles

### Audio Specifications

Mono Input ..... N/A  
 Mono Output ..... N/A

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... Analog output (3.5mm)  
 Audio ..... N/A  
 Power ..... DC jack  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, ARP, RTCP, RTP, RTSP,  
 HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, QoS,  
 Zeroconf, Bonjour

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### Network Specifications (continued)

WiFi ..... IEEE 802.11b/g/n  
 DDNS Support ..... Speco DDNS (free of charge)  
 Security ..... User ID & password protection,  
 IP address filtering, HTTPS  
 User Access ..... 10 simultaneous users  
 Performance may vary depending on  
 resolution and number of connections

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers ..... Motion, sensor input, on boot, network loss, manual  
 Alarm Events ..... FTP video file upload, email image upload,  
 micro SD card recording, HTTP server,  
 alarm out, boost  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support ..... Windows (Internet Explorer 8 and up,  
 Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... PoE, 93mA / 12VDC, 375mA  
 Operating Temperature .. 14° F – 104° F  
 Operating Humidity ..... 0% – 80% RH  
 Unit Dimensions ..... 2.15" (H) x 4.53" (D)  
 Unit Weight ..... 8.5 oz.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting template  
 sheet, mounting screws, alarm cable

### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



**PSW5**  
12VDC  
Power Supply



**VIPRC**  
Remote Control

## Full HD 1080p 2MP Indoor PTZ Camera

**O2PTZ34D5W** 4.7-94mm 20x optical zoom lens, white housing



### Features

- Supports Full HD 1080p @ 30fps
- Built-in PoE+ (IEEE 802.3at)
- 20x optical zoom with 12x digital zoom
- Supports H.264, MPEG4, and MJPEG codecs
- Simultaneous PTZ control via RS-485 and network
- 2-way audio communication
- SD card slot (card not included)
- ONVIF Profile S listed\*
- 1 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.8" CMOS, 2.0MP  
 Maximum Resolution ..... 1920x1080  
 Minimum Illumination ..... 0.3 lux  
 White Balance ..... Automatic  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... BLC  
 Day/Night ..... IR cut filter  
 DNR ..... Yes

### Video Specifications

Supported Resolutions .. 1920x1080 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 5 simultaneous profiles

### Audio Specifications

Mono Input ..... 64Kbps G.711 / 32Kbps G.726  
 Mono Output ..... 64Kbps G.711

### PTZ Specifications

Pan Range ..... 360° endless  
 Pan Speed ..... Manual: 0.5° - 200°/sec. (64 steps)  
 Tilt Range ..... -2° - 90°  
 Tilt Speed ..... Manual: 0.5° - 45°/sec. (64 steps)  
 Presets ..... 64 positions  
 Tour ..... Max. 8 programmable group tours  
 Privacy Zone ..... 24  
 Auto Pan ..... Programmable auto scan  
 Pattern ..... 8 programmable patterns (total 480 sec.)  
 Sector ..... 8 selectable sectors with 16 characters  
 Protocol ..... Pelco-D, Pelco-P

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 4 sensor inputs, 2 relay outputs  
 Video ..... Female BNC (D1 analog output)

### External Terminal Specifications (continued)

Audio ..... 1 mic in, 1 line out (3.5mm)  
 Control ..... RS-485 for external controller  
 Power ..... DC jack  
 Storage ..... SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS  
 DDNS support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access ..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE ..... PoE+ (IEEE 802.3at)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, SD card recording, alarm out  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Text overlay, privacy mask

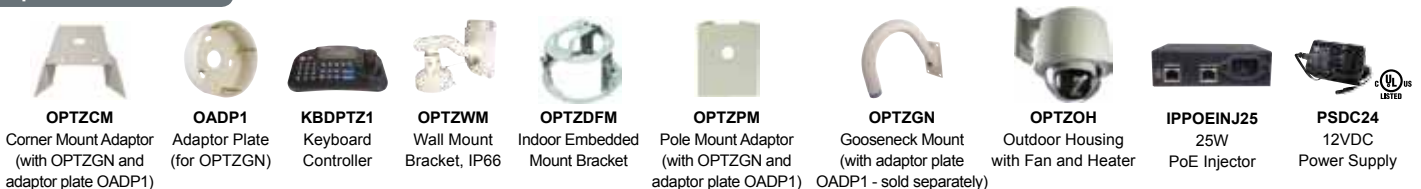
### Client Specifications

Web Browser Support .... Windows (Internet Explorer 8 and up)  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 12W  
 Operating Temperature .... 14° F – 122° F  
 Operating Humidity ..... 8% – 80% RH  
 Unit Dimensions ..... 6" (Dia.) x 8" (H)  
 Unit Weight ..... 4 lbs.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), accessories

### Optional Accessories



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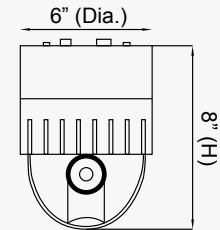


## Indoor PTZ IP Camera

**OPTZ36XI** 3.4-122.4mm 36x optical zoom lens, white housing

### Features

- Built-in PoE+ (IEEE 802.3at)
- 36x optical zoom with 12x digital zoom
- Supports H.264 and MJPEG codecs
- Supports up to D1 resolution @ 30fps
- 2-way audio communication
- SD card slot (card not included)
- ONVIF Profile S listed\*
- 1 year warranty



### Camera Specifications

Image Sensor ..... 1/4" Sony ExView HAD™ CCD  
 Maximum Resolution ..... 704x480  
 Minimum Illumination..... Normal: 0.1 lux; Night: 0.01 lux  
 WDR/BLC ..... BLC  
 Day/Night..... IR cut filter

### Video Specifications

Supported Resolutions ..... 704x480 / 640x480 / 704x240 / 352x240 / 176x112 @ 30fps  
 Compression ..... H.264, MJPEG  
 Bitrate Control..... VBR, CBR  
 Multiple Streaming..... 5 simultaneous profiles

### Audio Specifications

Mono Input..... 64Kbps G.711  
 Mono Output..... 64Kbps G.711

### PTZ Specifications

Pan Range..... 360° endless  
 Pan Speed..... Manual: 0.5° - 200°/sec. (64 steps)  
 Tilt Range ..... -2° - 90°  
 Tilt Speed ..... Manual: 0.5° - 45°/sec. (64 steps)  
 Presets ..... 165 positions  
 Tour ..... Max. 8 programmable group tours  
 Privacy Zone..... 24  
 Auto Pan..... Programmable auto scan  
 Pattern ..... 8 programmable patterns (total 480 sec.)  
 Sector ..... 8 selectable sectors with 16 characters  
 Protocol ..... Pelco-D, Pelco-P

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm ..... 4 sensor inputs, 2 relay outputs  
 Video ..... Female BNC (D1 analog output)  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Control..... RS-485 for external controller

### External Terminal Specifications (continued)

Power ..... DC jack  
 Storage..... SD slot

### Network Specifications

Protocols..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS  
 DDNS support ..... Speco DDNS (free of charge)  
 Security..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE..... PoE+ (IEEE 802.3at)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, SD card recording, alarm out  
 Video Buffer..... Configurable pre-record & post-record  
 Image Settings..... Text overlay

### Client Specifications

Web Browser Support ..... Windows (Internet Explorer 8 and up)  
 Mobile Apps..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 12W  
 Operating Temperature..... 14° F – 122° F  
 Operating Humidity..... 8% – 80% RH  
 Unit Dimensions ..... 8" (H) x 6" (Dia.)  
 Unit Weight ..... 4 lbs.  
 Certifications..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), accessories

### Optional Accessories



**OPTZDFM**  
Indoor Embedded Mount Bracket



**OPTZGN**  
Gooseneck Mount (with adaptor plate OADP1 - sold separately)



**OPTZOH**  
Outdoor Housing with Fan & Heater



**KBDPTZ1**  
Keyboard Controller



**OPTZWM**  
Wall Mount Bracket, IP66



**OPTZPM**  
Pole Mount Adaptor (with OPTZGN and adaptor plate OADP1)



**OPTZCM**  
Corner Mount Adaptor (with OPTZGN and adaptor plate OADP1)



**OADP1**  
Adaptor Plate (for OPTZGN)



**IPPOEINJ25**  
25W PoE Injector



**PSDC24**  
12VDC Power Supply

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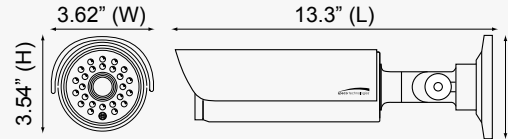


## Full HD 1080p 2MP Bullet IP Camera

**O2B16** 3-9mm auto iris varifocal motorized lens, dark grey housing

### Features

- EZ Focus: Motorized 3x zoom lens with auto focus for completely hassle-free remote focusing
- Supports up to Full HD 1080p @ 60fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 98 ft. (depending on scene reflection)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP66 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor.....	Progressive scan 1/2.8" CMOS, 2.0MP
Maximum Resolution .....	1920x1080
Minimum Illumination .....	F1.2, Color: 0.05 lux, BW: 0.01 lux
IR Range .....	98 ft. (depending on scene reflection)
Focus.....	Motorized auto focus
White Balance .....	Automatic, Manual, ATW
Exposure Control .....	Yes
Digital Slow Shutter.....	Yes
De-Fog .....	Yes
WDR/BLC.....	Both
Day/Night .....	IR cut filter
DNR.....	2D+3D

### Video Specifications

Supported Resolutions...	1920x1080 / 1280x720 @ 60fps or 30fps
Compression .....	H.264 (HP/MP), MJPEG
Bitrate Control .....	VBR, CBR
Multiple Streaming .....	2 simultaneous streams

### Audio Specifications

Mono Input .....	64Kbps G.711
Mono Output .....	64Kbps G.711

### External Terminal Specifications

Ethernet.....	10/100 Mbps
Alarm .....	1 sensor input, 1 output (terminal block)
Video .....	BNC out
Audio .....	1 input, 1 output (terminal block)
Power .....	2-pin terminal block
Storage.....	Micro SD slot

### Network Specifications

Protocols .....	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour
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### Network Specifications (continued)

DDNS support.....	Speco DDNS (free of charge)
Security .....	User ID & Password protection, IP address filtering, HTTPS
User Access .....	20 simultaneous users. Performance may vary depending on resolution and number of connections

### System Specifications

PoE.....	Standard (IEEE 802.3af)
Analytics.....	Motion detection (3 regions), tampering alarm, face detection
Alarm Triggers.....	Motion, sensor input, tamper detection, face detection, audio detection
Alarm Events.....	FTP video/image file upload, email image upload, micro SD card recording, relay out
Video Buffer.....	Configurable pre-record & post-record (5/5 sec)
Image Settings .....	Privacy mask

### Client Specifications

Web Browser Support...	Windows (Internet Explorer 8 and up)
PC Application.....	SecureGuard®

### Operating & Unit Specifications

Power Supply .....	PoE, 12VDC (power supply not included)
Power Consumption.....	9.6W (PoE), 9.1W (12VDC)
Operating Temperature ..	14° F – 122° F
Operating Humidity .....	0% – 80% RH
Unit Dimensions .....	3.62" (W) x 3.54" (H) x 13.3" (L)
Unit Weight.....	3.74 lbs.
Certifications .....	FCC, UL, RoHS
Included in Package.....	Unit, CD (manual, software), mounting template sheet, mounting screws, BNC cable

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### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



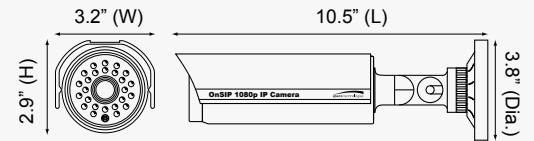
**PSW5**  
12VDC  
Power Supply

## Full HD 1080p 2MP Indoor/Outdoor Bullet IP Camera

**O2B2** 3.6-16mm auto iris varifocal lens, dark grey housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Built-in IR LEDs
- IR Range: 90' (depending on scene reflection)
- Wide dynamic range (WDR) operation
- External controls for zoom and focus
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP66 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor	Progressive scan 1/2.9" CMOS, 2.0MP
Maximum Resolution	1920x1080
Minimum Illumination	F1.4, 0.12 lux (IR on – 0 lux)
IR LEDs	40
IR Range	90' (depending on scene reflection)
White Balance	Automatic
Exposure Control	Yes
Digital Slow Shutter	Yes
WDR/BLC	WDR
Day/Night	Yes, IR cut filter
DNR	2D/3D

### Video Specifications

Supported Resolutions	1920x1080 @ 30fps / 1280x720 @ 30fps
Compression	H.264 (HP/MP/BP), MJPEG
Bitrate Control	VBR, CBR
Multiple Streaming	5 simultaneous profiles

### Audio Specifications

Mono Input	64Kbps G.711 / 32Kbps G.726
Mono Output	64Kbps G.711

### External Terminal Specifications

Ethernet	10/100 Mbps
Alarm	1 sensor input, 1 output
Video	Analog test output
Audio	1 mic in, 1 line out (3.5mm)
Power	DC jack
Storage	Micro SD slot

### Network Specifications

Protocols	IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP
DDNS support	Speco DDNS (free of charge)

### Network Specifications (continued)

Security	User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log
User Access	8 simultaneous users at D1 resolution, number of users may vary depending on resolution

### System Specifications

PoE	Standard (IEEE 802.3af)
Analytics	Motion detection (3 regions), audio detection
Alarm Triggers	Analytics & sensor input
Alarm Events	FTP video file upload, email image upload, micro SD card recording, alarm out
Video Buffer	Configurable pre-record & post-record
Image Settings	Text overlay, privacy mask

### Client Specifications

Web Browser Support	Windows (Internet Explorer 8 and up)
Mobile Apps	Speco ONSIP (iPhone®, iPad® and Android™)
PC Application	Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply	PoE, 12VDC (power supply not included)
Power Consumption	6W
Operating Temperature	-13° F – 122° F
Operating Humidity	8% – 80% RH
Unit Dimensions	3.2" (W) x 2.9" (H) x 10.5" (L); Base diameter 3.8"
Unit Weight	2.6 lbs.
Certifications	FCC, RoHS
Included in Package	Unit, CD (manual, software), mounting screws, L wrench

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### Optional Accessories



**O2JBB**  
Junction Box



**O2CM**  
Corner Mount Adaptor



**IPPOEINJ1295**  
12.95W PoE Injector



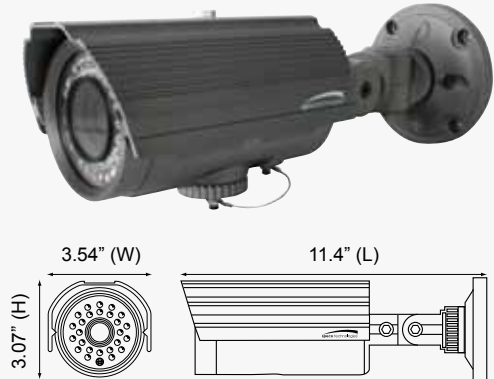
**PSW5**  
12VDC Power Supply

## Full HD 1080p 2MP Indoor/Outdoor Bullet IP Camera

**O2IR56B1** 2.8-10mm auto iris varifocal lens, dark grey housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Built-in IR LEDs
- IR Range: 90' (depending on scene reflection)
- Wide dynamic range (WDR) operation
- External controls for zoom and focus
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- IP67 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.9" CMOS, 2.0MP  
 Maximum Resolution ..... 1920x1080  
 Minimum Illumination ..... F1.6, 0.5 lux (IR on – 0.01 lux)  
 IR LEDs ..... 42  
 IR Range ..... 90' (depending on scene reflection)  
 White Balance ..... AWB / ATW / Manual  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... Both, WDR / BLC  
 Day/Night ..... Yes  
 DNR ..... 3D

### Video Specifications

Supported Resolutions .... 1920x1080 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 5 simultaneous profiles

### Audio Specifications

Mono Input ..... 64Kbps G.711 / 32Kbps G.726  
 Mono Output ..... 64Kbps G.711

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... Analog test output  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Power ..... DC jack  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, IGMP, ICMP, ICMPv6, ARP, RARP, PPPoE, RTCP, RTP, RTSP, SDP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS, DynDNS, SOCKS

### Network Specifications (continued)

DDNS Support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access ..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording, alarm out  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Text overlay, privacy mask

### Client Specifications

Web Browser Support ..... Windows (Internet Explorer 8 and up)  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 8W with IR  
 Operating Temperature ..... -15° F – 113° F  
 Operating Humidity ..... 8% – 80% RH  
 Unit Dimensions ..... 3.54" (W) x 3.07" (H) x 11.4" (L);  
 Mounting plate diameter 3.9"  
 Unit Weight ..... 2.7 lbs.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting screws, L wrench, mounting plate, test monitor cable

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### Optional Accessories



## Full HD 1080p 2MP Indoor/Outdoor Bullet IP Camera with Built-In Heater

**VIP2B1M** 3-9mm auto iris varifocal motorized lens, dark grey housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 80' (depending on scene reflection)
- Motorized lens for remote focusing
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- IP67 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.8" CMOS, 2.0MP  
 Maximum Resolution ..... 1920x1080  
 Minimum Illumination ..... F1.2, Color: 0.2 lux, BW: 0 lux  
 IR LEDs ..... 32  
 IR Range ..... 80' (depending on scene reflection)  
 Focus ..... Motorized remote focus  
 White Balance ..... Automatic, Manual  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... BLC  
 Day/Night ..... IR cut filter  
 DNR ..... 2D

### Video Specifications

Supported Resolutions ..... 1920x1080 / 1280x1024 / 1280x720 / 704x576 / 704x480 / 640x480 / 320x240 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 3 simultaneous profiles

### Audio Specifications

Mono Input ..... N/A  
 Mono Output ..... N/A

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... N/A  
 Video ..... 3.5mm jack (test monitor)  
 Audio ..... N/A  
 Power ..... 2-pin terminal block  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, Bonjour

### Network Specifications (continued)

DDNS support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS  
 User Access ..... 10 simultaneous users  
 Performance may vary depending on resolution and number of connections

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers ..... Motion, on boot, network loss, manual  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording, HTTP server, boost  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support ..... Windows (Internet Explorer 8 and up, Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 24W w/ heater & IR (heater only available with 12VDC) 6W w/ IR (heater off)  
 Operating Temperature ..... -4° F – 122° F / -22° F – 122° F (with heater)  
 Operating Humidity ..... 0% – 90% RH  
 Unit Dimensions ..... 3.87" (W) x 6.63" (H) x 11.18" (L)  
 Unit Weight ..... 2.5 lbs.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting template sheet, mounting screws

### Free Apps with support for view on most smart devices

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### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



**VIPRC**  
Remote Control



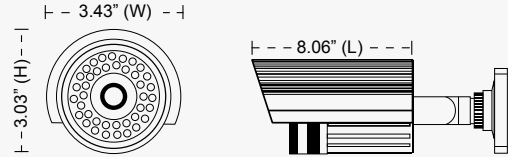
**PSDC24**  
12VDC  
Power Supply

## Full HD 1080p 2MP Indoor/Outdoor Bullet IP Camera

**O2B5** 3.7mm fixed lens, dark grey housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 82' (depending on scene reflection)
- Wide dynamic range (WDR) operation
- 2-way audio communication
- Micro SD card slot (card not included)
- 12VDC operation
- IP66 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.9" CMOS, 2.0MP  
 Maximum Resolution ..... 1920x1080  
 Minimum Illumination ..... F1.4, 0.12 lux (IR on – 0 lux)  
 S/N Ratio ..... 50dB  
 IR LEDs ..... 36  
 IR Range ..... 82' (depending on scene reflection)  
 White Balance ..... Automatic  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... WDR  
 Day/Night ..... IR-cut filter  
 DNR ..... 2D/3D

### Video Specifications

Supported Resolutions .. 1920x1080 @ 30fps / 1280x720 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 5 simultaneous profiles

### Audio Specifications

Mono Input ..... 64Kbps G.711 / 32Kbps G.726  
 Mono Output ..... 64Kbps G.711

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... 1 sensor input  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Power ..... DC jack  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, IGMP, ICMP, ICMPv6, ARP, RARP, PPPoE, RTCP, RTP, RTSP, SDP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS, DynDNS, SOCKS

### Network Specifications (continued)

DDNS support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access ..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Text overlay, privacy mask, de-interlace filter

### Client Specifications

Web Browser Support .... Internet Explorer 8 and up  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 6W with IR  
 Operating Temperature ... -4° F – 122° F  
 Operating Humidity ..... 8% – 80% RH  
 Unit Dimensions ..... 3.43" (W) x 3.03" (H) x 8.06" (L)  
 Unit Weight ..... 1.40 lbs.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), L wrench, mounting screws

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### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



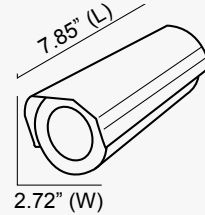
**PSW5**  
12VDC  
Power Supply

## Full HD 1080p 2MP Indoor/Outdoor Bullet IP Camera

**VIP2B3** 3.7mm fixed lens, dark grey housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- True Day/Night operation (IR cut filter)
- Built-in IR LEDs
- IR Range: 65' (depending on scene reflection)
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- IP67 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor.....Progressive scan 1/2.8\" CMOS, 2.0MP  
 Maximum Resolution ... 1920x1080  
 Minimum Illumination ... F1.8, Color: 1.6 lux, BW: 0 lux  
 IR LEDs.....20  
 IR Range .....65' (depending on scene reflection)  
 White Balance .....Automatic, Manual  
 Exposure Control ..... Yes  
 Digital Slow Shutter..... Yes  
 WDR/BLC.....BLC  
 Day/Night .....IR cut filter  
 DNR.....2D

### Video Specifications

Supported Resolutions.. 1920x1080 / 1280x1024 / 1280x720 / 704x576 /  
 704x480 / 640x480 / 320x240 @ 30fps  
 Compression .....H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control..... VBR, CBR  
 Multiple Streaming..... 3 simultaneous profiles

### Audio Specifications

Mono Input .....N/A  
 Mono Output .....N/A

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm..... 1 sensor input, 1 output  
 Video .....3.5mm jack (test monitor)  
 Audio .....N/A  
 Power .....2-pin terminal block  
 Storage.....Micro SD slot

### Network Specifications

Protocols .....IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP,  
 HTTPS, SMTP, FTP, DHCP, Bonjour

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### Network Specifications (continued)

DDNS support..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS  
 User Access ..... 10 simultaneous users  
 Performance may vary depending on resolution and number of connections

### System Specifications

PoE..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers..... Motion, sensor input, on boot, network loss, manual  
 Alarm Events..... FTP video file upload, email image upload, micro SD card recording, HTTP server, alarm out, boost  
 Video Buffer..... Configurable pre-record & post-record  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support.....Windows (Internet Explorer 8 and up, Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC, 24VAC (power supply not included)  
 Power Consumption..... 5W with IR  
 Operating Temperature...-4° F – 122° F  
 Operating Humidity ..... 0% – 90% RH  
 Unit Dimensions ..... 2.72" (W) x 7.85" (L)  
 Unit Weight..... 1.1 lbs.  
 Certifications ..... FCC, RoHS  
 Included in Package..... Unit, CD (manual, software), mounting screws

### Optional Accessories



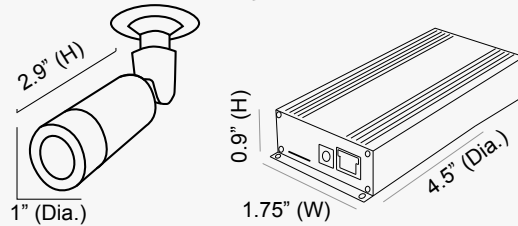
## Full HD 1080p 2MP Indoor/Outdoor Miniature Bullet IP Camera

**O2MB1** 3.7mm fixed lens, dark grey housing

**O2MB1W** 3.7mm fixed lens, white housing

### Features

- Separate camera and encoder units allow for flexibility and easy placement
- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor.....Progressive scan 1/2.7" CMOS, 2.0MP  
 Maximum Resolution .....1920x1080  
 Minimum Illumination .....F1.4, 0.12 lux  
 S/N Ratio.....39dB  
 White Balance.....Automatic  
 Digital Slow Shutter.....Yes  
 WDR/BLC.....WDR  
 DNR.....2D/3D

### Video Specifications

Supported Resolutions....1920x1080 @ 30fps / 1280x720 @ 30fps  
 Compression.....H.264 (HP/MP/BP), MJPEG  
 Bitrate Control .....VBR, CBR  
 Multiple Streaming .....5 simultaneous profiles

### Audio Specifications

Mono Input .....64Kbps G.711 / 32Kbps G.726  
 Mono Output .....64Kbps G.711

### External Terminal Specifications

Ethernet.....10/100 Mbps  
 Alarm .....1 sensor input, 1 relay output  
 Audio .....1 mic in, 1 line out (3.5mm)  
 Power .....DC jack  
 Storage.....Micro SD slot

### Network Specifications

Protocols .....IPv4, TCP, UDP, RTCP, RTP, RTSP, HTTP, SMTP, FTP, DHCP, UPnP, NTP, DNS  
 DDNS support.....Speco DDNS (free of charge)  
 Security .....User ID & Password protection, IP address filtering, digest authentication, user access log

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### Network Specifications (continued)

User Access .....8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE.....Standard (IEEE 802.3af)  
 Analytics.....Motion detection (3 regions), audio detection  
 Alarm Triggers.....Analytics & sensor input  
 Alarm Events.....FTP video file upload, email image upload, micro SD card recording, alarm out  
 Video Buffer.....Configurable pre-record & post-record  
 Image Settings .....Text overlay, privacy mask

### Client Specifications

Web Browser Support....Windows (Internet Explorer 8 and up)  
 Mobile Apps.....Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application.....Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply.....PoE, 12VDC (power supply not included)  
 Power Consumption.....8W  
 Operating Temperature...32° F – 113° F  
 Operating Humidity .....8% – 80% RH  
 Unit Dimensions.....Camera: 1" (Dia.) x 2.9" (L)  
 Encoder Box: 1.75" (W) x 0.9" (H) x 4.5" (L)  
 Unit Weight.....14.40 oz.  
 Certifications .....FCC, RoHS  
 Included in Package.....Unit, CD (manual, software), screws

### Optional Accessories



**IPPOEINJ1295**  
12.95W  
PoE Injector



**PSW5**  
12VDC  
Power Supply



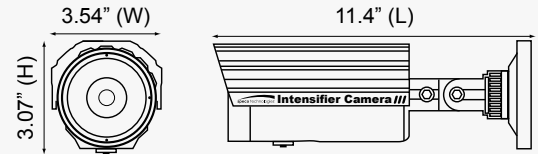
## Intensifier3® Indoor/Outdoor Bullet IP Camera

See Color In Almost Complete Darkness Without IR LEDs

**OINT56B1G** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- External controls for zoom and focus
- Supports up to D1 resolution @ 30fps
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- IP67 compliant
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor..... 1/3" Sony Super HAD II™ CCD  
 Maximum Resolution ..... 704x480  
 Minimum Illumination ..... CDS off: 0.15 lux, CDS on: 0.00002 lux  
 White Balance ..... ATW / Indoor / Outdoor / Manual  
 Exposure Control ..... Yes  
 Digital Slow Shutter..... Yes  
 WDR/BLC..... BLC  
 Day/Night ..... Yes  
 DNR..... On / Off  
 Intensifier3® ..... Auto / Off (selectable 2x – 512x)

### Video Specifications

Supported Resolutions..... 704x480 / 640x480 / 704x240 / 352x240 / 176x112 @ 30fps  
 Compression ..... H.264, MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 5 simultaneous profiles

### Audio Specifications

Mono Input ..... 64Kbps G.711  
 Mono Output ..... 64Kbps G.711

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 relay output  
 Video ..... Analog test output  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Power ..... DC jack

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS

### Network Specifications (continued)

DDNS Support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access ..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, alarm out

Video Buffer ..... Configurable pre-record & post-record  
 Image Settings..... Text overlay, privacy mask

### Client Specifications

Web Browser Support ..... Windows (Internet Explorer 8 and up)  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

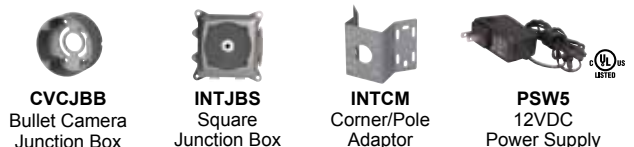
Power Supply ..... 12VDC (power supply not included)  
 Power Consumption ..... 6W  
 Operating Temperature..... -13° F – 122° F  
 Operating Humidity..... 8% – 80% RH  
 Unit Dimensions ..... 3.54" (W) x 3.07" (H) x 11.4" (L);  
 Mounting plate diameter 3.9"  
 Unit Weight ..... 2.6 lbs.  
 Certifications..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting screws, L wrench, test monitor cable

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### Optional Accessories



## Full HD 1080p 2MP Traditional IP Camera

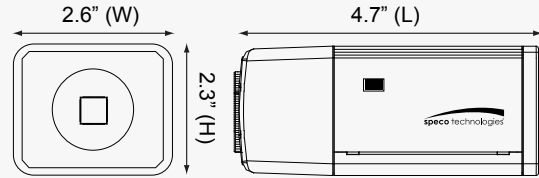
**O2T6** Compatible with CS type lenses, dark grey housing

### Features

- Supports up to Full HD 1080p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- Wide dynamic range (WDR) operation
- Supports H.264 and MJPEG codecs
- 2-way audio communication
- SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



lens not included



### Camera Specifications

Image Sensor ..... Progressive scan 1/2.9" CMOS, 2.0MP  
 Maximum Resolution ..... 1920x1080  
 Minimum Illumination..... F1.4, 0.12 lux  
 Recommended Lens ..... Varifocal 2.8-12mm, F1.6  
 White Balance ..... Automatic  
 Exposure Control..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... WDR  
 DNR..... 2D/3D

### Video Specifications

Supported Resolutions ... 1920x1080 @ 30fps / 1280x720 @ 30fps  
 Compression ..... H.264 (HP / MP / BP), MJPEG  
 Bitrate Control..... VBR, CBR  
 Multiple Streaming..... 5 simultaneous profiles

### Audio Specifications

Mono Input..... 64Kbps G.711 / 32Kbps G.726  
 Mono Output..... 64Kbps G.711

### External Terminal Specifications

Ethernet..... 10/100 Mbps  
 Alarm ..... 1 sensor input, 1 output  
 Video ..... Analog test output  
 Audio ..... 1 mic in, 1 line out (3.5mm)  
 Power ..... DC jack  
 Storage ..... SD slot

### Network Specifications

Protocols..... IPv4, IPv6, TCP, UDP, IGMP, ICMP, ICMPv6, ARP, RARP, PPPoE, RTCP, RTP, RTSP, SDP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, NTP, DNS, DynDNS, SOCKS

### Network Specifications (continued)

DDNS support ..... Speco DDNS (free of charge)  
 Security..... User ID & Password protection, IP address filtering, HTTPS, digest authentication, user access log  
 User Access..... 8 simultaneous users at D1 resolution  
 Number of users may vary depending on resolution

### System Specifications

PoE..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (3 regions), audio detection  
 Alarm Triggers ..... Analytics & sensor input  
 Alarm Events ..... FTP video file upload, email image upload, micro SD card recording, alarm out  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings..... Text overlay, privacy mask

### Client Specifications

Web Browser Support .... Windows (Internet Explorer 8 and up)  
 Mobile Apps ..... Speco OnSIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... PoE, 12VDC (power supply not included)  
 Power Consumption ..... 6W  
 Operating Temperature... 32° F – 113° F  
 Operating Humidity..... 8% – 80% RH  
 Unit Dimensions ..... 2.6" (W) x 2.3" (H) x 4.7" (L)  
 Unit Weight ..... 1 lb.  
 Certifications..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), mounting bracket, mounting screws

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### Optional Accessories



**VFMP2.812DC**  
2.8-12mm Lens  
Auto Iris



**VFMP2.812**  
2.8-12mm Lens  
Manual Iris



**IPPOEINJ1295**  
12.95W  
PoE Injector



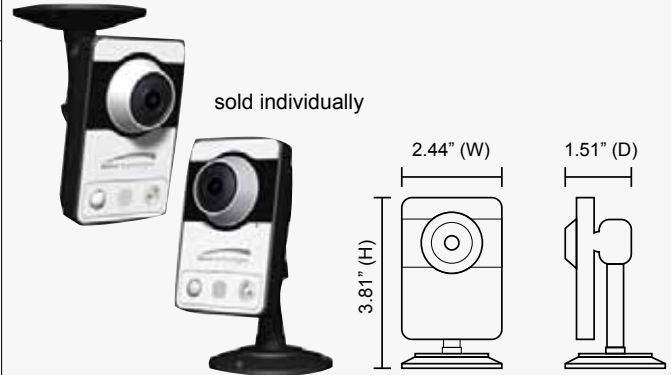
**PSW5**  
12VDC  
Power Supply

## HD 720p Indoor Cube IP Camera

**VIP2C1P** 2.6mm fixed lens, black and white housing

### Features

- Supports HD 720p @ 30fps
- Built-in standard PoE (IEEE 802.3af)
- PIR sensor & illumination LED
- Supports H.264, MPEG4, and MJPEG codecs
- 2-way audio communication with built-in microphone and speaker
- Digital Deterrent®
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor ..... Progressive scan 1/4" CMOS  
 Maximum Resolution ..... 1600x1200 @ 15fps or  
 1280x720 @ 30fps  
 Minimum Illumination ..... 1 lux (LED off); 0 lux (LED on)  
 White Balance ..... Automatic, Incandescent, Fluorescent, Outdoor  
 Exposure Control ..... Yes  
 Digital Slow Shutter ..... Yes  
 WDR/BLC ..... N/A  
 Day/Night ..... N/A  
 DNR ..... 2D

### Video Specifications

Supported Resolutions ... 1600x1200 @ 15fps 1280x1024 /  
 1280x720 / 800x600 / 704x576 /  
 704x480 / 640x480 / 352x288 /  
 352x240 / 320x240 @ 30fps  
 Compression ..... H.264 (HP/MP/BP), MPEG4 (SP), MJPEG  
 Bitrate Control ..... VBR, CBR  
 Multiple Streaming ..... 3 simultaneous profiles

### Audio Specifications

Mono Input ..... 64Kbps G.711  
 Mono Output ..... 64Kbps G.711

### External Terminal Specifications

Ethernet ..... 10/100 Mbps  
 Alarm ..... N/A  
 Video ..... N/A  
 Audio ..... Built-in mic/speaker  
 Power ..... 5VDC jack  
 Storage ..... Micro SD slot

### Network Specifications

Protocols ..... IPv4, IPv6, TCP, UDP, ARP, RTCP, RTP,  
 RTSP, HTTP, HTTPS, SMTP, FTP, DHCP,  
 UPnP, QoS, Zeroconf, Bonjour

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### Network Specifications (continued)

DDNS Support ..... Speco DDNS (free of charge)  
 Security ..... User ID & Password protection,  
 IP address filtering, HTTPS  
 User Access ..... 10 simultaneous users  
 Performance may vary depending on  
 resolution and number of connections

### System Specifications

PoE ..... Standard (IEEE 802.3af)  
 Analytics ..... Motion detection (8 regions)  
 Alarm Triggers ..... Motion, on boot, network loss, manual,  
 PIR, audio detection  
 Alarm Events ..... FTP video file upload, email image upload,  
 micro SD card recording, HTTP server,  
 boost, Digital Deterrent®, light  
 Video Buffer ..... Configurable pre-record & post-record  
 Image Settings ..... Privacy mask

### Client Specifications

Web Browser Support ... Windows (Internet Explorer 8 and up,  
 Chrome, Firefox)  
 Mobile Apps ..... Speco VIP (iPhone®, iPad® and Android™)  
 PC Application ..... Speco VMS, SecureGuard®

### Operating & Unit Specifications

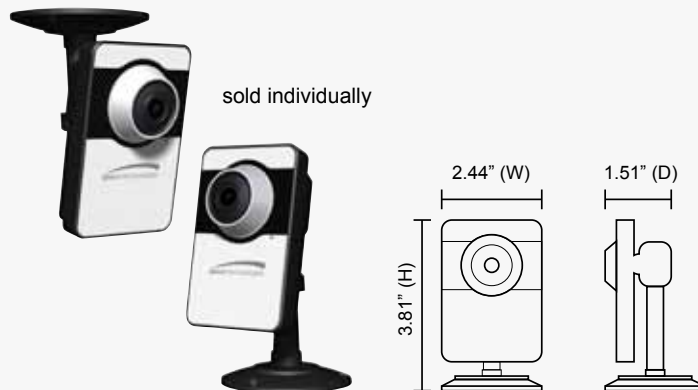
Power Supply ..... PoE, 5VDC (power supply included)  
 Power Consumption ..... PoE, 73mA / 5VDC, 600mA  
 Operating Temperature ... 32° F – 104° F  
 Operating Humidity ..... 0% – 90% RH  
 Unit Dimensions ..... 2.44" (W) x 3.81" (H) x 1.51" (D)  
 Unit Weight ..... 2.64 oz.  
 Certifications ..... FCC, RoHS  
 Included in Package ..... Unit, CD (manual, software), power supply,  
 mounting bracket, mounting screws

## HD 720p Indoor WiFi Cube IP Camera

**VIP2C1N** 2.6mm fixed lens, black and white housing

### Features

- Supports HD 720p @ 30fps
- Maximum resolution of 2.0 megapixel (1600x1200)
- Supports WiFi network connection (IEEE 802.11 b/g/n)
- Supports H.264, MPEG4, and MJPEG codecs
- Micro SD card slot (card not included)
- ONVIF Profile S listed\*
- 2 year warranty



### Camera Specifications

Image Sensor	Progressive scan 1/4" CMOS
Maximum Resolution	1600x1200 @ 15fps or 1280x720 @ 30fps
Minimum Illumination	1 lux
White Balance	Automatic, Incandescent, Fluorescent, Outdoor
Exposure Control	Yes
Digital Slow Shutter	Yes
WDR/BLC	N/A
Day/Night	N/A
DNR	2D

### Video Specifications

Supported Resolutions	1600x1200 @ 15fps 1280x1024 / 1280x720 / 800x600 / 704x576 / 704x480 / 640x480 / 352x288 / 352x240 / 320x240 @ 30fps
Compression	H.264 (HP/MP/BP), MPEG4 (SP), MJPEG
Bitrate Control	VBR, CBR
Multiple Streaming	3 simultaneous profiles

### Audio Specifications

Mono Input	N/A
Mono Output	N/A

### External Terminal Specifications

Ethernet	10/100 Mbps
Alarm	N/A
Video	N/A
Audio	N/A
Power	5VDC jack
Storage	Micro SD slot

### Network Specifications

Protocols	IPv4, IPv6, TCP, UDP, ARP, RTP, RTCP, RTP, RTSP, HTTP, HTTPS, SMTP, FTP, DHCP, UPnP, QoS, Zeroconf, Bonjour
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### Network Specifications (continued)

WiFi	IEEE 802.11b/g/n
DDNS Support	Speco DDNS (free of charge)
Security	User ID & Password protection, IP address filtering, HTTPS
User Access	10 simultaneous users Performance may vary depending on resolution and number of connections

### System Specifications

PoE	N/A
Analytics	Motion detection (8 regions)
Alarm Triggers	Motion, on boot, network loss, manual
Alarm Events	FTP video file upload, email image upload, micro SD card recording, HTTP server, boost
Video Buffer	Configurable pre-record & post-record
Image Settings	Privacy mask

### Client Specifications

Web Browser Support	Windows (Internet Explorer 8 and up, Chrome, Firefox)
Mobile Apps	Speco VIP (iPhone®, iPad® and Android™)
PC Application	Speco VMS, SecureGuard®

### Operating & Unit Specifications

Power Supply	5VDC (power supply included)
Power Consumption	600mA
Operating Temperature	32° F – 104° F
Operating Humidity	0% – 90% RH
Unit Dimensions	2.44" (W) x 3.81" (H) x 1.51" (D)
Unit Weight	2.64 oz.
Certifications	FCC, RoHS
Included in Package	Unit, CD (manual, software), power supply, mounting bracket, mounting screws

### Optional Accessories



**PSDC24**  
12VDC  
Power Supply



**IPPOEINJ1295**  
12.95W  
PoE Injector



**VIPRC**  
Remote Control

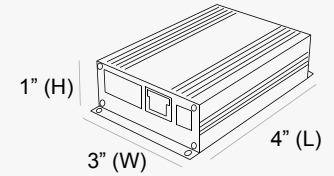
- OS101** Dual-Codec H.264 & MJPEG IP Video Server
- OS102** Dual-Codec H.264/MJPEG 1 Ch. Video Server
- D1BD** IP Encoder for Analog Cameras

## Features

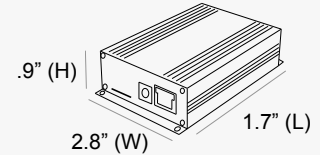
- Converts analog video into digital D1 resolution @ 30fps
- Supports H.264 and MJPEG codecs
- Built-in standard PoE (OS101 only)
- SD card slot (OS101 only)
- DC 12V power output for analog camera (OS101 only)
- RS-485 for external PTZ devices (OS101 only)
- 2-way audio communication (OS101 only)
- Alarm I/O (OS101 and OS102 only)
- ONVIF Profile S listed\*
- 2 year warranty



OS101



OS102



D1BD

### Video Specifications

Supported Resolutions ..... 704x480 / 704 x 240 / 640 x 480  
 352 x 240 / 176 x 112 @ 30fps

Compression ..... H.264, MJPEG

Bitrate Control..... VBR, CBR

Multiple Streaming..... 3 simultaneous profiles

### Audio Specifications (OS101 only)

Mono Input..... 64Kbps G.711 / 32Kbps G.726

Mono Output..... 64Kbps G.711

### External Terminal Specifications

Ethernet..... 10/100 Mbps

Alarm ..... 1 sensor input,  
 1 relay output (OS101 and OS102)

Analog Video Input ..... BNC (all), S-Video (OS101 only)

Analog Video Output ..... BNC and Balun (OS101 only)

Audio ..... 1 line out, 1 mic in (OS101 only)

Control..... RS-485 for external PTZ device  
 (OS101 only)

Power ..... DC jack

### Network Specifications

Protocols..... IPv4, TCP, UDP, RTCP, RTP, RTSP,  
 HTTP, SMTP, FTP, DHCP

DDNS support ..... Speco DDNS (free of charge)

Security..... User ID & Password protection,  
 IP address filtering, HTTPS,  
 digest authentication, user access log

### System Specifications

Analytics ..... Motion detection (3 regions)

### Client Specifications

Web Browser Support ..... Windows (Internet Explorer 8 and up)

Mobile Apps..... Speco ONSIP (iPhone®, iPad® and Android™)

PC Application ..... Speco NVR, SecureGuard®

### Operating & Unit Specifications

Power Supply ..... 12VDC (power supply not included)

PoE Power Consumption .. 12W (OS101 only)

Power Consumption ..... 24W (OS101), 3W (OS102 and D1BD)

Operating Temperature..... 32° F – 113° F

Operating Humidity..... 8% – 80% RH

Unit Dimensions ..... OS101: 3" (W) x 1" (H) x 4" (L)

OS102: 2.8" (W) x 0.9" (H) x 1.7" (L)

D1BD: 1.8" (W) x 1.8" (H) x 0.75" (L)

Unit Weight..... OS101: 6.75 oz.

OS102: 3.2 oz.

D1BD: 4 oz.

Certifications..... FCC, RoHS

### Free Apps with support for view on most smart devices









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### Optional Accessories



IP Camera Comparison Chart											
Model	Indoor / Outdoor	Type	PoE / Type	Lens	IR LED Range	Max Resolution	WDR	SD Card Slot	2-Way Audio	Voltage	ONVIF Profile S
O2D10	Outdoor	Dome	Yes, af	3-9mm VF motorized	65'	1920x1080 @ 60fps	Yes	Yes	Yes	12VDC	Yes
O2D4	Outdoor	Dome	Yes, af	3.6-16mm VF	49'	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
O5MDP1	Outdoor	Mini-Dome	Yes, af	0.98-1.12mm panomorph	N/A	2592x1944 @ 10fps	Yes	Yes	Yes	12VDC	Yes
O2MD1	Outdoor	Mini-Dome	Yes, af	3.7mm fixed	30'	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
VIP3D2M	Outdoor	Dome	Yes, af	3-9mm VF motorized	65'	2048x1536 @ 20fps	Yes	Yes	Yes	Dual	Yes
VIP2D2M	Outdoor	Dome	Yes, af	3-9mm VF motorized	65'	1920x1080 @ 30fps	No	Yes	Yes	Dual	Yes
VIP2D2	Outdoor	Dome	Yes, af	3-9mm VF	N/A	1920x1080 @ 30fps	No	Yes	Yes	Dual	Yes
O2B16	Outdoor	Bullet	Yes, af	3-9mm VF motorized	98'	1920x1080 @ 60fps	Yes	Yes	Yes	Dual	Yes
O2B2	Outdoor	Bullet	Yes, af	3.6-16mm VF	90'	1920x1080 @ 30fps	Yes	Yes	Yes	Dual	Yes
O2IR56B1	Outdoor	Bullet	Yes, af	2.8-10mm VF	90'	1920x1080 @ 30fps	Yes	Yes	Yes	Dual	Yes
VIP2B1M	Outdoor	Bullet	Yes, af	3-9mm VF motorized	80'	1920x1080 @ 30fps	No	Yes	No	12VDC	Yes
O2B5	Outdoor	Bullet	Yes, af	3.7mm fixed	82'	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
VIP2B3	Outdoor	Bullet	Yes, af	3.7mm fixed	65'	1920x1080 @ 30fps	No	Yes	No	Dual	Yes
O2MB1	Outdoor	Mini-Bullet	Yes, af	3.7mm fixed	N/A	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
O2MT61	Outdoor	Mini-Turret	Yes, af	3.7mm fixed	N/A	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
OINT56B1G	Outdoor	Bullet	No	2.8-12mm VF	N/A	704x480 @ 30fps	No	No	Yes	12VDC	Yes
OINT03D1G	Outdoor	Turret	No	2.8-12mm VF	N/A	704x480 @ 30fps	No	No	Yes	12VDC	Yes
O2P30	Outdoor	PTZ	Yes, at	4.3-129mm, 30x optical zoom	N/A	1920x1080 @ 30fps	Yes	Yes	Yes	24VAC	Yes
O2PTZ22D5W	Outdoor	PTZ	Yes, at	4.7-94mm, 20x optical zoom	N/A	1920x1080 @ 30fps	No	Yes	Yes	12VDC	Yes
VIP2PTZ12X	Outdoor	PTZ	Yes, af	5.32-62.61mm, 12x optical zoom	N/A	1920x1080 @ 60fps	Yes	No	Yes	Dual	Yes
OPTZ36XO	Outdoor	PTZ	Yes, at	3.4-122.4mm 36x optical zoom	N/A	704x480 @ 30fps	No	Yes	Yes	12VDC	Yes
OPTZ33D5W	Outdoor	PTZ	No	3.94-46.05mm 12x optical zoom	N/A	704x480 @ 30fps	No	No	Yes	12VDC	Yes
O2DP14	Indoor	Dome	Yes, af	3-9mm VF motorized	65'	1920x1080 @ 60fps	Yes	Yes	Yes	12VDC	Yes
O2DP8	Indoor	Dome	Yes, af	3.6-16mm VF	49'	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
VIP2D1M	Indoor	Dome	Yes, af	3-9mm VF motorized	N/A	1920x1080 @ 30fps	No	Yes	No	12VDC	Yes
VIP1D1	Indoor	Dome	Yes, af	3-9mm VF	N/A	1280x1024 @ 30fps	No	Yes	No	12VDC	Yes
VIP2P1	Indoor	Mini-Dome	Yes, af	3.7mm fixed	N/A	1920x1080 @ 30fps	No	Yes	No	12VDC	Yes
VIP2P1N	Indoor	Mini-Dome	Yes, af	3.7mm fixed	N/A	1920x1080 @ 30fps	No	Yes	No	12VDC	Yes
O2PTZ34D5W	Indoor	PTZ	Yes, at	4.7-94mm, 20x optical zoom	N/A	1920x1080 @ 30fps	No	Yes	Yes	12VDC	Yes
OPTZ36XI	Indoor	PTZ	Yes, at	3.4-122.4mm 36x optical zoom	N/A	704x480 @ 30fps	No	Yes	Yes	12VDC	Yes
O2T6	Indoor	Box	Yes, af	CS type	N/A	1920x1080 @ 30fps	Yes	Yes	Yes	12VDC	Yes
VIP2C1P	Indoor	Cube	Yes, af	2.6mm fixed	PIR/White LED	1600x1200 @ 15fps	No	Yes	Yes	5VDC	Yes
VIP2C1N	Indoor	Cube	No	2.6mm fixed	N/A	1600x1200 @ 15fps	No	Yes	No	5VDC	Yes
OS101	Indoor	Encoder	Yes, af	N/A	N/A	704x480 @ 30fps	No	Yes	Yes	12VDC	Yes
OS102	Indoor	Encoder	No	N/A	N/A	704x480 @ 30fps	No	No	No	12VDC	Yes
D1BD	Indoor	Encoder	No	N/A	N/A	704x480 @ 30fps	No	No	No	12VDC	Yes

Model	Type	Image	Applicable Models
CVCJBB	Bullet Junction Box		O2IR56B1 / OINT56B1G
CVCJBD	Dome Junction Box		O2D4
DFM	Ceiling Flush Mount		O2D4, O2DP8
JB03TG	Large Round Junction Box		OINT03D1G
INTCM	Corner / Pole Mount		O2IR56B1 / OINT56B1G
INTJBS	Square Junction Box		O2IR56B1 / OINT56B1G
INTPM	Pendant Mount		O2D4 / OINT03D1G
INTWM	Dome Wall Mount		O2D4 / OINT03D1G / O2DP8
O2JBB	Bullet Junction Box		O2B2
O2CM	Corner / Pole Mount		O2B2
OADP1	Adaptor Plate		Connects OPTZGN, OPTZCM, or OPTZPM to O2PTZ34D5W / OPTZ36XI
OADP2	Adaptor Plate		Connects OPTZGN, OPTZCM, or OPTZPM to OPTZ33D5W
OPTZCB	Ceiling Bracket Kit		O2PTZ22D5W / OPTZ36XO
OPTZCM	Corner Mount Adaptor		- O2PTZ22D5W / OPTZ36XO / OPTZ33D5W with OPTZWB - O2PTZ22D5W / OPTZ36XO - O2PTZ34D5W / OPTZ36XI with OADP1 - OPTZ33D5W with OADP2
OPTZDFM	Indoor Embedded Mount Bracket for Flush Type		O2PTZ34D5W / OPTZ36XI
OPTZDFM3	Embedded Mount Bracket		OPTZ33D5W

Model	Type	Image	Applicable Models
OPTZGN	Gooseneck Mount		- O2PTZ22D5W / OPTZ36XO - O2PTZ34D5W / OPTZ36XI with OADP1 - OPTZ33D5W with OADP2
OPTZOH	Outdoor Housing with Fan/Heater & OPTZWB		O2PTZ34D5W / OPTZ36XI
OPTZPM	Pole Mount Adaptor		- O2PTZ22D5W / OPTZ36XO / OPTZ33D5W with OPTZWB - O2PTZ22D5W / OPTZ36XO - O2PTZ34D5W / OPTZ36XI with OADP1 - OPTZ33D5W with OADP2
OPTZWB	Wall Mount Bracket		O2PTZ22D5W (included) / OPTZ36XO (included) / OPTZ33D5W
OPTZWB2	Wall Bracket		O2PTZ22D5W / OPTZ36XO
OPTZWM	Wall Mount Bracket, IP66		O2PTZ34D5W / OPTZ36XI
APT29DW	Adaptor Plate		Connects COR32DW or POL28DW to VIP2D2 / VIP2D2M / VIP3D2M / VIP2PTZ12X when using WMA29DW
APT32DW	Adaptor Plate		Connects COR32DW or POL28DW to VIP2D2 / VIP2D2M / VIP3D2M / VIP2PTZ12X
COR32DW	Corner Mount Adaptor		VIP2D2 / VIP2D2M / VIP3D2M / VIP2PTZ12X with APT32DW
PEN29DW	Pendant Arm		VIP2D2 / VIP2D2M / VIP3D2M / VIP2PTZ12X
PMA29DW	Pole Mount Adaptor		VIP2D2 / VIP2D2M / VIP3D2M / VIP2PTZ12X
POL28DW	Pole Mount		VIP2D2 / VIP2D2M with APT32DW
WAC29DW	Wall / Ceiling Mount		VIP2D2 / VIP2D2M with APT32DW
WMA29DW	Wall Mount		VIP2D2 / VIP2D2M

# PLUG & PLAY NVR

**WORK**

*An Intelligent NVR That Does The Work For You!*



**NSP**

- Dual network ports for isolating IP camera network traffic and remote network
- Network video recorder with free DDNS server
- **NO LICENSING FEES**
- Digital Deterrent® for triggering audio message via motion detection or sensor
- Remote apps for viewing & playback on devices
- 2-way audio communication
- WiFi accessible

4, 8 or 16 Channel Plug & Work with Built-In PoE



**Storage available up to 6 TB**



**AUTOFIND**



**OnSIP** **VIP** series **ONVIF**

**EZ CAMERA** quickly autofinds & installs Speco's OnSIP & VIP cameras

- EZ Network:** be up and running in a few clicks!
- EZ Search:** thumbnail search events
- EZ Record:** setup recording resolutions and recording type
- EZ Copy:** auto copy onto a USB flash drive



Scan Here For Video Clips Including Quick Autofind Demo "Intro Video"





**EVENT ALERTS!**  
Via Twitter or email



**EASY & QUICK  
SET UP OF SYSTEM  
ESSENTIALS**



**FIND IT FAST!**  
Quickly search events  
from thumbnails.



**Communicate with  
remote locations  
instantly to assist  
in crime prevention.**



**Digital Deterrent®  
Audio/Visual Crime  
Deterrent Stop Crime  
Before It Happens.**



**Avoid a service call  
& upgrade NVR  
software remotely**



**System Monitoring  
- Recording Device can  
report performance  
health issues via  
Twitter or Email.**

Select day & camera to review

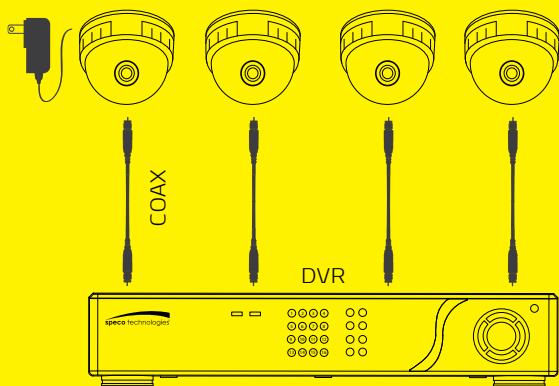


Choose hour of day

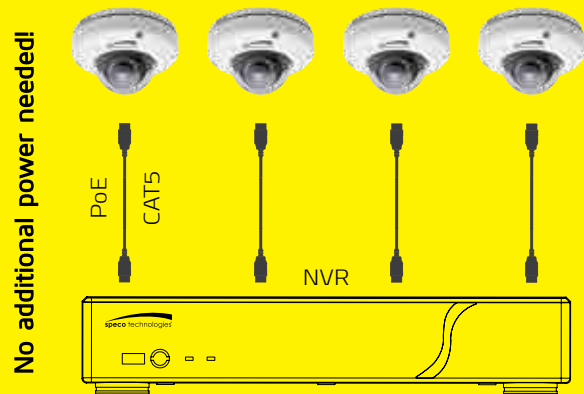
Pick 2 ½ min clip of hour

Playback video

If You Know Analog...



You Already Know IP



**Check Out Our NS Series NVRs Starting on pg. 42**

## NS Plug & Play Network Video Recorder with Built-In PoE

- N4NSP** 4 Channel Network Video Recorder with 4 Channel Built-in PoE
- N8NSP** 8 Channel Network Video Recorder with 8 Channel Built-in PoE
- N16NSP** 16 Channel Network Video Recorder with 8 Channel Built-in PoE

### Storage 1TB – 6TB

N4NSP1TB	N8NSP1TB	N16NSP2TB
N4NSP2TB	N8NSP2TB	N16NSP3TB
N4NSP3TB	N8NSP3TB	N16NSP4TB
N4NSP4TB	N8NSP4TB	N16NSP6TB
N4NSP6TB	N8NSP6TB	

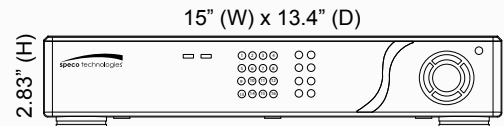


Front panel



Rear panel

N8NSP shown



## Features

- EZ Camera:** quickly discovers and installs IP cameras
- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI, 1 VGA, 1 CVBS
- 8 and 16 channel NVR supports up to 5MP resolution on channel 1
- 4 channel NVR supports up to 3MP resolution on channel 1
- Plug & play feature with Speco's OnSIP/IP/ZIP cameras
- ONVIF support\*
- Dual network ports for isolating IP camera network and remote network traffic
- Supports all H.264 compression profiles (baseline, main and high)
- Network video recorder with free Speco DDNS server
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Full HD (1920 x 1080) recording and playback
- Supports wireless access point for viewing and configuration
- Built-in S.M.A.R.T. Technology  
(Self-Monitoring, Analysis and Reporting Technology for HDD)

- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- Built-in PoE provides power to IP cameras
- 4/8/16 channel selectable local or IP camera audio recording
- Easy firmware upgrade by USB port or network
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS and Speco Player Mobile Viewer
- PC and MAC® compatible
- 3 year warranty

### Free Apps with support for view on most smart devices

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### Optional Accessories



**ERS1V**  
Vented Rack Shelf



**IRRPTKIT**  
IR Repeater Kit



**DSWFUSB**  
USB Wireless Access Point

ITEM		NSP			
Video	Input	IP Channel	4	8	16
		Video Loss Check	Yes		
	Output	HDMI	1 HDMI (1920x1080, 1280x720)		
		VGA	1 VGA (1920x1080, 1280x720)		
CVBS / SPOT		Main or Spot			
Audio	Input & Output		4 line input, 4 IP input, 1 line output	8 line input, 8 IP input, 1 line output	16 line input, 16 IP input, 1 line output
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 local, 4 IP	4 local, 8 IP	4 local, 16 IP
	Alarm Output		1		
Serial	RS-485	PTZ	1		
	Compression		H.264 (baseline, main, high profile)		
Recording	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	1920x1080	120fps	240fps	480fps
		1280x720	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual / Continuous + Sensor / Continuous + Motion		
	Motion Detection		Motion detection configured via IP camera		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		Max. 20 minutes		
	Post Recording		Max. 60 seconds		
Playback	Multi-Decoding		1, 4	1, 4, 8	1, 4, 9, 16
	Search Mode		EZ Search, Date/Time, Event, Archive and Log		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	2		
		e-SATA	1		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		3			
User I/F	Menu Display	GUI			
	Input Method	Front Buttons, IR Mouse, Keyboard Controller			
Network	Interface	10/100 base-TX ethernet	10/100/1000 base-TX ethernet		
	Streaming	Depends on profile			
	Max. Throughput	20 Mbps	40 Mbps		
Network Access	Mobile Viewer	Live, Search, PTZ, 2-Way Audio			
	PC Web Viewer	Internet Explorer, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)			
	PC Client	SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)			
	MAC Client	Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)			
Features	Digital Deterrent®	Default + up to 8 custom audio files			
	Digital Zoom	Yes			
	DLS (Daylight Savings)	Yes			
	EZ Record	Yes			
	S.M.A.R.T	Yes			
	Internal Beep	Yes			
	Multi-Language	English / French / Spanish			
	Dynamic DNS	Yes (free Speco DDNS)			
	SW Upgrade	USB and remote software upgrade			
NTP (Network Time Protocol)	Yes				
Power Source	Power Supply Voltage	12VDC, 5A / 48VDC, 1A	12VDC, 5A / 48VDC, 2A		
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)	12 lbs.			
Dimensions	Unit Dimensions (W x H x D)	15" (W) x 2.83" (H) x 13.4" (D)			

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/17/14

## NS Plug & Play Network Video Recorder

- N4NS** 4 Channel Network Video Recorder
- N8NS** 8 Channel Network Video Recorder
- N16NS** 16 Channel Network Video Recorder

### Storage 1TB – 9TB

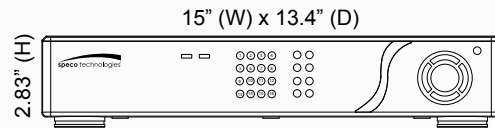
N4NS1TB	N8NS1TB	N16NS2TB
N4NS2TB	N8NS2TB	N16NS3TB
N4NS3TB	N8NS3TB	N16NS4TB
N4NS4TB	N8NS4TB	N16NS6TB
N4NS6TB	N8NS6TB	N16NS9TB
N4NS9TB	N8NS9TB	



Front panel



Rear panel



## Features

- EZ Camera:** quickly discovers and installs IP cameras
- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI, 1 VGA, 1 CVBS
- 8 and 16 channel NVR supports up to 5MP resolution on channel 1
- 4 channel NVR supports up to 3MP resolution on channel 1
- Plug & play feature with Speco's OnSIP/VIP/ZIP cameras
- ONVIF support\*
- Dual network ports for isolating IP camera network and remote network traffic
- Supports all H.264 compression profiles (baseline, main and high)
- Network video recorder with free Speco DDNS server
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Full HD (1920 x 1080) recording and playback
- Supports wireless access point for viewing and configuration
- Built-in S.M.A.R.T. Technology  
(Self-Monitoring, Analysis and Reporting Technology for HDD)

- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- 4/8/16 channel selectable local or IP camera audio recording
- Easy firmware upgrade by USB port or network
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS and Speco Player Mobile Viewer
- PC and MAC® compatible
- 3 year warranty

### Free Apps with support for view on most smart devices

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### Optional Accessories



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Vented Rack Shelf



**IRRPTKIT**  
IR Repeater Kit



**DSWFUSB**  
USB Wireless Access Point

ITEM		NS			
Video	Input	IP Channel	4	8	16
		Video Loss Check	Yes		
	Output	HDMI	1 HDMI (1920x1080, 1280x720)		
		VGA	1 VGA (1920x1080, 1280x720)		
CVBS / SPOT		Main or Spot			
Audio	Input & Output		4 line input, 4 IP input, 1 line output	8 line input, 8 IP input, 1 line output	16 line input, 16 IP input, 1 line output
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 local, 4 IP	4 local, 8 IP	4 local, 16 IP
	Alarm Output		1		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264 (baseline, main, high profile)		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	1920x1080	120fps	240fps	480fps
		1280x720	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual / Continuous + Sensor / Continuous + Motion		
	Motion Detection		Motion detection configured via IP camera		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		Max. 20 minutes		
Post Recording		Max. 60 seconds			
Playback	Multi-Decoding		1, 4	1, 4, 8	1, 4, 9, 16
	Search Mode		EZ Search, Date/Time, Event, Archive and Log		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	3		
		e-SATA	1		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
Network		Video & Still Image			
USB Port		3			
User I/F	Menu Display		GUI		
	Input Method		Front Buttons, IR Mouse, Keyboard Controller		
Network	Interface		10/100 base-TX ethernet	10/100/1000 base-TX ethernet	
	Streaming		Depends on profile		
	IP Camera Throughput		20 Mbps	40 Mbps	
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 8 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		English / French / Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		12 lbs.		
Dimensions	Unit Dimensions (W x H x D)		15" (W) x 2.83" (H) x 13.4" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/17/14

## NS Plug & Play Wall Mount Network Video Recorder

### N4WNS, N8WNS, N16WNS

Base Wall Mount Model

### N4WNSM, N8WNSM, N16WNSM

Wall Mount with Built-In Monitor

### N4WNSP, N8WNSP, N16WNSP

Wall Mount with Built-In PoE

### N4WNSPM, N8WNSPM, N16WNSPM

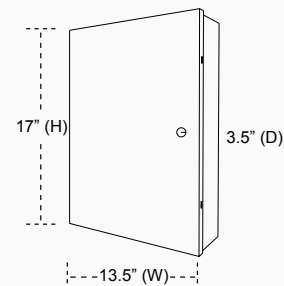
Wall Mount with Built-In PoE and Monitor

#### Storage

1TB – 9TB (see page 78 for model numbers)



Patented Design



## Features

- EZ Camera:** quickly discovers and installs IP cameras
- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI, 1 VGA, 1 CVBS
- 8 and 16 channel NVR supports up to 5MP resolution on channel 1
- 4 channel NVR supports up to 3MP resolution on channel 1
- Plug & play feature with Speco's OnSIP/VIP/ZIP cameras
- ONVIF support\*
- Dual network ports for isolating IP camera network and remote network traffic
- Supports all H.264 compression profiles (baseline, main and high)
- A patented NVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- Network video recorder with free Speco DDNS server
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Full HD (1920 x 1080) recording and playback
- Supports wireless access point for viewing and configuration

- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- 4/8/16 channel selectable local or IP camera audio recording
- Easy firmware upgrade by USB port or network
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS and Speco Player Mobile Viewer
- PC and MAC® compatible
- 3 year warranty

### Free Apps with support for view on most smart devices

\*visit [www.specotech.com/onvif.html](http://www.specotech.com/onvif.html) for latest ONVIF support. The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. iPhone is a trademark of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google Inc. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/17/14



### Optional Accessories



IRRPTKIT  
IR Repeater Kit



DSWFUSB  
USB Wireless  
Access Point

ITEM		WNS / WNSM / WNSP / WNSPM			
Video	Input	IP Channel	4	8	16
		Video Loss Check	Yes		
	Output	HDMI	1920x1080, 1280x720		
		VGA	1920x1080, 1280x720		
CVBS / SPOT		Main or Spot			
Audio	Input & Output		4 line input, 4 IP input, 1 line output	8 line input, 8 IP input, 1 line output	16 line input, 16 IP input, 1 line output
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 local, 4 IP	4 local, 8 IP	4 local, 16 IP
	Alarm Output		1		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264 (baseline, main, high profile)		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	1920x1080	120fps	240fps	480fps
		1280x720	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual / Continuous + Sensor / Continuous + Motion		
	Motion Detection		Motion detection configured via IP camera		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		Max. 20 minutes		
Post Recording		Max. 60 seconds			
Playback	Multi-Decoding		1, 4	1, 4, 8	1, 4, 9, 16
	Search Mode		EZ Search, Date/Time, Event, Archive and Log		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	3		
		e-SATA	1		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
Network		Video & Still Image			
USB Port		3			
User I/F	Menu Display		GUI		
	Input Method		IR Mouse, Keyboard Controller		
Network	Interface		10/100 base-TX ethernet	10/100/1000 base-TX ethernet	
	Streaming		Depends on profile		
	IP Camera Throughput		20 Mbps	40 Mbps	
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 8 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		English / French / Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
Power Source	Power Supply Voltage		WNS / WNSM: 12VDC, 5A	WNSP / WNSPM: 12VDC, 5A   48VDC, 1A	
	Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH		
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		WNS / WNSM: 10 lbs.   WNSP / WNSPM: 12 lbs.		
Dimensions	Unit Dimensions (W x H x D)		13.5" (W) x 17" (H) x 3.5" (D)		

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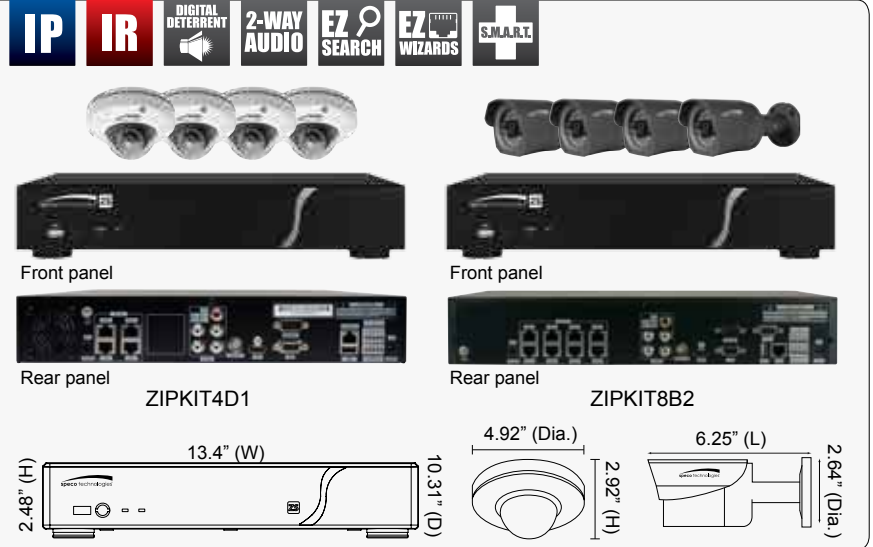
## Plug & Play Network Video Recorder and IP Camera Kit

### ZIPKIT4D1

4 Channel NVR with 4 Channel Built-In PoE,  
4 Full HD 1080p Outdoor IR Dome Cameras, 1TB

### ZIPKIT8B2

8 Channel NVR with 8 Channel Built-In PoE,  
4 Full HD 1080p Outdoor IR Bullet Cameras, 2TB



### NVR Features

**EZ Set-Up Wizards:** one click wizard guides you to set up essentials of the system in a logical and easy to understand sequence.

- Date/Time - Recording method - Recording video quality - Network - Port forwarding

**EZ Camera:** quickly discovers and installs IP cameras

**EZ Search:** quickly search events from thumbnails

**EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI®, 1 VGA, 1 CVBS
- Plug & play feature with Speco's IP cameras
- Dual network ports for isolating IP camera network and remote network traffic
- Network video recorder with free Speco DDNS server
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Full HD (1920 x 1080) recording and playback

- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS and Speco Player Mobile Viewer
- IR remote control and mouse included
- PC and MAC® compatible
- 3 year warranty

### Camera Features

- 3.7mm fixed lens
- Real-time video up to 30fps
- PoE IEEE 802.3af
- Dual streaming
- Weather/vandal resistant
- IP66 compliant
- 2 year warranty

### Camera Specifications

Image Sensor .....	1/2.8" 2.1MP CMOS
Resolution.....	1080p/720p
Minimum Illumination.....	0 lux @F2.5 (IR on) 0.1 lux @F2.5 (IR off)
S/N Ratio .....	50dB
Shutter Speed.....	1/7 – 1/30,000 sec.
Motion Detection.....	Yes
Day/Night.....	IR-cut filter
DNR.....	2D/3D Automatic

### Camera Specifications (continued)

Number of IR LEDs .....	Dome: 12 Bullet: 24
IR Range .....	Dome: 23' (depending on scene reflection) Bullet: 50' (depending on scene reflection)
IR Wavelength .....	850nm

### Operating & Unit Specifications

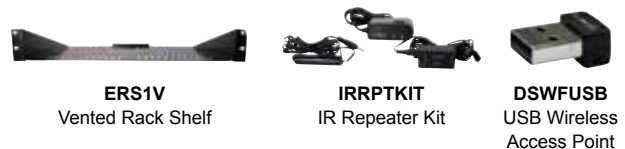
Power Supply .....	PoE or 12VDC (power supply not included)
Power Consumption .....	Dome: 300mA (IR on) Bullet: 360mA (IR on)
Operating Temperature.....	-4° F – 122° F
Weight .....	Dome: 14.40 oz. Bullet: 15.36 oz.
Dimensions.....	Dome: 4.92" (Dia.) x 2.92" (H) Bullet: 2.64" (Dia.) x 6.25" (L)

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### Optional Accessories





Model			ZIPKIT4D1	ZIPKIT8B2
Video	Input	Max. IP Channels	4	8
		Resolution	Max. 1920 x 1080	
	Output	HDMI®	1 HDMI (1280 x 720, 1920 x 1080)	
		VGA	1 VGA (1280 x 720, 1920 x 1080)	
		CVBS	1 main monitor	
Audio	Input	IP Camera (Network)	4	8
		Local Input (RCA)	4	4
	Output	Local Output (RCA)	1	1
		Audio Codec	G.711	
Serial	RS-232C	Debugging Only	1	
		RS-485	1	
Recording		Compression	H.264 (baseline, main and high profile)	
	Resolution	1080p	120fps	240fps
		720p	120fps	240fps
		Recording Mode	Continuous / Motion / Sensor / Schedule / Manual / Continuous + Motion / Continuous + Sensor	
		Pre-Recording	Max. 20 minutes	
	Post Recording	Max. 60 seconds		
Playback		Search	EZSearch, Date/Time, Event, Archive, Log	
		Multi-Decoding	1, 4	1, 4, 8
		Playback Speed	x0.25, x0.5, x2, x4, x8, x16, x32, x64	
Backup		Media	USB Drive, External HDD, Network	
		File Format	BMP, AVI, Proprietary Format	
		Large Backup	Yes (max. 24 hours)	
Storage	HDD	Capacity of 1 HDD	3TB	
		Internal HDDs	1	
		e-SATA	No	
	USB	Front	1	
		Rear	1	
User I/F		Input Method	IR, Mouse, Keyboard Controller	
Event	Sensor In	IP Camera (Network)	4	8
		Local Input (Terminal Block)	4	4
		Local Alarm Output (Terminal Block)	1	
	Motion Detection (From IP Camera)	Yes		
Network		LAN (IP Camera, Auto Connection)	4 802.3af PoE	8 802.3af PoE
		WAN (IP Camera, Remote Access)	10/100Base-T	
		Protocols	TCP/IP, UDP, DHCP, HTTP, NTP, SMTP, RTP, RTSP	
		Max. Throughput	20Mbps	40Mbps
Network Access		Mobile Viewer	iPad® / iPhone® / Android™	
		PC Web Viewer	Internet Explorer, Chrome, Firefox, Safari	
		PC Client	SpecoTech Multi-Client Viewer and SecureGuard® CMS	
		MAC Client	Speco Client for MAC and SecureGuard® CMS	
		Remote Setup and Upgrade	Yes	
Features		Digital Deterrent®	Default + up to 8 audio files	
		Digital Zoom	Yes	
		DLS (Daylight Savings)	Yes	
		S.M.A.R.T	Yes	
		Internal Beep	Yes	
		Multi-Language	Yes	
		Dynamic DNS	Yes (free Speco DDNS)	
		Email Notification	Yes	
	NTP (Network Time Protocol)	Yes		
Power Source		Power Supply Voltage	12VDC, 5A / 48VDC, 1A	
		Allowable Operating Temperature	41° F – 104° F	
		Allowable Storage Temperature	14° F – 122° F	
Weight		Unit Weight (Gross Weight)	12 lbs.	
Dimensions		Unit Dimensions (W x H x D)	13.4" (W) x 2.48" (H) x 10.31" (D)	

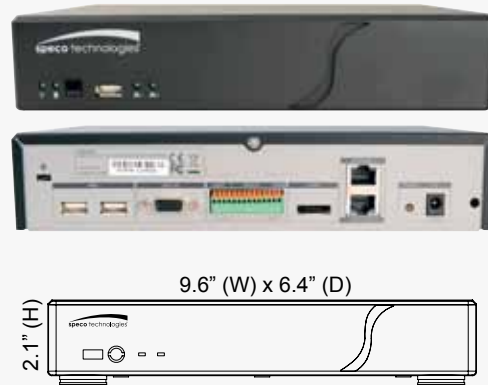
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## 4 Channel IP Camera Network Video Recorder Server

**NVRP4** with Cloud Archiving

<b>Storage</b>	<b>1TB – 2TB</b>
NVRP41TB	NVRP42TB

**IP**



### Features

- Watchdog function
- ONVIF support\*
- 4 IP (video+audio) Ch. - Up to 2.3MP (1920x1200)
- IP video streams: H.264, MPEG4 and MJPEG
- Supports 50+ IP camera brands (refer to camera support list)
- No licensing fees
- Dual LAN Ports - allows creation of two individual networks - one for cameras and one for remote access traffic to help alleviate bandwidth limitations
- EMAPS (8) showcasing camera, sensor and relay positions
- User Access: up to 4 concurrent users
- Easily capture JPG images from live video
- NVRP4 can be set to pre-record video up to 10 seconds before motion activation is detected
- Defined parameter search by date, time, camera, event, and event log file
- Embedded Linux system
- Advanced event log search by event, operation, system & network activities
- Supports 1 internal SATA HDD and 1 external HDD through built-in eSATA interface
- Remote Access with DDNS function
  - Web/Remote Computers: Internet Explorer® WebViewer (view live video)
  - Blackberry™ mobile devices: Java™ Viewer (view live video)
  - iPhone® mobile devices: SpecoPC (view live video)
- With CMPC central management software, you have total remote command of up to 1,000 systems\*
  - Monitor with local CMPC E-maps, record and playback
  - Control sensors and relays
  - Setup and modify NVR configurations
- 3 year warranty

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\*Visit [www.specotech.com/onvif.html](http://www.specotech.com/onvif.html) for latest ONVIF support. \*CMPC software can access up to 16 NVRs at the same time. To connect to more than 16 NVRs, please contact your distributor regarding an Advanced CMPC License (Model # DVRPCLIC). iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google Inc. Blackberry is registered to Blackberry. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/10/14



ITEM			NVRP4
Video	Input	IP Channel	4
		Video Loss Check	Yes
		VGA	1 VGA (1024X768)
Audio	Input & Output		4 line input & 1 line output
	Audio Codec		G.711
Alarm	Sensor Input (NC/NO Selectable)		4 local
	Alarm Output		1
Recording	Compression		H.264, MPEG4, MJPEG
	Multi-Operation		Quadplex (play, record, network, backup)
	Resolution	1920x1056	60fps
		1280x1024	80fps
	Recording Mode		Continuous / Schedule / Motion / Sensor
	Motion Detection		Motion detection setup by grid
	Recording by Channel's Resolution		Yes
	Pre-Recording		Up to 10 seconds
Post Recording		Up to 10 seconds	
Playback	Multi-Decoding		1, 4
	Search Mode		Date/Time, Event, Log, Bookmark
Storage	HDD	Interface Type	Serial ATA
		Capacity of 1 HDD	2TB
		Internal HDD Number	1
	Backup	USB Flash Drive	Video & Still Image
		USB External HDD	Video & Still Image
		Network	Video & Still Image
USB Port		3	
User I/F	Menu Display		GUI
	Input Method		IR Mouse
Network	Interface		10/100/1000 base-TX ethernet
	Streaming		Depends on profile
Network Access	Mobile Viewer		Live, PTZ, Search
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)
	PC Client		CMPC Central Management Software (Live, Search, Backup, PTZ, Remote Setup)
Features	Digital Deterrent®		No
	Digital Zoom		Yes
	DLS (Daylight Savings)		Yes
	S.M.A.R.T		No
	Multi-Language		English / French / Spanish
	Dynamic DNS		Yes (free Speco DDNS)
	SW Upgrade		USB and remote software upgrade
	NTP (Network Time Protocol)		Yes
Power Source	Power Supply Voltage		12VDC, 4A
Allowable Operating Temperature / Humidity			41° F – 104° F / 20% – 80% RH
Allowable Storage Temperature			14° F – 122° F
Weight	Unit Weight (Gross Weight)		5 lbs.
Dimensions	Unit Dimensions (W x H x D)		9.6" (W) x 2.1" (H) x 6.4" (D)

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## 4 Channel Wall Mount IP Camera Network Video Recorder Server

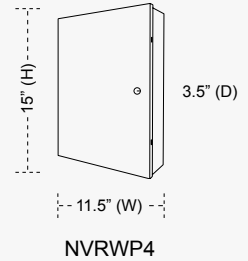
**NVRWP4** with Cloud Archiving

**NVRWP4P** with 4-Port PoE Switch and Cloud Archiving

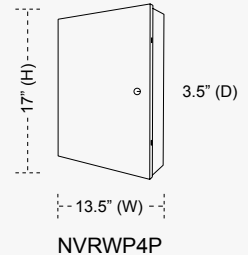
**Storage** 1TB – 2TB

NVRWP41TB	NVRWP4P1TB
NVRWP42TB	NVRWP4P2TB

**IP**



Patented Design



### Features

- A patented NVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- Watchdog function
- ONVIF support\*
- 4 IP (video+audio) Ch. - Up to 2.3MP (1920x1200)
- IP video streams: H.264, MPEG4 and MJPEG
- Supports 50+ IP camera brands (refer to camera support list)
- No licensing fees
- Dual LAN Ports - allows creation of two individual networks - one for cameras and one for remote access traffic to help alleviate bandwidth limitations
- EMAPS (8) showcasing camera, sensor and relay positions
- User Access: up to 4 concurrent users
- Easily capture JPG images from live video
- NVRP4 can be set to pre-record video up to 10 seconds before motion activation is detected
- Defined parameter search by date, time, camera, event, and event log file
- Embedded Linux system
- Advanced event log search by event, operation, system & network activities
- Supports 1 internal SATA HDD and 1 external HDD through built-in eSATA interface
- Remote Access with DDNS function
  - Web/Remote Computers: Internet Explorer® WebViewer (view live video)
  - Blackberry™ mobile devices: Java™ Viewer (view live video)
  - iPhone® mobile devices: SpecoPC (view live video)
- With CMPC central management software, you have total remote command of up to 1,000 systems\*
  - Monitor with local CMPC E-maps, record and playback
  - Control sensors and relays
  - Setup and modify NVR configurations
- 3 year warranty

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\*Visit [www.specotech.com/onvif.html](http://www.specotech.com/onvif.html) for latest ONVIF support. \*CMPC software can access up to 16 NVRs at the same time. To connect to more than 16 NVRs, please contact your distributor regarding an Advanced CMPC License (Model # DVRPCLIC). iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google Inc. Blackberry is registered to Blackberry. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/10/14



ITEM		NVRWP4 / NVRWP4P	
Video	Input	IP Channel	4
		Video Loss Check	Yes
		VGA	1 VGA (1024X768)
Audio	Input & Output		4 line input & 1 line output
	Audio Codec		G.711
Alarm	Sensor Input (NC/NO Selectable)		4 local
	Alarm Output		1
Recording	Compression		H.264, MPEG4, MJPEG
	Multi-Operation		Quadplex (play, record, network, backup)
	Resolution	1920x1056	60fps
		1280x1024	80fps
	Recording Mode		Continuous / Schedule / Motion / Sensor
	Motion Detection		Motion detection setup by grid
	Recording by Channel's Resolution		Yes
	Pre-Recording		Up to 10 seconds
Post Recording		Up to 10 seconds	
Playback	Multi-Decoding		1, 4
	Search Mode		Date/Time, Event, Log, Bookmark
Storage	HDD	Interface Type	Serial ATA
		Capacity of 1 HDD	2TB
		Internal HDD Number	1
	Backup	USB Flash Drive	Video & Still Image
		USB External HDD	Video & Still Image
		Network	Video & Still Image
USB Port		3	
User I/F	Menu Display		GUI
	Input Method		IR Mouse
Network	Interface		10/100/1000 base-TX ethernet
	Streaming		Depends on profile
Network Access	Mobile Viewer		Live, PTZ, Search
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)
	PC Client		CMPC Central Management Software (Live, Search, Backup, PTZ, Remote Setup)
Features	Digital Deterrent®		No
	Digital Zoom		Yes
	DLS (Daylight Savings)		Yes
	S.M.A.R.T		No
	Multi-Language		English / French / Spanish
	Dynamic DNS		Yes (free Speco DDNS)
	SW Upgrade		USB and remote software upgrade
	NTP (Network Time Protocol)		Yes
Power Source	Power Supply Voltage		12VDC, 4A
Allowable Operating Temperature / Humidity			41° F – 104° F / 20% – 80% RH
Allowable Storage Temperature			14° F – 122° F
Weight	Unit Weight (Gross Weight)		NVRWP4: 8.5 lbs. / NVRWP4P: 10 lbs.
Dimensions	Unit Dimensions (W x H x D)		NVRWP4: 11.5" (W) x 15" (H) x 3.5" (D) / NVRWP4P: 13.5" (W) x 17" (H) x 3.5" (D)

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/10/14

## 16 Channel DVR Server with Intelligent Analytics

**DVRPC16T** with Cloud Archiving

**Storage** 1TB – 6TB

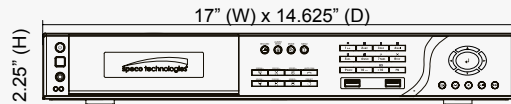
DVRPC16T1TB    DVRPC16T4TB  
 DVRPC16T2TB    DVRPC16T6TB



Front panel



Rear panel



### Features

- Windows® XP Embedded PC Based Operating System
- True Hybrid DVR provides IP camera support on most popular brands including megapixel resolution
- Digital Deterrent® for triggering audio message via motion detection or sensor
- POS/ATM support with text overlay and searchable database
- Remote monitoring, recording, playback, change system settings and dome camera control via network
- CMPC software allows viewing of multiple DVRs on a PC
- DVD/RW standard
- 16 camera inputs and loopouts
- 16 audio inputs
- Intelligent Analytics Software Features:
  - missing objects
  - suspicious objects
  - object detection
  - scene change
  - video encryption
  - watermark verification
  - facefinder
- Advanced programmable motion detection with video analytics
- Still image print capability
- ONVIF support\*
- Rack mountable (hardware included)
- eSATA Support
- Megapixel support - live, recording and playback
- Built-in PTZ control for every channel
- Cloud archiving
- No licensing fees
- User Access: up to 10 concurrent users
- E-Map feature allows local and remote camera, alarm input and output selection from actual multi-level maps
- 3 year warranty

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### Optional Accessories



**IRRPTKIT**  
IR Repeater Kit



**DVRPCLO**  
Loopout Cable



**PC16TRC**  
Remote Control

ITEM			DVRPC16T	
Video	Input	IP Channel	16	
		Analog Channel	16	
		Signal Format	NTSC / PAL	
		Video Loss Check	Yes	
	Output	DVI	1 DVI (1280x1024 / 1680x1050 / 1920x1080 / 1920x1200)	
		VGA	2 VGA (1280x1024 / 1680x1050 / 1920x1080 / 1920x1200)	
		BNC Spot	1 channel sequence	
Loopout		16 analog		
Audio	Input		16 line	
	Output		1 line	
	Audio Codec		G.711	
Alarm	Serial Input (NC/NO Selectable)		16	
	Alarm Output		4 alarm out by sensor, motion and video loss	
Serial	RS-232	POS	1	
	RS-485	PTZ/POS	1	
Recording	Compression		H.264	
	Multi-Operation		Quadplex (play, record, network, backup)	
	Resolution	Analog	D1	120fps
			2CIF	240fps
			CIF	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor	
	Motion Detection		Motion detection grid	
	Recording by Channel's Resolution		Yes	
	Pre-Recording		Up to 10 seconds	
Post Recording		Up to 10 seconds		
Playback	Multi-Decoding		1, 4, 6, 9, 16	
	Search Mode		Date/Time, Record Table, Event, Motion, Text-In	
Storage	HDD	Interface Type	SATA 2.0	
		Capacity of 1 HDD	2TB	
		Internal HDD Number	3	
	Backup	USB Flash Drive	Video & Still Image	
		USB External HDD	Video & Still Image	
		Network	Video & Still Image	
USB Port		2 front, 4 rear		
Network	Interface		10/100/1000Base-TX Ethernet	
	Streaming		Depends on profile	
Network Access	Mobile Viewer		Live, Search, PTZ	
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)	
	PC Client		CMPC Central Management Software (Live, Search, Backup, PTZ, Remote Setup)	
Features	Digital Deterrent®		Yes	
	Digital Zoom		Yes	
	DLS (Daylight Savings)		Yes	
	EZ Record		No	
	S.M.A.R.T		No	
	Multi-Language		English, French, Spanish	
	Dynamic DNS		Yes (free Speco DDNS)	
	SW Upgrade		USB and remote software upgrade	
	Email Notification		Yes	
NTP (Network Time Protocol)		Yes		
Power Source	Power Supply Voltage		19VDC, 6A	
Allowable Operating Temperature / Humidity			41° F – 104° F / 0% – 90% RH	
Allowable Storage Temperature			14° F – 122° F	
Weight	Unit Weight (Gross Weight)		12 lbs.	
Dimensions	Unit Dimensions (W x H x D)		17" (W) x 2.25" (H) x 14.6" (D)	

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/18/14

## HS Hybrid Digital Video Recorder with Real-Time Recording

**D8HS** 8 Channel IP & Analog Hybrid DVR

**D16HS** 16 Channel IP & Analog Hybrid DVR

**Storage** 1TB – 9TB

D8HS1TB	D8HS4TB	D16HS1TB	D16HS4TB
D8HS2TB	D8HS6TB	D16HS2TB	D16HS6TB
D8HS3TB	D8HS9TB	D16HS3TB	D16HS9TB



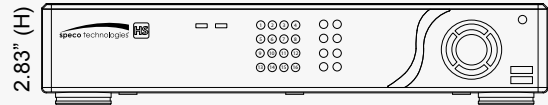
Front panel



Rear panel

D16HS shown

15" (W) x 13.4" (D)



2.83" (H)

### Features

**EZ Set-Up Wizards:** One click wizard guides you to set up essentials of the system in a logical and easy to understand sequence.

- Date/Time - Recording method - Recording video quality - Network
- Port forwarding

**EZ Camera:** quickly discovers and installs IP cameras

**EZ Search:** quickly search events from thumbnails

**EZ Record:** quickly setup recording resolutions and recording type

**EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI®, 1 VGA, 1 Main, 1 Spot
- ONVIF support\*
- Each channel is configurable for either IP or analog
- H.264 video compression
- Networkable hybrid DVR with free Speco DDNS server
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Real-time recording rate at 30fps/channel for analog channels at 960H and IP channels at Full HD (1920x1080)
- Supports wireless access point for viewing and configuration
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)

- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- Easy firmware upgrade by USB port or network
- User Access: up to 4 concurrent users
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Network software supports Static IP, DHCP and DDNS
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS, Internet Explorer Web-Viewer and Speco Player Mobile Viewer
- PC and MAC® compatible
- IR remote control & mouse included
- Rack mountable (hardware included)
- 3 year warranty

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### Optional Accessories



**ERS1V**  
Vented Rack Shelf



**IRRPTKIT**  
IR Repeater Kit



**DSWFUSB**  
USB Wireless Access Point



Model			D8HS	D16HS	
Video	Input	IP Channels	Up to 8	Up to 16	
		Analog Channels	Up to 8	Up to 16	
	Output	HDMI®	1 HDMI (1280x720 / 1920x1080)		
		VGA	1 VGA (1280x720 / 1920x1080)		
BNC		1 main and 1 spot			
Audio	Input	Local Input (RCA)	8	16	
		Remote Input from IP Camera	8	16	
	Output	Local Output (RCA)	1	1	
Audio Codec			G.711		
Alarm	Sensor Input	Local Input	4	4	
		Remote Input from IP Camera	8	16	
	Alarm Output		1	1	
Serial	RS-232C	Debugging Only	1		
	RS-485	PTZ	1		
Recording	Compression		H.264 (baseline, main, high profile)		
	Resolution	IP	1080p	240fps	480fps
			720p	240fps	480fps
		Analog	960H	240fps	480fps
			D1	240fps	480fps
			CIF	240fps	480fps
	Recording Quality Grade (Analog Only)		5 levels		
	Recording Mode		Continuous / Motion / Sensor / Schedule / Manual / Continuous + Sensor / Continuous + Motion		
Pre-Recording		Max. 20 minutes			
Post Recording		Max. 60 seconds			
Playback	Search		EZ Search, Date/Time, Event, Archive, Log		
	Multi-Decoding		1, 4, 8	1, 4, 9, 16	
	Playback Speed		x0.25, x0.5, x2, x4, x8, x16, x32, x64		
Backup	Media		USB Drive, External HDD, Network		
	Format		BMP, AVI, Proprietary Format		
	Large Backup		Yes (max. 24 hours)		
Storage	HDD	Capacity of 1 HDD	3TB		
		Internal HDDs	3		
		e-SATA	1		
USB		2 front, 1 rear			
User I/F	Menu Display		GUI		
	Input Method		Front Buttons, IR, Mouse, Keyboard Controller		
Network	Interface		10/100/1000Base-T		
	Streaming	IP Channel	Depends on profile		
		Analog Channel	CIF @ 30fps/channel		
	Dual Encoding for Network		Yes		
Max. Throughput		40Mbps			
Network Access	Mobile Viewer		Speco Player (Live, Search, PTZ, 2-Way Audio)		
	PC Web Viewer		IE, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS		
Features	Digital Deterrent®		Default + up to 8 audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		Yes		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	E-mail Notification		Yes		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity			41° F – 104° F / 20% – 80% RH (non-condensing)		
Allowable Storage Temperature			14° F – 122° F		
Weight	Unit Weight (Gross Weight)		12 lbs.		
Dimensions	Unit Dimensions (W x H x D)		15" (W) x 2.83" (H) x 13.4" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/12/14

## LX Hybrid Digital Video Recorder with Looping Outputs

**D12LX** 8 Ch. 960H Analog + 4 Ch. IP Hybrid Digital Video Recorder

**D20LX** 16 Ch. 960H Analog + 4 Ch. IP Hybrid Digital Video Recorder

**Storage** 1TB – 9TB

D12LX1TB	D12LX6TB	D20LX1TB	D20LX6TB
D12LX2TB	D12LX9TB	D20LX2TB	D20LX9TB
D12LX3TB		D20LX3TB	
D12LX4TB		D20LX4TB	



Front panel

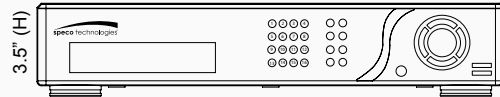


Rear panel

D20LX shown



17" (W) x 15.7" (D)



3.5" (H)

### Features

**EZ Set-Up Wizards:** one click wizard guides you to set up essentials of the system in a logical and easy to understand sequence.

- Date/Time - Recording method - Recording video quality - Network - Port forwarding

**EZ Search:** quickly search events from thumbnails

**EZ Record:** quickly setup recording resolutions and recording type

**EZ Copy:** auto copy what you are playing onto a USB flash drive

- 8 or 16 analog channels (960H) + 4 IP channels (1080p)
- ONVIF support\*
- Video Out: 1 HDMI®, Loop Out, 1 Spot, 1 VGA
- Multiple search engines (date/time, calendar, record table, event, motion, museum)
- Auto port forwarding and SSL encryption
- 2-way audio communication
- Digital Deterrent® for triggering audio message via motion detection or sensor
- Built-in DVD RW drive
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- Free Speco DDNS service for use with dynamic IP addresses
- MAC® & PC compatible software included
- POS/ATM support with text overlay and searchable database
- SNS communication alert via Twitter™
- Remote monitoring, recording, playback, change system settings and dome camera control via network
- IR remote control included - individually control up to 16 DVRs

- USB 2.0 port for video clip exporting
- Configurable per channel normal and event recording frame rate and picture quality or globally via EZ Record
- Easy software upgrade via network or USB flash drive
- Free Central Management System (Speco Central II) software allows viewing of multiple DVRs on a PC
- Concurrent User Connections: Admin (2), Watch (10), Search (2)
- Digital zoom in live mode and playback
- Covert camera operation provides enhanced security and administrator control
- Playback while watching live on same monitor
- Up to 30 minutes pre-alarm recording
- Up to 30 minutes post-alarm recording
- USB mouse supported (not included)
- Password to secure installation with configurable user authentication levels
- Rack mountable (hardware included)
- SecureGuard® compatible
- 3 year warranty

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### Optional Accessories



**LSPSWMKIT**  
Wall Mounting Kit



**IRRPTKIT**  
IR Repeater Kit

ITEM			D12LX	D20LX	
Video	Input	Channel	8 analog + 4 IP	16 analog + 4 IP	
		Input Level	Composite 1.0Vp-p / 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	HDMI®	1 HDMI (1280x1024 / 1440x900 / 1920x1080)		
		VGA	1 VGA (1280x1024 / 1440x900 / 1920x1080)		
		BNC Spot	1 channel sequence		
		Loopout	8 analog	16 analog	
Audio	Input		4 line		
	Output		1 line		
	Audio Codec		G.711		
Alarm	Serial Input (NC/NO Selectable)		8	16	
	Alarm Output		2 alarm out by sensor, motion and video loss		
Serial	RS-232	POS	1		
	RS-485	PTZ/POS	1		
Recording	Compression		H.264		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	Analog	960H	240fps	288fps
			D1	240fps	480fps
			CIF	480fps	480fps
	IP	720p	120fps		
		1080p	70fps		
	Recording Mode		Cont / Schedule / Motion / Sensor / Panic		
	Motion Detection		Motion detection grid		
	Recording by Channel's Resolution		Yes		
Pre-Recording		5 seconds to 30 minutes before an event			
Post Recording		5 seconds to 30 minutes after an event			
Playback	Multi-Decoding		1, 4, 6, 9, 12, PIP	1, 4, 6, 9, 12, 16, 20, PIP	
	Search Mode		Date/Time, Record Table, Calendar, Event, Motion, Museum, Text-In, EZ Search		
Storage	HDD	Interface Type	SATA 2.0		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	3		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		2 front			
Network	Interface		10/100/1000Base-TX Ethernet		
	Streaming		CIF120fps (analog) / depends on profile (IP)		
	IP Camera Throughput		24 Mbps		
Network Access	Mobile Viewer		Speco Mobile (Live, Search, PTZ, 2-Way Audio)		
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		Speco Central II and SecureGuard® (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Remote for MAC and SecureGuard® (Live, PTZ)		
Features	Digital Deterrent®		Default + up to 16 custom audio files		
	Digital Zoom		Live: x2, x3, x4 / Playback: x2, x4		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		English, French, Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	Email Notification		Yes		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity			41° F – 104° F / 0% – 90% RH		
Allowable Storage Temperature			14° F – 122° F		
Weight	Unit Weight (Gross Weight)		17.9 lbs.		
Dimensions	Unit Dimensions (W x H x D)		17" (W) x 3.5" (H) x 15.7" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/12/14

## LS Digital Video Recorder with Looping Outputs

**D8LS** 8 Channel Digital Video Recorder

**D16LS** 16 Channel Digital Video Recorder

**Storage** 500GB – 6TB

D8LS500	D8LS4TB	D16LS500	D16LS4TB
D8LS1TB	D8LS6TB	D16LS1TB	D16LS6TB
D8LS2TB		D16LS2TB	



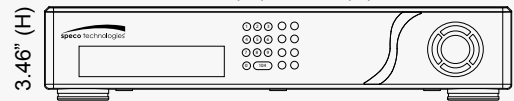
Front panel



Rear panel

D8LS shown

16.9" (W) x 15.7" (D)



### Specifications

- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 VGA, 1 BNC, 1 Spot
- 8/16 BNC loopouts
- Auto port forwarding (uPnP) and SSL encryption
- 2-way audio communication
- 4 channel audio recording and 1 channel audio playback
- Built-in DVD RW drive
- Self-diagnostics with automatic notification including hard disk drive S.M.A.R.T. protocol
- Free Speco DDNS service for use with dynamic IP addresses
- MAC® & PC compatible software included
- POS/ATM support with text overlay and searchable database
- SNS communication alert via Twitter™
- Remote monitoring, recording, playback, change system settings and dome camera control via network and/or internet

- Multiple analytics such as museum search and advanced motion detection
- Free Central Management System (Speco Central) software allows viewing of multiple DVRs on a PC
- User Access: up to 10 concurrent users
- Playback while watching live on same monitor
  - Up to 30 minutes pre-alarm recording
  - Up to 15 minutes post-alarm recording
- Password to secure installation with configurable user authentication levels
- Rack mountable (hardware included)
- SecureGuard® compatible
- 3 year warranty

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### Optional Accessories



**LSPSWMKIT**  
Wall Mounting Kit



**IRRPTKIT**  
IR Repeater Kit

ITEM			D8LS	D16LS	
Video	Input	Channel	8	16	
		Input Level	Composite 1.0Vp-p / 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	VGA	1 VGA (1280x1024 / 1024x768 / 800x600)		
		BNC Spot	1 channel sequence		
Loopout		8 analog	16 analog		
Audio	Input		4 line		
	Output		1 line		
	Audio Codec		G.711		
Alarm	Serial Input (NC/NO Selectable)		8	16	
	Alarm Output		2 alarm out by sensor, motion and video loss		
Serial	RS-232	POS	1		
	RS-485	PTZ/POS	1		
Recording	Compression		H.264		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	Analog	D1	60fps	120fps
			2 CIF	120fps	240fps
			CIF	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Panic		
	Motion Detection		Motion detection grid		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		5 seconds to 30 minutes before an event		
Post Recording		5 seconds to 30 minutes after an event			
Playback	Multi-Decoding		1, 4, 9, PIP	1, 4, 9, 16, PIP	
	Search Mode		Date/Time, Record Table, Calendar, Event, Motion, Museum, Text-in, EZ Search		
Storage	HDD	Interface Type	SATA 2.0		
		Capacity of 1 HDD	2TB		
		Internal HDD Number	3		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		2 front			
Network	Interface		10/100Base-TX Ethernet		
	Streaming		CIF 120fps (analog) / depends on profile (IP)		
Network Access	Mobile Viewer		Speco Mobile (Live, Search, PTZ, 2-Way Audio)		
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		Speco Central and SecureGuard® (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Remote for MAC and SecureGuard® (Live, PTZ)		
Features	Digital Deterrent®		Default + up to 16 custom audio files		
	Digital Zoom		Live: x2, x4 / Playback: x2, x4		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		English, French, Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	Email Notification		Yes		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity			41° F – 104° F / 0% – 90% RH		
Allowable Storage Temperature			14° F – 122° F		
Weight	Unit Weight (Gross Weight)		16.8 lbs.		
Dimensions	Unit Dimensions (W x H x D)		16.9" (W) x 3.46" (H) x 15.7" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/12/14

## DS Digital Video Recorder with 960H Real-Time Recording

**D8DS** 8 Channel 960H Digital Video Recorder

**D16DS** 16 Channel 960H Digital Video Recorder

**Storage** 1TB – 9TB

D8DS1TB	D8DS6TB	D16DS1TB	D16DS6TB
D8DS2TB	D8DS9TB	D16DS2TB	D16DS9TB
D8DS3TB		D16DS3TB	
D8DS4TB		D16DS4TB	



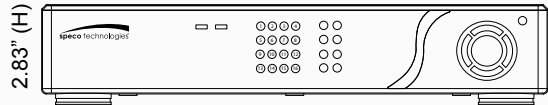
Front panel



Rear panel

D8DS shown

15" (W) x 13.4" (D)



### Features

- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI, 1 VGA, 1 BNC, 1 Spot
- Networkable DVR with free Speco DDNS server
- Easy and simple graphical user interface
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Real-time recording rate at 240FPS (8 Ch.) / 480FPS (16 Ch.) at 960H/D1
- Supports wireless access point for viewing and configuration
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- 8/16 channel audio recording
- Covert camera operation provides enhanced security and administrator control

- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization
- Password to secure installation authorization
- Easy firmware upgrade by USB port or network
- User Access: up to 4 concurrent users
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- PC and MAC® compatible
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS and Speco Player Mobile Viewer
- Rack mountable (hardware included)
- 3 year warranty

### Free Apps with support for view on most smart devices

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### Optional Accessories



ERS1V  
Vented Rack Shelf



IRRPTKIT  
IR Repeater Kit



DSWFUSB  
USB Wireless  
Access Point

ITEM		DS			
Video	Input	Channel	8	16	
		Input Level	Composite, 1.0Vp-p, 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	HDMI	1 HDMI (1280x720, 1920x1080)		
		VGA	1 VGA (1280x720, 1920x1080)		
BNC & SPOT		Main and Spot			
Audio	Input & Output		8 line input & 1 line output	16 line input & 1 line output	
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 channel (NC/NO selectable)		
	Alarm Output		1 alarm out by sensor, motion, video loss, HDD temperature and HDD failure		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	960H	240fps	480fps	
		D1	240fps	480fps	
		CIF	240fps	480fps	
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual / Continuous + Sensor / Continuous + Motion		
	Motion Detection		Motion detection grid		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		Max. 20 minutes		
Post Recording		Max. 60 seconds			
Playback	Multi-Decoding		1, 4, 8	1, 4, 9, 16	
	Search Mode		EZ Search, Timeline, Event, Archive and Log		
Storage	HDD	Interface Type	Sata ATA		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	3		
		e-SATA	1		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		3			
User I/F	Menu Display	GUI			
	Input Method	Front Buttons, Mouse, IR Remote Control			
Network	Interface	10/100/1000Base-TX Ethernet			
	Streaming	CIF 240fps	CIF 480fps		
Network Access	Mobile Viewer	Live, Search, PTZ, 2-Way Audio			
	PC Web Viewer	Internet Explorer, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)			
	PC Client	SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)			
	MAC Client	Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)			
Features	Digital Deterrent®	Default + up to 8 custom audio files			
	Digital Zoom	Yes			
	DLS (Daylight Savings)	Yes			
	EZ Record	Yes			
	S.M.A.R.T	Yes			
	Internal Beep	By video loss, HDD error			
	Multi-Language	English / French / Spanish			
	Dynamic DNS	Yes (free Speco DDNS)			
	SW Upgrade	USB and remote software upgrade			
Power Source	NTP (Network Time Protocol)		Yes		
	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		12 lbs.		
Dimensions	Unit Dimensions (W x H x D)		15" (W) x 2.83" (H) x 13.4" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/21/14

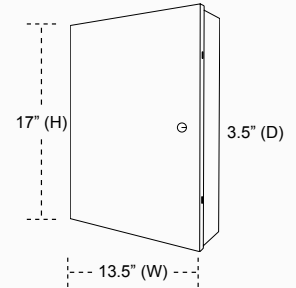
## DS Wall Mount Digital Video Recorder with 960H Real-Time Recording

### D8WDS, D16WDS

Base Wall Mount Model

### D8WDSM, D16WDSM

Wall Mount with Built-In Monitor



Patented Design

**Storage** 1TB – 9TB (see page 79 for model numbers)

## Features

- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI, 1 VGA, 1 BNC, 1 Spot
- A patented DVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- Networkable DVR with free Speco DDNS server
- Easy and simple graphical user interface
- Digital Deterrent® for triggering audio message via motion detection or sensor
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Real-time recording rate at 240FPS (8 Ch.) / 480FPS (16 Ch.) at 960H/D1
- Supports wireless access point for viewing and configuration
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- 8/16 channel audio recording
- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization

- Covert camera operation provides enhanced security and administrator control
- Password to secure installation authorization
- Easy firmware upgrade by USB port or network
- User Access: up to 4 concurrent users
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- PC and MAC® compatible
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS, Internet Explorer Web-Viewer and Speco Player Mobile Viewer
- 3 year warranty

### Free Apps with support for view on most smart devices

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### Optional Accessories



**IRRPTKIT**  
IR Repeater Kit



**DSWFUSB**  
USB Wireless Access Point





ITEM		WDS / WDSM			
Video	Input	Channel	8	16	
		Input Level	Composite, 1.0Vp-p, 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	HDMI	1 HDMI (1280x720, 1920x1080)		
		VGA	1 VGA (1280x720, 1920x1080)		
BNC & SPOT		Main and Spot			
Audio	Input & Output		8 line input & 1 line output	16 line input & 1 line output	
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 channel (NC/NO selectable)		
	Alarm Output		1 alarm out by sensor, motion, video loss, HDD temperature and HDD failure		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	960H	240fps	480fps	
		D1	240fps	480fps	
		CIF	240fps	480fps	
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual / Continuous + Sensor / Continuous + Motion		
	Motion Detection		Motion detection grid		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		Max. 20 minutes		
Post Recording		Max. 60 seconds			
Playback	Multi-Decoding		1, 4, 8	1, 4, 9, 16	
	Search Mode		EZ Search, Timeline, Event, Archive and Log		
Storage	HDD	Interface Type	Sata ATA		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	3		
		e-SATA	1		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		3			
User I/F	Menu Display		GUI		
	Input Method		Mouse, IR Remote Control		
Network	Interface		10/100/1000Base-TX Ethernet		
	Streaming		CIF 240fps	CIF 480fps	
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 8 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		By video loss, HDD error		
	Multi-Language		English / French / Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	NTP (Network Time Protocol)		Yes		
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		Approx. 17 lbs.		
Dimensions	Unit Dimensions (W x H x D)		13.5" (W) x 17" (H) x 3.5" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/14/14

## CX Digital Video Recorder with 960H and Custom Scheduling

- D4CX** 4 Channel Digital Video Recorder
- D8CX** 8 Channel Digital Video Recorder
- D16CX** 16 Channel Digital Video Recorder

### Storage 500GB – 6TB

D4CX500	D8CX500	D16CX1TB
D4CX1TB	D8CX1TB	D16CX2TB
D4CX2TB	D8CX2TB	D16CX3TB
D4CX3TB	D8CX3TB	D16CX4TB
		D16CX6TB

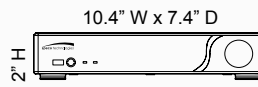


Front panel

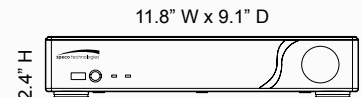


Rear panel

D16CX shown



D4CX / D8CX



D16CX

## Features

**EZ Set-Up Wizards:** one click wizard guides you to set up essentials of the system in a logical and easy to understand sequence.

- Date/time - Recording method - Recording video quality - Network
- Port forwarding

**EZ Search:** quickly search events from thumbnails

**EZ Record:** quickly setup recording resolutions and recording type

**EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI®, 1 VGA
- 960H / D1 / 2CIF / CIF record solutions
- 2-way audio communication
- Digital Deterrent® for triggering audio message via motion detection or sensor
- Free Speco DDNS service for use with dynamic IP addresses
- POS/ATM support with text overlay and searchable database
- Remote monitoring, recording, playback, change system settings and camera control via network and/or internet
- IR remote control included - individually control up to 16 DVRs
- Multiple search modes (date/time, calendar, record table, event motion, museum) EZ Search
- USB 2.0 port for video clip exporting
- Easy software upgrade via network or USB flash drive
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- Configurable per channel normal and event recording frame rate & picture quality or globally via EZ Record

- Free Central Management System (Speco Central II) software allows viewing of multiple DVRs on a PC
- SNS communication alert via Twitter™
- Digital zoom in live mode and playback
- Covert camera operation provides enhanced security and administrator control
- Playback while watching live on same monitor
- Up to 30 minutes pre-alarm recording
- Up to 30 minutes post-alarm recording
- Concurrent User Connections: Admin (2) / Watch (10) / Search (2)
- USB mouse supported (not included)
- Password to secure installation with configurable user authentication levels
- MAC® & PC compatible software included
- SecureGuard® compatible
- 3 year warranty

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### Optional Accessories



DCSRE  
Rack Ears



IRRPTKIT  
IR Repeater Kit

ITEM		D4CX	D8CX	D16CX	
Video	Input	Channels	4	8	16
		Input Level	Composite 1.0Vp-p / 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	HDMI®	1 HDMI (1280x1024 / 1440x900 / 1920x1080)		
		VGA	1 VGA (1280x1024 / 1440x900 / 1920x1080)		
Audio	Input & Output		4 line input, 1 live output		
	Audio Codec		G.711		
Alarm	Sensor Input		4 channel (NC/NP selectable)		
	Alarm Output		1 alarm out by sensor, motion, and video loss		
Serial	RS-232C	POS	1		
	RS-485	PTZ / POS	1		
Recording	Compression		H.264		
	Multi-Operation		Quadplex (play, record, network, backup)		
	Resolution	960H	120fps	240fps	480fps
		D1	120fps	240fps	480fps
		CIF	120fps	240fps	480fps
	Recording Mode		Cont / Schedule / Motion / Sensor / Panic		
	Motion Detection		Motion detection grid		
	Recording by Channel's Resolution		Yes		
Pre-Recording		5 seconds to 30 minutes before an event			
Post Recording		5 seconds to 30 minutes after an event			
Playback	Multi-Decoding		1, 4, PIP	1, 4, 9, PIP, 1+5, 1+7	1, 4, 9, PIP, 1+5, 1+7
	Search Mode		Date/Time, Record Table, Calendar, Event, Motion, Museum, Text-In, EZ Search		
Storage	HDD	Interface Type	SATA 2.0		
		Capacity of 1 HDD	3TB		
		Internal HDD Number	1	2	
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		2 front			
User I/F	Menu Display		GUI		
	Input Method		Mouse, IR Remote Control		
Network	Interface		10/100/1000Base-TX Ethernet		
	Streaming		CIF 120fps	CIF 240fps	CIF 480fps
Network Access	Mobile Viewer		Speco Mobile (Live, Search, PTZ, 2-Way Audio)		
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		Speco Central II and SecureGuard® (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Remote for MAC and SecureGuard® (Live, PTZ)		
Features	Digital Deterrent®		Default + up to 16 custom audio files		
	Digital Zoom		Live: x2, x3, x4 / Playback: x2		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		English / French / Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
Email Notification		Yes			
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 5A		
Allowable Operating Temperature / Humidity		41° F – 104° F / 0% – 90% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		3.3 lbs.		6.8 lbs.
Dimensions	Unit Dimensions (W x H x D)		10.4" (W) x 2" (H) x 7.4" (D)		11.8" (W) x 2.4" (H) x 9.1" (D)

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## CS Wall Mount Digital Video Recorder

### D4WCS, D8WCS, D16WCS

Base Wall Mount Model

### D4WCSM, D8WCSM, D16WCSM

Wall Mount with Built-In Monitor

### D4WCSP, D8WCSP

Wall Mount with Built-In Power Supply

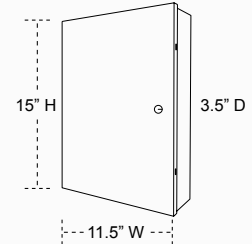
### D4WCSPM, D8WCSPM

Wall Mount with Built-In Power Supply and Monitor

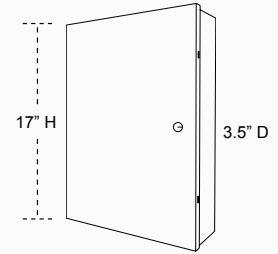
**Storage** 500GB – 2TB (see page 79 for model numbers)



Patented Design



WCS, WCSM



WCSP, WCSPM

## Features

- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 VGA, 1 BNC, 1 VGA
- A patented DVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- Free Speco DDNS service for use with dynamic IP addresses
- POS/ATM support with text overlay and searchable database
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting, Technology for HDD)
- IR remote control included - individually control up to 16 DVRs
- Free Central Management System (Speco Central) software allows viewing of multiple DVRs on a PC
- SecureGuard® compatible

- SNS communication alert via Twitter™
- Digital zoom in live mode and playback
- User Access: up to 10 concurrent users
- Hard drive status monitoring
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Password to secure installation with configurable user authentication levels
- 2-way audio communication
- PC & MAC® compatible software included
- 3 year warranty

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### Optional Accessory



**IRRPTKIT**  
IR Repeater Kit

ITEM		WCS / WCSM / WCSP / WCSPM			
Video	Input	Channel	4	8	16
		Input Level	Composite, 1.0Vp-p, 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	VGA	1 VGA (1280x1024, 1024x768, 800x600)		
		CVBS / SPOT	Main or 1 channel sequence		
Audio	Input & Output		4 line input & 1 line output		
	Audio Codec		G.726		
Alarm	Sensor Input (NC/NO Selectable)		4 channel (NO/NC)	8 channel (NO/NC)	16 channel (NO/NC)
	Alarm Output		1 alarm out by sensor, motion and video loss		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264		
	Multi-Operation		QUADPLEX (play / record / network / backup)		
	Resolution	D1	30fps	60fps	120fps
		Half D1	60fps	120fps	240fps
		CIF	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual		
	Motion Detection		Motion detection setup by grid		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		5 seconds to 30 minute before an event		
Post Recording		5 seconds to 30 minute after an event			
Playback	Multi-Decoding		1, 4	1, 4, 9	1, 4, 9, 16
	Search Mode		EZ Search, Timeline, Event, Motion and Text-in		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	2TB		
		Internal HDD Number	1		
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		2			
User I/F	Menu Display		GUI		
	Input Method		Mouse, IR Remote Control		
Network	Interface		10/100 base-TX ethernet		
	Streaming		CIF 120fps		
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		Speco Central and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Remote for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 16 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		Yes		
	Multi-Language		English / French / Spanish		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
Power Source	NTP (Network Time Protocol)		Yes		
	Power Supply Voltage		12VDC, 3A	12VDC, 5A	
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		WCS: 8.5 lbs. / WCSM: 9 lbs. / WCSP: 12 lbs. / WCSPM: 12lbs.		
Dimensions	Unit Dimensions (W x H x D)		WCS / WCSM: 11.5" (W) x 15" (H) x 3.5" (D)   WCSP / WCSPM: 13.5" (W) x 17" (H) x 3.5" (D)		

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## VS 960H Digital Video Recorder

- D4VS** 4 Channel 960H Digital Video Recorder
- D8VS** 8 Channel 960H Digital Video Recorder
- D16VS** 16 Channel 960H Digital Video Recorder

**Storage 500GB – 6TB**

D4VS500	D8VS1TB	D16VS1TB
D4VS1TB	D8VS2TB	D16VS2TB
D4VS2TB	D8VS3TB	D16VS3TB
	D8VS4TB	D16VS4TB
	D8VS6TB	D16VS6TB

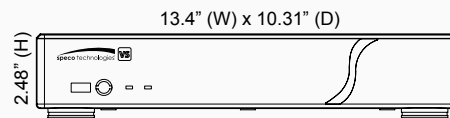


Front panel



Rear panel

D4VS shown



## Features

- EZ Setup:** for quick system setup
- EZ Network:** for quick set-up on a network
- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 HDMI®, 1 VGA, 1 CVBS
- H.264 video compression
- Networkable DVR with free Speco DDNS server
- Easy and simple graphical user interface
- Digital Deterrent® supports up to 8 audio files for triggering during sensor or motion detection
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- 4 channel audio recording
- Covert camera operation provides enhanced security and administrator control
- Password to secure installation authorization
- Switch between low and high quality stream during simultaneous Continuous + Motion or Continuous + Sensor recording modes for storage optimization

- Easy firmware upgrade by USB port or network
- Instant and convenient backup via USB flash drive or network
- Supports multiple PC based browsers such as Internet Explorer, Google Chrome, Firefox and Safari
- Simultaneous playback/record while continuing to network transfer or backup
- User Access: up to 4 concurrent users
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- Network accessible via SpecoTech Multi-Client Software, SecureGuard® CMS, Internet Explorer, Web-Viewer and Speco Player Mobile Viewer
- PC and MAC® compatible
- IR remote control and mouse included
- Digital watermarking
- 3 year warranty

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### Optional Accessories



**ERS1V**  
Vented Rack Shelf



**IRRPTKIT**  
IR Repeater Kit

ITEM		D4VS	D8VS	D16VS	
Video	Input	Channel	4	8	16
		Input Level	Composite, 1.0Vp-p, 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	HDMI®	1 HDMI (1024x768, 1280x720, 1280x1024, 1920x1080)		
		VGA	1 VGA (1024x768, 1280x720, 1280x1024, 1920x1080)		
		CVBS / Spot	1 main or 1 spot	1 main and 1 spot	
Audio	Input & Output		4 line input & 1 line output		
	Audio Codec		G.711		
Alarm	Sensor Input		4 channel (NC/NO selectable)		
	Alarm Output		1 alarm out by sensor, motion, video loss, HDD temperature and HDD failure		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264		
	Multi-Operation		QUADPLEX (play / record / network / backup)		
	Resolution	960H	120fps	240fps	240fps
		D1	120fps	240fps	240fps
		CIF	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual / Continuous + Motion / Continuous + Sensor		
	Motion Detection		Motion detection setup by grid		
	Recording by Channel's Resolution		Yes		
	Pre-Recording		Max. 20 minutes		
Post Recording		Max. 60 seconds			
Playback	Multi-Decoding		1, 4	1, 4, 8	1, 4, 9, 16
	Search Mode		EZ Search, Timeline, Event, Archive, Log		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	2 TB	3 TB	
		Internal HDD	1	2	
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		1 front, 1 rear			
User I/F	Menu Display		GUI		
	Input Method		IR, Mouse, Keyboard Controller		
Network	Interface		10/100Base-T		
	Streaming		CIF 15fps / channel max.		
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer, Chrome, Firefox, Safari (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 8 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		By video loss, HDD error		
	Multi-Language		English / Spanish / French		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
	Email Notification		Yes		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 3A	12VDC, 5A	
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		3.3 lbs.		
Dimensions	Unit Dimensions (W x H x D)		13.4" (W) x 2.48" (H) x 10.31" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/12/14

## RS Digital Video Recorder

- D4RS** 4 Channel Digital Video Recorder
- D8RS** 8 Channel Digital Video Recorder
- D16RS** 16 Channel Digital Video Recorder

**Storage** 500GB – 4TB

D4RS500	D8RS500	D16RS500
D4RS1TB	D8RS1TB	D16RS1TB
	D8RS2TB	D16RS2TB
	D8RS3TB	D16RS3TB
	D8RS4TB	D16RS4TB

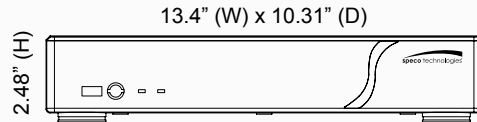


Front panel



Rear panel

D8RS shown



## Features

- EZ Search:** quickly search events from thumbnails
- EZ Record:** quickly setup recording resolutions and recording type
- EZ Copy:** auto copy what you are playing onto a USB flash drive
- Video Out: 1 VGA, 1 BNC, 1 Spot
- User Access: up to 4 concurrent users
- Easy and simple graphical user interface
- Digital Deterrent® supports up to 8 audio files for triggering during sensor or motion detection
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual
- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)

- 4 channel audio recording / 1 channel audio out
- Easy firmware upgrade by USB port or network
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- PC & MAC® compatible
- Digital watermarking
- SecureGuard® compatible
- 3 year warranty

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## Optional Accessories



**ERS1V**  
Vented Rack Shelf

**IRRPTKIT**  
IR Repeater Kit



ITEM		RS			
Video	Input	Channel	4	8	16
		Input Level	Composite, 1.0Vp-p, 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	VGA	1 VGA (1280x1024, 1024x768)		
		CVBS / SPOT	Main or 1 channel sequence		
Audio	Input & Output		4 line input & 1 line output		
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 channel (NC/NO selectable)		
	Alarm Output		1 alarm out by sensor, motion and video loss		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264		
	Multi-Operation		QUADPLEX (play / record / network / backup)		
	Resolution	D1	120fps	120fps	120fps
		Half D1	120fps	240fps	240fps
		CIF	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual		
	Motion Detection		Motion detection setup by grid		
	Recording by Channel's Resolution		Yes		
Pre-Recording		1fps for 15 seconds to 20 minutes before an event			
Post Recording		10 seconds to 60 seconds after an event			
Playback	Multi-Decoding		1, 4	1, 4, 8	1, 4, 9, 16
	Search Mode		EZ Search, Timeline, Event, Archive, Log		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	1 TB	2 TB	
		Internal HDD Number	1	2	
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		2			
User I/F	Menu Display		GUI		
	Input Method		Mouse, IR Remote Control		
Network	Interface		10/100 base-TX ethernet	10/100/1000 base-TX ethernet	
	Streaming		CIF 60fps	CIF 120fps	CIF 240fps
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 8 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		By video loss, HDD error		
	Multi-Language		English / Spanish / French		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 3A	12VDC, 5A	
Allowable Operating Temperature / Humidity			41° F – 104° F / 20% – 80% RH		
Allowable Storage Temperature			14° F – 122° F		
Weight	Unit Weight (Gross Weight)		3.3 lbs.		
Dimensions	Unit Dimensions (W x H x D)		13.4" (W) x 2.48" (H) x 10.31" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/4/14

## RS Wall Mount Digital Video Recorder

### D4WRS, D8WRS, D16WRS

Base Wall Mount Model

### D4WRSM, D8WRSM, D16WRSM

Wall Mount with Built-In Monitor

### D4WRSP, D8WRSP

Wall Mount with Built-In Power Supply

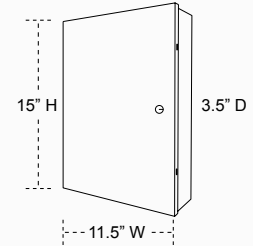
### D4WRSPM, D8WRSPM

Wall Mount with Built-In Power Supply and Monitor

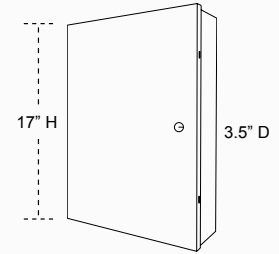
**Storage** 500GB – 4TB (see page 79 for model numbers)



Patented Design



WRS, WRSM



WRSP, WRSPM

## Features

**EZ Search:** quickly search events from thumbnails

**EZ Record:** quickly setup recording resolutions and recording type

**EZ Copy:** auto copy what you are playing onto a USB flash drive

- Video Out: 1 VGA, 1 BNC, 1 SPOT
- A patented DVR solution that easily mounts in equipment closets or electrical rooms for covert installations
- User Access: up to 4 concurrent users
- Easy and simple graphical user interface
- Digital Deterrent® supports up to 8 audio files for triggering during sensor or motion detection
- 2-way audio communication
- Programmable recording on motion detection, sensor, schedule, continuous and manual

- Built-in S.M.A.R.T. Technology (Self-Monitoring, Analysis and Reporting Technology for HDD)
- 4 channel audio recording / 1 channel audio out
- Easy firmware upgrade by USB port or network
- Remote monitoring / recording / playback / configuration / software upgrades and PTZ control via internet
- PC & MAC® compatible
- Digital watermarking
- SecureGuard® compatible
- 3 year warranty

### Free Apps with support for view on most smart devices

iPhone is a trademark of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google Inc. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/23/14



### Optional Accessory



**IRRPTKIT**  
IR Repeater Kit

ITEM		WRS / WRSM / WRSP / WRSPM			
Video	Input	Channel	4	8	16
		Input Level	Composite, 1.0Vp-p, 75 ohms		
		Signal Format	NTSC / PAL		
		Video Loss Check	Yes		
	Output	VGA	1 VGA (1280x1024, 1024x768)		
		CVBS / SPOT	Main or 1 channel sequence		
Audio	Input & Output		4 line input & 1 line output		
	Audio Codec		G.711		
Alarm	Sensor Input (NC/NO Selectable)		4 channel (NC/NO selectable)		
	Alarm Output		1 alarm out by sensor, motion and video loss		
Serial	RS-485	PTZ	1		
Recording	Compression		H.264		
	Multi-Operation		QUADPLEX (play / record / network / backup)		
	Resolution	D1	120fps	120fps	120fps
		Half D1	120fps	240fps	240fps
		CIF	120fps	240fps	480fps
	Recording Mode		Continuous / Schedule / Motion / Sensor / Manual		
	Motion Detection		Motion detection setup by grid		
	Recording by Channel's Resolution		Yes		
Pre-Recording		1fps for 15 seconds to 20 minute before an event			
Post Recording		10 seconds to 60 seconds after an event			
Playback	Multi-Decoding		1, 4	1, 4, 8	1, 4, 8, 16
	Search Mode		EZ Search, Timeline, Event, Archive, Log		
Storage	HDD	Interface Type	Serial ATA		
		Capacity of 1 HDD	1 TB	2 TB	
		Internal HDD Number	1	2	
	Backup	USB Flash Drive	Video & Still Image		
		USB External HDD	Video & Still Image		
		Network	Video & Still Image		
USB Port		2			
User I/F	Menu Display		GUI		
	Input Method		Mouse, IR Remote Control		
Network	Interface	10/100 base-TX ethernet	10/100/1000 base-TX ethernet		
	Streaming	CIF 60fps	CIF 120fps	CIF 240fps	
Network Access	Mobile Viewer		Live, Search, PTZ, 2-Way Audio		
	PC Web Viewer		Internet Explorer (Live, Search, Backup, PTZ, Remote Setup)		
	PC Client		SpecoTech Multi-Client Viewer and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
	MAC Client		Speco Client for MAC and SecureGuard® CMS (Live, Search, Backup, PTZ, Remote Setup)		
Features	Digital Deterrent®		Default + up to 8 custom audio files		
	Digital Zoom		Yes		
	DLS (Daylight Savings)		Yes		
	EZ Record		Yes		
	S.M.A.R.T		Yes		
	Internal Beep		By video loss, HDD error		
	Multi-Language		English / Spanish / French		
	Dynamic DNS		Yes (free Speco DDNS)		
	SW Upgrade		USB and remote software upgrade		
NTP (Network Time Protocol)		Yes			
Power Source	Power Supply Voltage		12VDC, 3A	12VDC, 5A	
Allowable Operating Temperature / Humidity		41° F – 104° F / 20% – 80% RH			
Allowable Storage Temperature		14° F – 122° F			
Weight	Unit Weight (Gross Weight)		WRS: 8.5 lbs. / WRSM: 9 lbs. / WRSP: 12 lbs. / WRSPM: 12.3 lbs.		
Dimensions	Unit Dimensions (W x H x D)		WRS / WRSM: 11.5" (W) x 15" (H) x 3.5" (D)   WRSP / WRSPM: 13.5" (W) x 17" (H) x 3.5" (D)		

Please note that specifications and unit exterior design are subject to change without notification. Rev. 1/23/14

## 4 Channel Mobile DVR with Built-In GPS & Cloud Archiving

### D4M500

**Storage** 500GB

D4M500

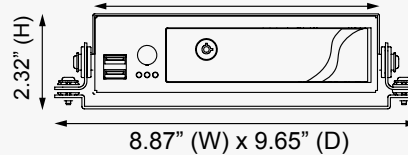
**2-WAY AUDIO**



Front panel



Rear panel



## Features

The D4M500 provides the cutting edge of mobile solutions for any type of transportation vehicle. This DVR was built upon industrial specifications that offer the most reliable mobile solution ever. It can withstand harsh conditions including shock, vibration and temperature changes.

- User Access: up to 4 concurrent users
- Cloud Archiving - Data can automatically be off loaded through the network to a central server
- Compact size for in-vehicle installation
- Multi-Storage Support - 2.5" HDD, SD card and USB
- Built-in GPS for E-Map application
- 4 channels of audio input
- Industrial standard to stand harsh temperatures without additional enclosures
- Emergency recording
- GPS data can overlay location and speed
- Remote system upgrades
- Anti-Shock and vibration tests upon military specification
- Built-in heating system
- Various event detections using built-in G-Sensor
- Email alerts and alarms include: HDD temps, HDD Full, HDD Failure
- 2-way audio communication
- Camera power provided by DVR@12V/1.6A
- Includes Speco Network Monitor software, Speco Cloud Archive software and Speco Live Tracker software
- Included with each unit: Remote control and mounting hardware
- Designed to be connected to a vehicle's power supply
- 3 year warranty



Perfect for installation in buses, emergency vehicles, police cars, trains, and more!

### Optional Accessories



**D4MAV**  
Analog adaptor for monitors



**D4MPWRCON**  
Power Connector







**DRSWMPS**  
Power Supply







Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/7/14





ITEM			D4M500
Video	Input	Channel	4
		Input Level	Composite, 1.0Vp-p, 75 ohms
		Signal Format	NTSC / PAL
	Output	CVBS	720x480
Audio	Input & Output		4 line input & 1 line output
Alarm	Sensor Input (NC/NO Selectable)		2 channel (NC/NO selectable)
	Alarm Output		2 alarm out by sensor, motion and video loss
Serial	RS-485	PTZ	1
Recording	Multi-Operation		QUADPLEX (play / record / network / backup)
	Resolution	D1	30fps
		Half D1	60fps
		CIF	120fps
	Recording Mode		Schedule / Continuous / Motion / Sensor
	Motion Detection		Motion detection setup by grid
	Recording by Channel's Resolution		Yes
	Pre-Recording		5 seconds to 30 seconds before an event
Shutdown Delay		5 minutes to 60 minutes after an event	
Playback	Multi-Decoding		1, 4, PIP
	Search Mode		Timeline, Event, Text-in
Storage	HDD	Interface Type	Serial ATA
		Capacity of 1 HDD	500GB
		Internal HDD Number	1
	Backup	USB Flash Drive	Video
		USB External HDD	Video
		Network	Video
USB Port		2	
User I/F	Menu Display		GUI
	Input Method		Mouse, IR Remote Control
Network	Interface		10/100 base-TX ethernet
	Streaming		CIF 60fps
Network Access	Mobile Viewer		Live
	PC Web Viewer		Internet Explorer (Live, Search, Remote Setup)
	PC Client		Speco Network Monitor, Cloud Archive, Live Tracker (Live, Search, Backup, PTZ, Remote Setup)
Features	Digital Deterrent®		No
	Digital Zoom		Yes
	DLS (Daylight Savings)		Yes
	GPS Antenna		Yes
	S.M.A.R.T		Yes
	Multi-Language		English / Spanish / French
	Dynamic DNS		Yes
	SW Upgrade		USB and remote software upgrade
NTP (Network Time Protocol)		Yes	
Power Source	Power Supply Voltage		12VDC, 3V max. 64W
Allowable Operating Temperature / Humidity (SD Card)			-4° F – 122° F / 0% – 80% RH
Allowable Operating Temperature / Humidity (HDD)			30° F – 104° F / 0% – 80% RH
Weight	Unit Weight (Gross Weight)		3.6 lbs.
Dimensions	Unit Dimensions (W x H x D)		8.87" (W) x 2.32" (H) x 9.65" (D)



Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/7/14

<b>WNS</b>					
<b>CH.</b>	<b>HDD</b>	<b>Base Model</b>	<b>Built-In Monitor</b>	<b>Built-In Power Supply</b>	<b>Built-In Power Supply and Monitor</b>
<b>4</b>	<b>1TB</b>	N4WNS1TB	N4WNSM1TB	N4WNSP1TB	N4WNSPM1TB
	<b>2TB</b>	N4WNS2TB	N4WNSM2TB	N4WNSP2TB	N4WNSPM2TB
	<b>3TB</b>	N4WNS3TB	N4WNSM3TB	N4WNSP3TB	N4WNSPM3TB
	<b>4TB</b>	N4WNS4TB	N4WNSM4TB	N4WNSP4TB	N4WNSPM4TB
	<b>6TB</b>	N4WNS6TB	N4WNSM6TB	N4WNSP6TB	N4WNSPM6TB
	<b>9TB</b>	N4WNS9TB	N4WNSM9TB	X	X
<b>8</b>	<b>1TB</b>	N8WNS1TB	N8WNSM1TB	N8WNSP1TB	N8WNSPM1TB
	<b>2TB</b>	N8WNS2TB	N8WNSM2TB	N8WNSP2TB	N8WNSPM2TB
	<b>3TB</b>	N8WNS3TB	N8WNSM3TB	N8WNSP3TB	N8WNSPM3TB
	<b>4TB</b>	N8WNS4TB	N8WNSM4TB	N8WNSP4TB	N8WNSPM4TB
	<b>6TB</b>	N8WNS6TB	N8WNSM6TB	N8WNSP6TB	N8WNSPM6TB
	<b>9TB</b>	N8WNS9TB	N8WNSM9TB	X	X
<b>16</b>	<b>1TB</b>	X	X	X	X
	<b>2TB</b>	N16WNS2TB	N16WNSM2TB	N16WNSP2TB	N16WNSPM2TB
	<b>3TB</b>	N16WNS3TB	N16WNSM3TB	N16WNSP3TB	N16WNSPM3TB
	<b>4TB</b>	N16WNS4TB	N16WNSM4TB	N16WNSP4TB	N16WNSPM4TB
	<b>6TB</b>	N16WNS6TB	N16WNSM6TB	N16WNSP6TB	N16WNSPM6TB
	<b>9TB</b>	N16WNS9TB	N16WNSM9TB	X	X

Please note that specifications and unit exterior design are subject to change without notification. Rev. 2/17/14

<b>WRS</b>					
CH.	HDD	Base Model	Built-In Monitor	Built-In Power Supply	Built-In Power Supply and Monitor
<b>4</b>	<b>500GB</b>	D4WRS500	D4WRSM500	D4WRSP500	D4WRSPM500
	<b>1TB</b>	D4WRS1TB	D4WRSM1TB	D4WRSP1TB	D4WRSPM1TB
<b>8</b>	<b>500GB</b>	D8WRS500	D8WRSM500	D8WRSP500	D8WRSPM500
	<b>1TB</b>	D8WRS1TB	D8WRSM1TB	D8WRSP1TB	D8WRSPM1TB
	<b>2TB</b>	D8WRS2TB	D8WRSM2TB	D8WRSP2TB	D8WRSPM2TB
	<b>3TB</b>	D8WRS3TB	D8WRSM3TB	D8WRSP3TB	D8WRSPM3TB
	<b>4TB</b>	D8WRS4TB	D8WRSM4TB	D8WRSP4TB	D8WRSPM4TB
<b>16</b>	<b>500GB</b>	D16WRS500	D16WRSM500	X	X
	<b>1TB</b>	D16WRS1TB	D16WRSM1TB	X	X
	<b>2TB</b>	D16WRS2TB	D16WRSM2TB	X	X
	<b>3TB</b>	D16WRS3TB	D16WRSM3TB	X	X
	<b>4TB</b>	D16WRS4TB	D16WRSM4TB	X	X

<b>WCS</b>					
CH.	HDD	Base Model	Built-In Monitor	Built-In Power Supply	Built-In Power Supply and Monitor
<b>4</b>	<b>500GB</b>	D4WCS500	D4WCSM500	D4WCSP500	D4WCSPM500
	<b>1TB</b>	D4WCS1TB	D4WCSM1TB	D4WCSP1TB	D4WCSPM1TB
	<b>2TB</b>	D4WCS2TB	D4WCSM2TB	D4WCSP2TB	D4WCSPM2TB
<b>8</b>	<b>500GB</b>	D8WCS500	D8WCSM500	D8WCSP500	D8WCSPM500
	<b>1TB</b>	D8WCS1TB	D8WCSM1TB	D8WCSP1TB	D8WCSPM1TB
	<b>2TB</b>	D8WCS2TB	D8WCSM2TB	D8WCSP2TB	D8WCSPM2TB
<b>16</b>	<b>500GB</b>	D16WCS500	D16WCSM500	X	X
	<b>1TB</b>	D16WCS1TB	D16WCSM1TB	X	X
	<b>2TB</b>	D16WCS2TB	D16WCSM2TB	X	X

<b>WDS</b>											
CH.	HDD	Base Model	CH.	HDD	Base Model	CH.	HDD	Built-In Monitor	CH.	HDD	Built-In Monitor
<b>8</b>	<b>1TB</b>	D8WDS1TB	<b>16</b>	<b>1TB</b>	D16WDS1TB	<b>8</b>	<b>1TB</b>	D8WDSM1TB	<b>16</b>	<b>1TB</b>	D16WDSM1TB
	<b>2TB</b>	D8WDS2TB		<b>2TB</b>	D16WDS2TB		<b>2TB</b>	D8WDSM2TB		<b>2TB</b>	D16WDSM2TB
	<b>3TB</b>	D8WDS3TB		<b>3TB</b>	D16WDS3TB		<b>3TB</b>	D8WDSM3TB		<b>3TB</b>	D16WDSM3TB
	<b>4TB</b>	D8WDS4TB		<b>4TB</b>	D16WDS4TB		<b>4TB</b>	D8WDSM4TB		<b>4TB</b>	D16WDSM4TB
	<b>6TB</b>	D8WDS6TB		<b>6TB</b>	D16WDS6TB		<b>6TB</b>	D8WDSM6TB		<b>6TB</b>	D16WDSM6TB
	<b>9TB</b>	D8WDS9TB		<b>9TB</b>	D16WDS9TB		<b>9TB</b>	D8WDSM9TB		<b>9TB</b>	D16WDSM9TB



# SecureGuard® (Software for Windows)\*

Speco's CMS software is a powerful software that allows the user to manage and monitor multiple DVRs & IP cameras

- Compatible with all Speco IP cameras and full line of DVRs/NVRs
- No licensing fees
- Free software

\*Also available for Mac with limited functionality



SecureGuard® provides access to multiple DVRs, NVRs and IP cameras for remote viewing, playback and other miscellaneous functions in order to assist surveillance personnel. The interface to the DVRs from the CMS is simple and easy to use, making it easier for the user to only have to learn one network interface.

**FREE!**

**No Licensing Fees!**

- Free, easy-to-use CMS software
- Compatible with all Speco embedded DVRs, NVRs and IP cameras
- Operates in Windows (Mac version available)
- View up to 64 cameras (IP + Analog)
- Run up to 8 instances simultaneously for multi-monitor operation
- Store unlimited number of DVR/NVR sites and IP camera sites
- Create unlimited number of users and authority roles
- Auto-detection of IP cameras for easy setup
- PTZ control through DVR and PTZ IP cameras
- Digital PTZ also available on every camera
- Live view, DVR playback, DVR export, local recording, remote configuration
- Single and multi-site playback

### New Features Coming Soon:

- EZ Search
- Schedule Recording on Continuous, Motion and Sensor Events

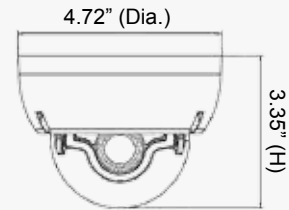


# DVR Comparison Chart

Features	NS	NSP	WNS	ZS	NVRP4	NVRWP4	PC16T	HS	LX	LS	DS	WDS	CX	WCS	VS	RS	WRS	D4M500
EZ Search	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
EZ Copy	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
EZ Record	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
EZ Network	X	X	X					X	X	X	X	X	X	X	X			
EZ Setup	X	X	X					X	X	X	X	X	X	X	X			
Digital Deterrent®	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
Remote Upgrade	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X
DDNS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E-mail	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Disk S.M.A.R.T. Check	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X
Disk Temperature Check	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X
IR Remote Control	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
System Logs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Setup Import/Export	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote Setup	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote Recording	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote PTZ Control	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote Playback	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote Monitoring	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pre-Event Recording	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Network Time Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Motion Detection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calendar Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Event Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Event Recording	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Event Notification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Event Logs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DST Setup	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Data Export with Audio	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Covert Cameras	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X
Basic Operation w/o any HDD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HDD Overwrite	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Audio Playback	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Motion Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Two-way Audio	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Digital Zoom	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Spot Monitor							X	X	X	X	X				X	X	X	
E-SATA Port	X	X	X		X	X	X	X	X	X	X							
UPnP	X	X	X					X	X	X	X	X	X					
Time-Lapse Recording					X	X	X		X	X			X	X				X
POS Interface							X		X	X			X	X				X
POS Search							X		X	X			X	X				X
POS Recording							X		X	X			X	X				X
Alarm Output	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote System Health Status	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remote Event Callback									X	X			X	X				X
PTZ Preset on Event							X		X	X			X	X				X
Panic Recording	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Museum Search							X		X	X			X	X				
Map Integration							X		X				X					X
Holiday Setup									X	X			X	X				X
Front Panel Buttons	X	X					X	X	X	X	X		X					
Freeze									X	X			X	X				X
Bookmark Search					X	X	X		X	X			X	X				
Bandwidth Control							X		X	X			X	X				X
Printer Interface							X											
On-Live Playback							X		X				X					
Looping Outputs							X		X	X								
Cloud Archiving					X	X	X											X
Object Detection							X											
DVDRW							X		X	X								
Rack Mount	X	X					X	X	X	X	X							
Wizards	X	X	X					X	X	X	X	X	X	X				
Twitter									X	X			X	X				
# of HDDs Supported	3	2	3	1	1	1	3	3	3	3	3	3	2	1	2	2	2	1
# of Audio Channels Supported	16	16	16	4	1	4	16	16	4	4	16	16	4	4	4	4	4	4
Optional Camera Power Supply (Wall Mount)			X			X							X				X	
Optional Monitor (Wall Mount)			X		X							X		X			X	

## Intensifier K™ 1000 TVL Indoor/Outdoor Vandal Resistant Dome with True WDR

**HTINT59K** 2.8-12mm auto-iris varifocal lens, dark grey housing



### Features

- 1/3" 1.3MP Sony Sensor
- 1000 TV lines highest resolution in analog
- True WDR functionality
- Superior low-light performance
- Amplify existing light with no distance limitation
- Heater circuitry eliminates fog or condensation under any weather condition
- Presets include Indoor, Outdoor, Low Light, Hallway, Lobby (WDR), Elevator
- 12VDC & 24VAC dual voltage operation
- Relay output for motion detection
- 3-axis wall and ceiling mount
- Vandal / tamper resistant operation
- IP67 compliant
- 5 year warranty

### Specifications

Image Sensor .....	1/3" 1.3MP Sony Sensor	AGC .....	0 - 20 (level adjustable)
Resolution .....	1000 TV lines	Sense-Up .....	(x2 - x32)
Minimum Illumination .....	0.0001 lux	Motion Tracking .....	On / Off
Effective Pixels .....	1305 (H) x 1049 (V)	Motion Detection .....	On / Off (4 zones)
Total Pixels .....	1312 (H) x 1069 (V)	Privacy .....	On / Off (16 zones)
TV System .....	NTSC	Mirror / V-Flip .....	On / Off
Scanning System .....	Progressive	Sharpness .....	0 - 15 (level adjustable)
S/N Ratio .....	More than 50dB	Lens Shading Compensation .....	On / Off
Frame rate .....	Max 50P/60P	3DNR .....	Off / Low / Middle / High
Video Output .....	1.0Vp-p / 75 ohms	Defog .....	On (Auto / Manual) / Off
Lens .....	DC / Manual	DIS .....	On / Off
Electronic Shutter Speed .....	Auto / Manual	Power Supply .....	12VDC / 24VAC dual voltage operation
	(1/60 sec. - 1/60,000 sec.) / Flicker		(power supply not included)
WDR .....	On (Low / Middle / High) / Off	Power Consumption .....	12VDC, 590mA / 24VAC, 230mA
Digital WDR .....	On (Low / Middle / High) / Off	Operating Temperature .....	-4° F - 140° F
Day/Night .....	Color / BW / Auto / Ext	Dimensions .....	4.72" (Dia.) x 3.35" (H)
White Balance .....	Auto / Auto Ext / AWC - SET / Manual	Weight .....	2.2 lbs.
Brightness .....	0 - 20 (level adjustable)		

### Optional Accessories



**INTPM**  
Pendant Mount  
(use with 59PLATE  
and CVCJBD)



**INTWM**  
Wall Mount  
(use with 59PLATE  
and CVCJBD)



**CVCJBD**  
Dome Camera  
Junction Box  
(use with 59PLATE)



**59PLATE**  
Adaptor Plate



**PSW4**  
24VAC  
Power Supply



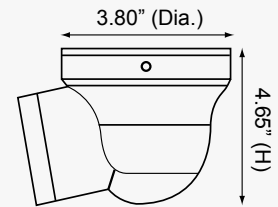
**PSW5**  
12VDC  
Power Supply



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## Intensifier K™ 1000 TVL Indoor/ Outdoor Vandal Resistant Dome/ Turret with True WDR

**HTINT60K** 2.8-12mm auto-iris varifocal lens, dark grey housing



### Features

- 1/3" 1.3MP Sony Sensor
- 1000 TV lines highest resolution in analog
- True WDR functionality
- Superior low-light performance
- Amplify existing light with no distance limitation
- Heater circuitry eliminates fog or condensation under any weather condition
- Presets include Indoor, Outdoor, Low Light, Hallway, Lobby (WDR), Elevator
- 12VDC & 24VAC dual voltage operation
- Relay output for motion detection
- 3-axis wall and ceiling mount
- Vandal / tamper resistant operation
- IP67 compliant
- 5 year warranty

### Specifications

Image Sensor .....	1/3" 1.3MP Sony Sensor	AGC .....	0 - 20 (level adjustable)
Resolution .....	1000 TV lines	Sense-Up .....	(x2 – x32)
Minimum Illumination .....	0.0001 lux	Motion Tracking .....	On / Off
Effective Pixels .....	1305 (H) x 1049 (V)	Motion Detection .....	On / Off (4 zones)
Total Pixels .....	1312 (H) x 1069 (V)	Privacy .....	On / Off (16 zones)
TV System .....	NTSC	Mirror / V-Flip .....	On / Off
Scanning System .....	Progressive	Sharpness .....	0 - 15 (level adjustable)
S/N Ratio .....	More than 50dB	Lens Shading Compensation .....	On / Off
Frame Rate .....	Max 50P/60P	3DNR .....	Off / Low / Middle / High
Video Output .....	1.0Vp-p / 75 ohms	Defog .....	On (Auto / Manual) / Off
Lens .....	DC / Manual	DIS .....	On / Off
Electronic Shutter Speed .....	Auto / Manual	Power Supply .....	12VDC / 24VAC dual voltage operation
	(1/60 sec. - 1/60,000 sec.) / Flicker		(power supply not included)
WDR .....	On (Low / Middle / High) / Off	Power Consumption .....	12VDC, 570mA / 24VAC, 220mA
Digital WDR .....	On (Low / Middle / High) / Off	Operating Temperature .....	-4° F – 140° F
Day/Night .....	Color / BW / Auto / Ext	Dimensions .....	3.80" (Dia.) x 4.65" (H)
White Balance .....	Auto / Auto Ext / AWC – SET / Manual	Weight .....	4.4 lbs.
Brightness .....	0 - 20 (level adjustable)		

### Optional Accessories



**INTPM**  
Pendant Mount  
(use with 60PLATE  
and CVCJBD)



**INTWM**  
Wall Mount  
(use with 60PLATE  
and CVCJBD)



**CVCJBD**  
Dome Camera  
Junction Box  
(use with 60PLATE)



**60PLATE**  
Adaptor Plate



**PSW4**  
24VAC  
Power Supply



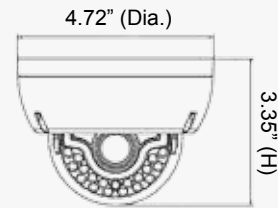
**PSW5**  
12VDC  
Power Supply



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## 1000 TVL Indoor/Outdoor IR Vandal Resistant Dome with True WDR

**HT5940K** 2.8-12mm auto-iris varifocal lens, dark grey housing



### Features

- 1/3" 1.3MP Sony Sensor
- 1000 TV lines highest resolution in analog
- True WDR functionality
- 12VDC & 24VAC dual voltage operation
- 3-axis wall and ceiling mount
- Vandal / tamper resistant operation
- IP67 compliant
- 5 year warranty

### Specifications

Image Sensor .....	1/3" 1.3MP Sony Sensor	Brightness.....	0 - 20 (level adjustable)
Resolution.....	1000 TV lines	AGC.....	0 - 20 (level adjustable)
Minimum Illumination.....	0 lux (IR LEDs on)	Smart-IR .....	0 - 20 (level adjustable)
Effective Pixels .....	1305 (H) x 1049 (V)	Sense-Up.....	(x2 - x32)
Total Pixels .....	1312 (H) x 1069 (V)	Motion Tracking .....	On / Off
TV System .....	NTSC	Motion Detection.....	On / Off (4 zones)
Scanning System.....	Progressive	Privacy.....	On / Off (16 zones)
Number IR LEDs .....	18	Mirror / V-Flip.....	On / Off
IR Range .....	Up to 66 ft. (depending on scene reflection)	Sharpness .....	0 - 15 (level adjustable)
IR LED Wavelength .....	850nm	Lens Shading Compensation .....	On / Off
S/N Ratio .....	More than 50dB	3DNR.....	Off / Low / Middle / High
Frame Rate.....	Max 50P/60P	Defog.....	On (Auto / Manual) / Off
Video Output.....	1.0Vp-p / 75 ohms	DIS.....	On / Off
Lens.....	DC / Manual	Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Electronic Shutter Speed.....	Auto / Manual (1/60 sec. - 1/60,000 sec.) / Flicker	Power Consumption .....	12VDC, 450mA / 24VAC, 190mA
WDR.....	On (Low / Middle / High) / Off	Operating Temperature.....	-4° F - 140° F
Digital WDR.....	On (Low / Middle / High) / Off	Dimensions.....	4.72" (Dia.) x 3.35" (H)
Day/Night.....	Color / BW / Auto / Ext	Weight .....	2.2 lbs.
White Balance .....	Auto / Auto Ext / AWC - SET / Manual		

### Optional Accessories



**INTPM**  
Pendant Mount  
(use with 59PLATE  
and CVCJBD)



**INTWM**  
Wall Mount  
(use with 59PLATE  
and CVCJBD)



**CVCJBD**  
Dome Camera  
Junction Box  
(use with 59PLATE)



**59PLATE**  
Adaptor Plate



**PSW4**  
24VAC  
Power Supply



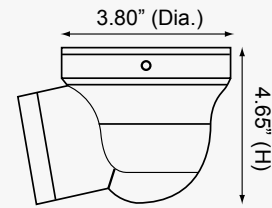
**PSW5**  
12VDC  
Power Supply



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## 1000 TVL Indoor/Outdoor IR Vandal Resistant Dome/Turret with True WDR

**HT6040K** 2.8-12mm auto-iris varifocal lens, dark grey housing



### Features

- 1/3" 1.3MP Sony Sensor
- 1000 TV lines highest resolution in analog
- True WDR functionality
- 12VDC & 24VAC dual voltage operation
- 3-axis wall and ceiling mount
- Vandal / tamper resistant operation
- IP67 compliant
- 5 year warranty

### Specifications

Image Sensor .....1/3" 1.3MP Sony Sensor	Brightness.....0 - 20 (level adjustable)
Resolution.....1000 TV lines	AGC.....0 - 20 (level adjustable)
Minimum Illumination.....0 lux (IR LEDs on)	Smart-IR .....0 - 20 (level adjustable)
Effective Pixels .....1305 (H) x 1049 (V)	Sense-Up.....(x2 – x32)
Total Pixels .....1312 (H) x 1069 (V)	Motion Tracking .....On / Off
TV System .....NTSC	Motion Detection.....On / Off (4 zones)
Scanning System.....Progressive	Privacy.....On / Off (16 zones)
Number IR LEDs .....21	Mirror / V-Flip.....On / Off
IR Range .....Up to 80 ft. (depending on scene reflection)	Sharpness .....0 - 15 (level adjustable)
IR LED Wavelength .....850nm	Lens Shading Compensation .....On / Off
S/N Ratio .....More than 50dB	3DNR.....Off / Low / Middle / High
Frame Rate.....Max 50P/60P	Defog.....On (Auto / Manual) / Off
Video Output.....1.0Vp-p / 75 ohms	DIS.....On / Off
Lens.....DC / Manual	Power Supply .....12VDC / 24VAC dual voltage operation (power supply not included)
Electronic Shutter Speed.....Auto / Manual	Power Consumption .....12VDC, 450mA / 24VAC, 190mA
(1/60 sec. - 1/60,000 sec.) / Flicker	Operating Temperature.....-4° F – 140° F
WDR.....On (Low / Middle / High) / Off	Dimensions.....3.80" (Dia) x 4.65" (H)
Digital WDR.....On (Low / Middle / High) / Off	Weight .....4.4 lbs.
Day/Night.....Color / BW / Auto / Ext	
White Balance .....Auto / Auto Ext / AWC – SET / Manual	

### Optional Accessories



**INTPM**  
Pendant Mount  
(use with 60PLATE  
and CVCJBD)



**INTWM**  
Wall Mount  
(use with 60PLATE  
and CVCJBD)



**CVCJBD**  
Dome Camera  
Junction Box  
(use with 60PLATE)



**60PLATE**  
Adaptor Plate



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



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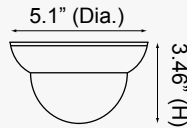
## Intensifier H® Series Indoor/Outdoor Vandal Dome Camera

See Color In Almost Complete Darkness Without IR LEDs

**HT7246H** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- 1/3" Sony Super HAD™ CCD
- 700 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Heater circuitry eliminates fog or condensation under any weather condition
- Minimum illumination 0.00002 lux (Intensify @ 512x)
- Now with presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- Chameleon Cover™: snaps on and can be painted to match any décor!
- 12VDC / 24VAC dual voltage operation
- Full OSD operation
- 3 axis lens mount
- Vandal resistant operation
- Weather resistant operation
- IP66 compliant
- Anti-moisture glass and circuitry eliminates fog or condensation under any weather condition
- Relay outputs for motion detection
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™

### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution .....	700 TV lines
Minimum Illumination .....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System .....	NTSC
Scanning Frequency .....	15.734kHz (H) & 59.94Hz (V)
Scanning System .....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed .....	1/60 sec. – 1/120,000 sec.
OSD .....	Available
DWDR .....	On / Off (level adjustable)
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Color / BW / Auto / Ext

AGC .....	High / Low / Off
White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K – 11,000°K)
Intensify .....	Auto / Off (selectable x2 – x512)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR .....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 380mA / 24VAC, 170mA
Operating Temperature .....	-4° F – 140° F
Dimensions .....	3.46" (H) x 5.1" (Dia.)
Weight .....	1 lb.

### Optional Accessories



**INTPM**  
Pendant Mount



**CVCJBD**  
Dome Camera Junction Box



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling Flush Mount



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply

\*Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/20/14

## Intensifier H® Series Miniature Weather/Vandal/Tamper Resistant Dome Camera with Chameleon Cover™

See Color In Almost Complete Darkness Without IR LEDs

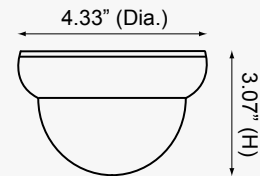
**HINT13H** 3.6mm fixed lens, dark grey housing

### Features

- 1/3" Sony Super HAD™ CCD
- 700 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensify @ 512x)
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- Full OSD operation
- Now with presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- Wall or ceiling mount
- 12VDC / 24VAC dual voltage operation
- Vandal resistant operation: can withstand hits from a 10 lb. sledgehammer!
- Tamper resistant operation: tamperproof screws for enhanced security
- Weather resistant operation: good for indoor or outdoor usage
- IP66 compliant
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	700 TV lines
Minimum Illumination.....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization.....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. – 1/120,000 sec.
OSD.....	Available
DWDR .....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto
AGC.....	High / Low / Off

White Balance .....	ATW / Indoor / Outdoor / Manual AWC (1,700°K – 11,000°K)
Intensify .....	Auto / Off (selectable x2 - x512)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (8 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 8x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 130mA / 24VAC, 75mA
Operating Temperature.....	-20° F – 122° F
Dimensions.....	3.07" (H) x 4.33" (Dia.)
Weight .....	1.54 lbs.

\* Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/17/14



### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

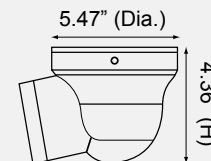
## Intensifier H® Series Indoor/Outdoor Dome/Turret Camera

See Color In Almost Complete Darkness Without IR LEDs

- HTINTD8H** 2.8 -12mm auto iris varifocal lens, dark grey housing  
**HTINTD8HW** 2.8 -12mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD™ CCD
- 700 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensify @ 512x)
- Now with presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 12VDC / 24VAC dual voltage operation
- Full OSD operation and test monitor output
- 3-axis wall or ceiling mount
- External controls for zoom & focus
- EZ mount system simplifies installation
- Relay outputs for motion detection
- Weather resistant operation
- IP66 compliant
- Anti-moisture glass and circuitry eliminates fog or condensation under any weather condition
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution .....	700 TV lines
Minimum Illumination .....	0.00002 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System .....	NTSC
Scanning Frequency .....	15.734kHz (H) / 59.94Hz (V)
Scanning System .....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed .....	1/60 sec. - 1/120,000 sec.
OSD .....	Available
DWDR .....	On / Off (level adjustable)
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Color / BW / Auto / Ext
AGC .....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K – 11,000°K)
Intensify .....	Auto / Off (selectable 2x – 512x)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR .....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Consumption .....	12VDC, 400mA / 24VAC, 170mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature .....	- 4° F – 140° F
Dimensions .....	4.36" (H) x 5.47" (Dia.)
Weight .....	3.08 lbs.

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### Optional Accessories



**INTPM**  
Pendant Mount



**JB03TG**  
Large Round Junction Box



**INTWM**  
Wall Mount



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply



## 960H Wide Dynamic Range Indoor/Outdoor IR Dome Camera

**WDRD10H** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- True WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" Sony Super HAD™ CCD
- 700 TV lines of resolution
- 28 IR LEDs
- Highest resolution: vivid sharp picture in complete darkness
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- 3DNR (digital noise reduction)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™



### Specifications

Image Sensor	1/3" Sony Super HAD™ CCD (dual scan)
Resolution	700 TV lines
Minimum Illumination	0.000006 lux @ F1.2 / IR LED On
Effective Pixels	976 (H) x 494 (V)
Total Pixels	1028 (H) x 508 (V)
TV System	NTSC
Scanning System	2:1 interlace
Number of IR LEDs	28
IR Range	98 ft. (depending on scene reflection)
IR LED Wavelength	850nm
S/N Ratio	52dB
Video Output	1.0Vp-p / 75 ohms
Backlight Compensation	BLC / HLC / Off
Day/Night	Auto / Color / BW / Ext
AGC	High / Middle / Low
Sense-Up	Auto / Off (x2 – x512)
White Balance	ATW / AWB / AWC – Set / Manual (1,800°K – 10,500°K)
Mirror	H-Rev / V-Rev / Rotate / PIP

Digital Zoom	x16
Defect Compensation	Auto (64 points)
3DNR	Off / Low / Mid. Low / Mid. High / High
DIS	On / Off
Power Supply	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption	12VDC, 500mA / 24VAC, 250mA
Storage Temperature/	
Humidity	-4° F – 140° F / 20% – 95% RH
Operating Temperature/	
Humidity	-4° F – 140° F / 20% – 80% RH
Dimensions	5.12" (Dia.) x 3.94" (H)
Weight	1.98 lbs.



WDR



no WDR

### Optional Accessories



**INTPM**  
Pendant  
Mount



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling  
Flush Mount



**INTCM**  
Corner/Pole  
Adaptor  
(use with INTWM)



**CVCJBD**  
Dome Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



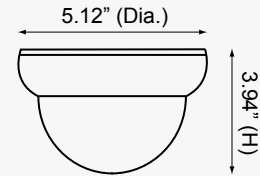
\* Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/20/14

## 960H Wide Dynamic Range Indoor/Outdoor Vandal Resistant Dome Camera

**WDRD11H** 2.8-12mm auto iris varifocal lens, dark grey housing



Shown with included paintable, snap-on Chameleon Cover™



### Features

- True WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" Sony Super HAD™ CCD
- 700 TV lines of resolution
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- 3DNR (digital noise reduction)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....1/3" Sony Super HAD™ CCD (dual scan)  
 Resolution.....700 TV lines  
 Minimum Illumination.....0.000006 lux  
 Effective Pixels .....976 (H) x 494 (V)  
 Total Pixels .....1028 (H) x 508 (V)  
 TV System.....NTSC  
 Scanning System.....2:1 interlace  
 S/N Ratio .....52dB  
 Video Output.....1.0Vp-p / 75 ohms  
 Backlight Compensation.....BLC / HLC / Off  
 Day/Night.....Auto / Color / BW / Ext  
 AGC.....High / Middle / Low  
 Sense-Up.....Auto / Off (x2 – x512)  
 White Balance .....ATW / AWB / AWC – Set /  
 Manual (1,800°K – 10,500°K)

Mirror .....H-Rev / V-Rev / Rotate / PIP  
 Digital Zoom .....x16  
 Defect Compensation.....Auto (64 points)  
 3DNR.....Off / Low / Mid. Low / Mid. High / High  
 DIS.....On / Off  
 Power Supply .....12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Power Consumption .....12VDC, 400mA / 24VAC, 170mA  
 Storage Temperature/  
 Humidity.....-4° F – 140° F / 20% – 95% RH  
 Operating Temperature/  
 Humidity.....-4° F – 140° F / 20% – 80% RH  
 Dimensions.....5.12" (Dia.) x 3.94" (H)  
 Weight .....1.98 lbs.



WDR



no WDR

### Optional Accessories



**INTPM**  
Pendant  
Mount



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling  
Flush Mount



**INTCM**  
Corner/Pole  
Adaptor  
(use with INTWM)



**CVCJBD**  
Dome Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



\* Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/17/14

## 960H 700 TVL Indoor/Outdoor IR Dome Camera with Chameleon Cover™

**HT670H** 4mm fixed lens, dark grey housing

**HT671H** 2.8-12mm auto iris varifocal lens, dark grey housing



Shown with included paintable, snap-on Chameleon Cover™



### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- 28 IR LEDs
- Chameleon Cover™: snaps on and can be painted to match any décor\*
- Highest resolution: vivid sharp picture in complete darkness
- No noise, ghosting effect with DNR
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- De-fog
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor ..... 1/3" 960H color CCD  
 Resolution.....700 TV lines  
 Minimum Illumination.....0.01 lux @ F1.2 / IR LED On  
 Effective Pixels .....976 (H) x 494 (V)  
 Total Pixels .....1020 (H) x 508 (V)  
 TV System.....NTSC  
 Scanning System.....2:1 interlace  
 Number of IR LEDs .....28  
 IR Range .....98 ft. (depending on scene reflection)  
 IR LED Wavelength .....850nm  
 S/N Ratio .....52dB  
 Video Output.....1.0Vp-p / 75 ohms  
 DWDR .....Outdoor / Indoor / Off  
 Backlight Compensation.....BLC / HLC / Off  
 Day/Night.....Auto / Day / Night / Ext  
 AGC.....High / Middle / Low  
 Sense-Up.....Auto / Off (x2 – x256)  
 White Balance .....ATW / AWB / AWC – Set / Manual (1,800°K – 11,000°K)

Privacy Masking .....8 zones  
 Mirror .....H-Rev / V-Rev / Rotate / PIP  
 Digital Zoom .....x32  
 Smart Digital Zoom.....On / Off  
 De-Fog.....Manual / Auto / Off  
 Defect Compensation.....Auto (512 points)  
 3DNR.....1 – 200 level selectable  
 DIS.....On / Off  
 Power Supply .....12VDC / 24VAC dual voltage operation (power supply not included)  
 Power Consumption .....12VDC, 500mA / 24VAC, 250mA  
 Storage Temperature/  
 Humidity.....-4° F – 140° F / 20% – 95% RH  
 Operating Temperature/  
 Humidity.....-4° F – 140° F / 20% – 95% RH  
 Dimensions.....3.94" (H) x 5.12" (Dia.)  
 Weight .....1.98 lb.

### Optional Accessories



**INTPM**  
Pendant Mount



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling Flush Mount



**INTCM**  
Corner/Pole Adaptor  
(use with INTWM)



**CVCJBD**  
Dome Camera Junction Box



**PSW4**  
24VAC Power Supply



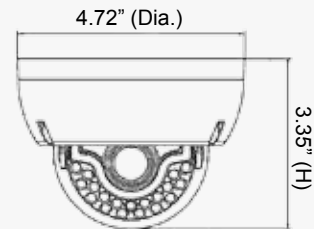
**PSW5**  
12VDC Power Supply



\* Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/20/14

## 960H 700 TVL Indoor/Outdoor IR Miniature Dome Camera

**HT5940H** 2.8-12mm auto iris varifocal lens, dark grey housing



### Features

- 1/3" 960H Color CCD
- 700 TV lines of resolution
- 18 IR LEDs
- Highest resolution: vivid sharp picture in complete darkness
- No noise, ghosting effect with DNR
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- De-fog
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" 960H color CCD
Resolution .....	700 TV lines
Minimum Illumination .....	0.01 lux @ F1.2 / IR LED On
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System .....	NTSC
Scanning System .....	2:1 interlace
Number of IR LEDs .....	18
IR Range .....	66 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
S/N Ratio .....	52dB
Video Output .....	1.0Vp-p / 75 ohms
DWDR .....	Outdoor / Indoor / Off
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Auto / Day / Night / Ext
AGC .....	High / Middle / Low
Sense-Up .....	Auto / Off (x2 – x256)
White Balance .....	ATW / AWB / AWC – Set / Manual (1,800°K – 11,000°K)

Privacy Masking .....	8 zones
Mirror .....	H-Rev / V-Rev / Rotate / PIP
Digital Zoom .....	x32
Smart Digital Zoom .....	On / Off
De-Fog .....	Manual / Auto / Off
Defect Compensation .....	Auto (512 points)
3DNR .....	1 – 200 level selectable
DIS .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 400mA / 24VAC, 90mA
Storage Temperature / Humidity .....	-4° F – 140° F / 20% – 95% RH
Operating Temperature / Humidity .....	-4° F – 140° F / 20% – 95% RH
Dimensions .....	3.35" (H) x 4.72" (Dia.)
Weight .....	2.20 lbs.

### Optional Accessories



**INTPM**  
Pendant Mount  
(use with CVCJBD and 59PLATE)



**INTWM**  
Wall Mount  
(use with CVCJBD and 59PLATE)



**59PLATE**  
Adaptor Plate  
(use with CVCJBD)



**CVCJBD**  
Dome Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



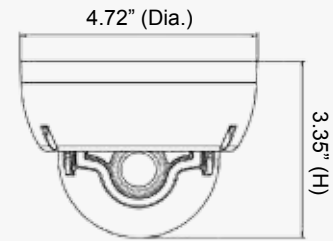
Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/21/14

## 960H 700 TVL Indoor/Outdoor Miniature Dome Camera

**HT5935H** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- No noise, ghosting effect with DNR
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- De-fog
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor .....	1/3" 960H color CCD
Resolution.....	700 TV lines
Minimum Illumination.....	Color: 0.01 lux @ F1.2 BW: 0.001 lux @ F1.2
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System.....	NTSC
Scanning System.....	2:1 interlace
S/N Ratio .....	52dB
Video Output.....	1.0Vp-p / 75 ohms
DWDR .....	Outdoor / Indoor / Off
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Auto / Day / Night / Ext
AGC.....	High / Middle / Low
Sense-Up.....	Auto / Off (x2 – x256)
White Balance .....	ATW / AWB / AWC – Set / Manual (1,800°K – 11,000°K)

Privacy Masking .....	8 zones
Mirror .....	H-Rev / V-Rev / Rotate / PIP
Digital Zoom .....	x32
Smart Digital Zoom.....	On / Off
De-Fog.....	Manual / Auto / Off
Defect Compensation.....	Auto (512 points)
3DNR.....	1 – 200 level selectable
DIS.....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12 VDC, 200mA / 24VAC. 80mA
Storage Temperature/	
Humidity.....	-4° F – 140° F / 20% – 95% RH
Operating Temperature/	
Humidity.....	-4° F – 140° F / 20% – 95% RH
Dimensions.....	3.35" (H) x 4.72" (Dia.)
Weight .....	2.20 lbs.

### Optional Accessories



**INTPM**  
Pendant Mount  
(use with CVCJBD  
and 59PLATE)



**INTWM**  
Wall Mount  
(use with CVCJBD  
and 59PLATE)



**59PLATE**  
Adaptor Plate  
(use with CVCJBD)



**CVCJBD**  
Dome Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/21/14

## 960H Indoor/Outdoor IR Dome Camera with 10x Optical Motorized Zoom

**HTD10XH** 3.8-38mm auto iris varifocal lens (10x optical zoom), dark grey housing



Shown with included paintable, snap-on Chameleon Cover™



### Features

- 1/3" Sony ExView™ CCD
- 700 TV lines of resolution
- 28 IR LEDs
- Highest resolution: vivid sharp picture in complete darkness
- Motorized zoom lens control via RS485
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....1/3" Sony ExView™ CCD

Resolution.....700 TV lines

Minimum Illumination.....0 lux

Effective Pixels .....976 (H) x 494 (V)

Total Pixels .....1028 (H) x 508 (V)

TV System.....NTSC

Scanning System.....2:1 interlace

Number of IR LEDs .....28

IR Range .....98 ft. (depending on scene reflection)

IR LED Wavelength .....850nm

S/N Ratio .....52dB

Video Output.....1.0Vp-p / 75 ohms

Backlight Compensation.....On / Off

Day/Night.....Auto / Color / BW / Ext

AGC.....High / Middle / Low

Sense-Up.....Auto / Off (x2 – x256)

White Balance .....ATW / AWB / AWC – Set /

Manual (1,800°K – 10,500°K)

Mirror .....H-Rev / V-Rev / Rotate / PIP

Digital Zoom .....x12

Defect Compensation.....Auto (256 points)

3DNR.....On / Off / Smart

DIS.....On / Off

Power Supply .....12VDC / 24VAC dual voltage operation  
(power supply not included)

Power Consumption .....12VDC, 700mA / 24VAC, 350mA

Storage Temperature/

Humidity.....-4° F – 140° F / 20% – 95% RH

Operating Temperature/

Humidity.....-4° F – 140° F / 20% – 80% RH

Dimensions.....5.12" (Dia.) x 3.94" (H)

Weight .....1.98 lbs.

### Optional Accessories



**INTPM**  
Pendant  
Mount



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling  
Flush Mount



**INTCM**  
Corner/Pole  
Adaptor  
(use with INTWM)



**CVCJBD**  
Dome Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



\* Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/20/14

## Intensifier3® Series Indoor/Outdoor Vandal Resistant Dome Camera with Chameleon Cover™

See Color In Almost Complete Darkness Without IR LEDs

- HT7246iHR** 2.8 -12mm DC auto iris varifocal lens, dark grey housing
- HT7247iHR** 9 - 22mm DC auto iris varifocal lens, dark grey housing
- HT7250iHR** 5 - 50mm DC auto iris varifocal lens, dark grey housing

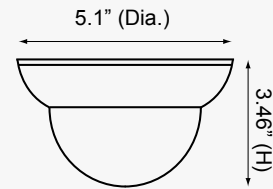
### Features

- 1/3" Sony Super HAD II™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Heater circuitry eliminates fog or condensation under any weather condition
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- 12VDC / 24VAC dual voltage operation
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 3 axis lens mount
- Vandal resistant operation
- Weather resistant operation
- IP66 compliant
- Relay outputs for motion detection
- 5 year warranty

INT 3



Shown with included paintable, snap-on \*Chameleon Cover™



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD	AGC.....	High / Low / Off
Resolution.....	650 TV lines	White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)
Minimum Illumination.....	CDS Off: 0.15 lux CDS On: 0.00002 lux	Intensifier3® .....	Auto / Off (selectable x2 - x512)
Effective Pixels .....	768 (H) x 494 (V)	Motion Detection.....	On / Off (8 programmable zones)
Total Pixels .....	811 (H) x 508 (V)	Privacy Masking .....	On / Off (12 programmable zones)
TV System.....	NTSC, PAL	Speco DNR.....	On / Off (level adjustable)
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)	Digital Zoom .....	On / Off (1x - 16x)
Scanning System.....	2:1 interlace	DIS.....	On / Off
Synchronization .....	Internal	Sharpness .....	On / Off (level adjustable)
S/N Ratio .....	More than 52dB	Flip / Mirror .....	On / Off
Video Output.....	CVBS: 1.0Vp-p / 75 ohms	Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Electronic Shutter Speed.....	1/60 sec. - 1/120,000 sec.	Power Consumption .....	12VDC, 380mA / 24VAC, 170mA
OSD.....	Available	Operating Temperature.....	-4° F – 140° F
WDR.....	On / Off (level adjustable)	Dimensions.....	3.46" (H) x 5.1" (Dia.)
Backlight Compensation.....	BLC / HLC / Off	Weight .....	1 lb.
Day/Night.....	Color / BW / Auto		

### Optional Accessories



**INTPM**  
Pendant Mount



**CVCJBD**  
Dome Camera Junction Box



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling Flush Mount Accessory



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply



\*Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Rev. 6/28/13

## Intensifier3® Series Miniature Weather/Vandal/Tamper Resistant Dome Camera with Chameleon Cover™

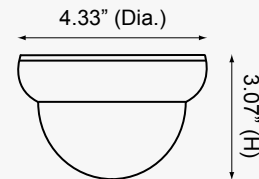
See Color In Almost Complete Darkness Without IR LEDs

**HINT13D7G** 3.6mm fixed lens, dark grey housing

**INT  
3**



Shown with included paintable, snap-on Chameleon Cover™



### Features

- 1/3" Sony Super HAD™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Hallway & Dark
- Wall or ceiling mount
- 12VDC / 24VAC dual voltage operation
- Vandal resistant operation: can withstand hits from a 10 lb.sledgehammer!
- Tamper resistant operation: tamperproof screws for enhanced security
- Weather resistant operation: good for indoor or outdoor usage
- IP66 compliant
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	650 TV lines
Minimum Illumination.....	Shutter: 0.03 lux Intensifier3®: 0.00002 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	Auto / AFLK (1/60 sec. - 1/90,000 sec.)
OSD.....	Available
WDR.....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto

AGC.....	High / Middle / Low / Off
White Balance .....	ATW1 / ATW2 / ATW set / Manual
Intensifier3® .....	Auto / Off (selectable x2 - x512)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (8 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 8x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 130mA / 24VAC, 75mA
Operating Temperature.....	-20° F – 122° F
Dimensions.....	3.07" (H) x 4.33" (Dia.)
Weight .....	1.54 lbs.

\*Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 5/28/13



### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



## Intensifier3® Series Weather/Tamper Resistant Focus Free Dome Camera with Chameleon Cover™

See Color In Almost Complete Darkness Without IR LEDs

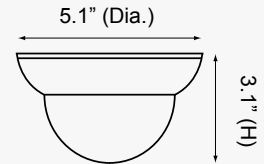
### HT7248FFi

2.8 - 10mm auto iris focus free motorized zoom lens, dark grey housing

**INT  
3**



Shown with included paintable, snap-on Chameleon Cover™



### Features

- 1/3" Sony Super HAD II™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Heater circuitry eliminates fog or condensation under any weather condition
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- 12VDC / 24VAC dual voltage operation
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- Wall or ceiling mount
- External controls for zoom & focus
- S/N Ratio more than 52dB (weight on)
- Weather resistant operation
- IP66 compliant
- Vandal resistant operation
- EZ mount system simplifies installation
- Relay outputs for motion detection
- 5 year warranty

### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ CCD  
 Resolution..... 650 TV lines  
 Minimum Illumination..... CDS Off: 0.15 lux / CDS On: 0.00002 lux  
 Total Pixels ..... 811 (H) x 508 (V)  
 Effective Pixels ..... 768 (H) x 494 (V)  
 TV System..... NTSC, PAL  
 Scanning Frequency..... 15.734kHz (H) & 59.94Hz (V)  
 Scanning System ..... 2:1 interlace  
 Synchronization..... Internal  
 S/N Ratio ..... More than 52dB  
 Video Output..... CVBS: 1.0Vp-p / 75 ohms  
 Electronic Shutter Speed.... 1/60 sec. - 1/120,000 sec.  
 OSD..... Available  
 WDR..... On / Off (level adjustable)  
 Backlight Compensation .... BLC / HLC / Off  
 Day/Night..... Color / BW / Auto  
 AGC..... High / Low / Off  
 White Balance ..... ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)

Intensifier3® ..... Auto / Off (selectable x2 - x512)  
 Motion Detection ..... On / Off (8 programmable zones)  
 Privacy Masking ..... On / Off (12 programmable zones)  
 Speco DNR..... On / Off (level adjustable)  
 Digital Zoom ..... On / Off (1x - 16x)  
 DIS..... On / Off  
 Sharpness ..... On / Off (level adjustable)  
 Flip / Mirror ..... On / Off  
 Power Supply ..... 12VDC / 24VAC dual voltage operation (power supply not included)  
 Power Consumption ..... 12VDC, 380mA / 24VAC, 170mA  
 RS485..... PELCO-D, PELCO-P, BOSCH, HONEYWELL, VICON, PANA, STW (SPD)  
 Operating Temperature ..... -4° F – 140° F  
 Storage Temperature..... -4° F – 140° F  
 Dimensions..... 5.1" (Dia.) x 3.1" (H)  
 Weight ..... 1 lb.

### Optional Accessories



**INTPM**  
Pendant Mount



**CVCJBD**  
Dome Camera Junction Box



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling Flush Mount



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply



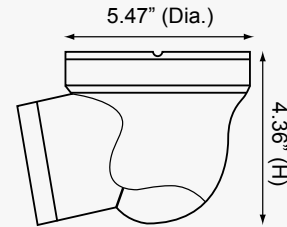
\*Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Rev. 6/5/13

## Intensifier3® Series Indoor/Outdoor Dome/Turret Camera

See Color In Almost Complete Darkness Without IR LEDs

<b>HTINTD8</b>	2.8 - 12mm auto iris varifocal lens, dark grey housing
<b>HTINTD8W</b>	2.8 - 12mm auto iris varifocal lens, white housing
<b>HTINTD9</b>	5 - 50mm auto iris varifocal lens, dark grey housing
<b>HTINTD9W</b>	5 - 50mm auto iris varifocal lens, white housing
<b>HTINTD10</b>	9 - 22mm auto iris varifocal lens, dark grey housing
<b>HTINTD10W</b>	9 - 22mm auto iris varifocal lens, white housing

**INT  
3**



### Features

- 1/3" Sony Super HAD II™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- 12VDC / 24VAC dual voltage operation
- Full OSD operation and test monitor output
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 3-axis wall or ceiling mount
- External controls for zoom & focus
- EZ mount system simplifies installation
- Relay outputs for motion detection
- Weather resistant operation
- IP66 compliant
- Anti-moisture glass and circuitry eliminates fog or condensation under any weather condition
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	650 TV lines
Minimum Illumination.....	0.00002 lux
Total Pixels .....	811 (H) x 508 (V)
Effective Pixels .....	768 (H) x 494 (V)
TV System.....	NTSC
Scanning Frequency.....	15.734kHz (H) / 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. - 1/120,000 sec.
OSD.....	Available
WDR.....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto
AGC.....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K – 11,000°K)
Intensifier3® .....	Auto / Off (selectable 2x – 512x)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Consumption .....	12VDC, 400mA / 24VAC, 170mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature.....	- 4° F – 140° F
Dimensions .....	4.36" (H) x 5.47" (Dia.)
Weight .....	3.08 lbs.

### Optional Accessories



**INTPM**  
Pendant  
Mount



**JB03TG**  
Large Round  
Junction Box



**INTWM**  
Wall Mount



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



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## Intensifier3® Series Weather Resistant Focus Free Dome/Turret Camera

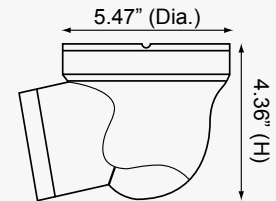
See Color In Almost Complete Darkness Without IR LEDs

**HTD8FFi** 2.8 - 10mm auto iris focus free motorized zoom lens, dark grey housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 3-axis wall or ceiling mount
- External RS-485 controls for zoom & focus
- S/N Ratio more than 52dB (weight on)
- Weather resistant operation
- EZ mount system simplifies installation
- Relay outputs for motion detection
- IP66 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

**INT  
3**



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	650 TV lines
Minimum Illumination.....	CDS Off: 0.15 lux / CDS On: 0.00002 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
TV System.....	NTSC
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 Interlace
Synchronization.....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. – 1/120,000 sec.
OSD.....	Available
WDR.....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto
AGC.....	High / Low / Off
White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)

Intensifier3® .....	Auto / Off (selectable x2 - x512)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 400mA / 24VAC, 170mA
RS485 (Option).....	PELCO-D, PELCO-P, BOSCH, HONEYWELL, VICON, PANA, STW (SPD)
Operating Temperature.....	-4° F – 140° F
Dimensions.....	4.36" (H) x 5.47" (Dia.)
Weight .....	3.08 lbs.

### Optional Accessories



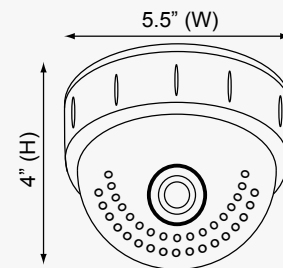
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## Intense-IR Series Tamper/Weather Resistant Color Day/Night Dome Cameras

- CVC5835DNV** 2.8 - 12mm auto iris varifocal lens, dark grey housing
- CVC5835DNVW** 2.8 - 12mm auto iris varifocal lens, white housing
- CVC5935DNV** 9 - 22mm auto iris varifocal lens, dark grey housing
- CVC5935DNVW** 9 - 22mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 3DNR (sense-up) - sharp image under ultra low light level
- Intense-IR Function - no saturation image, vivid image
- Defect Function - elimination of white spots
- HSBLC (High Light Suppression BLC)
- Privacy zone
- ICR - removable IR cut filter
- Convenient On-Screen Display (OSD) function controls
- 12VDC / 24VAC dual voltage operation
- IP66 compliant
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ CCD  
 Resolution.....600 TV lines  
 Minimum Illumination.....0.000006 lux (IR LEDs on)  
 Effective Pixels .....768 (H) x 494 (V)  
 Total Pixels .....811 (H) x 508 (V)  
 Number of IR LEDs .....33  
 IR Range .....Up To 65' (depending on scene reflection)  
 White Balance .....ATW / AWB / Manual / AWC - Set  
 AGC.....High / Middle / Low / Off  
 S/N Ratio .....52dB (AGC off, weight on)  
 Backlight Compensation.....BLC / HSBLC / Off  
 Electronic Shutter Speed.....Auto (1/50, 1/60 sec. - 1/100,000 sec.)  
 OSD.....Built-in  
 3DNR.....On / Off (0 - 100 levels adjustable)  
 DWDR .....Indoor / Outdoor / Off  
 Sharpness .....0-31' (level adjustable)  
 Privacy.....On / Off (8 zones)  
 Scanning System.....2:1 interlace  
 Synchronization .....Internal / Line - Lock

Motion Detection.....On / Off (4 zones)  
 Sense-Up.....Off / Auto (selectable limit x2 - x256)  
 Mirror .....Off / Mirror / V-Rev / Rotate  
 Freeze .....On / Off  
 Day/Night.....Color / BW / Auto / EXT  
 Digital Zoom .....On (32x) / Off  
 Defect Compensation .....Auto: 128 points / Manual: 4 points  
 Power Supply .....12VDC / 24VAC (dual voltage)  
 (power supply not included)  
 Power Consumption .....12VDC, 250mA (CDS off)  
 12VDC, 700mA (CDS on)  
 24VAC, 100mA (CDS off)  
 24VAC, 250mA (CDS on)  
 Operating Temperature/  
 Humidity.....-4° F – 140° F / RH 95% max.  
 Storage Temperature/  
 Humidity.....-4° F – 140° F / RH 95% max.  
 Dimensions.....5.5" (W) x 4" (H)  
 Weight .....1.2 lbs.

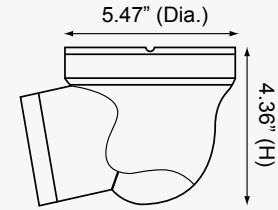
### Optional Accessories



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## Intense-IR Series Weather Resistant Color Day/Night Dome/Turret Cameras

- CVC5845DNV** 2.8-12mm auto iris varifocal lens, dark grey housing
- CVC5845DNVW** 2.8-12mm auto iris varifocal lens, white housing
- CVC5945DNV** 5-50mm auto iris varifocal lens, dark grey housing
- CVC5945DNVW** 5-50mm auto iris varifocal lens, white housing



### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- 0.000006 lux (IR LEDs on)
- Intense-IR Function - no saturation, vivid image
- 3DNR (sense-up) - sharp image under ultra low light level
- IR range up to 90'
- Full OSD operation
- 3-axis wall or ceiling mount
- Weather resistant operation
- IP66 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD	Synchronization .....	Internal / Line-Lock
Resolution.....	600 TV lines	Motion Detection.....	On / Off (4 zones)
Minimum Illumination.....	0.000006 lux (IR LEDs on)	Sense-Up.....	Off / Auto (selectable limit x2 - x256)
Effective Pixels .....	768 (H) x 494 (V)	Mirror .....	Off / Mirror / V-Flip / Rotate
Total Pixels .....	811 (H) x 508 (V)	Freeze .....	On / Off
Number of IR LEDs .....	42	Day/Night.....	Color / BW / Auto / EXT
IR Range .....	Up To 90 ft. (depending on scene reflection)	Digital Zoom .....	On (32x) / Off
IR LED Wavelength .....	850nm	Defect Compensation .....	Auto: 128 points / Manual: 4 points
White Balance .....	ATW / AWB / Manual / AWC - Set	Power Consumption .....	12VDC, 250mA (CDS off)
AGC.....	High / Middle / Low / Off		12VDC, 700mA (CDS on)
S/N (Y-signal) .....	52dB (AGC off, Weight on)		24VAC, 100mA (CDS off)
Backlight Compensation.....	BLC / HSBLC / Off		24VAC, 250mA (CDS on)
Electronic Shutter Speed.....	Auto: (1/50, 1/60 sec. - 1/100,000 sec.)	Power Supply .....	12VDC / 24VAC (dual voltage)
OSD.....	Built-in		(power supply not included)
3DNR.....	On / Off (0-100 level adjustable)	Operating Temperature/	
DWDR .....	Indoor / Outdoor / Off	Humidity.....	-4° F – 140° F / RH 95% max.
Sharpness .....	0-31' (level adjustable)	Dimensions.....	4.36" (H) x 5.47" (Dia.)
Privacy.....	On / Off (8 zones)	Weight .....	3.08 lbs.
Scanning System.....	2:1 interlace		

### Optional Accessories



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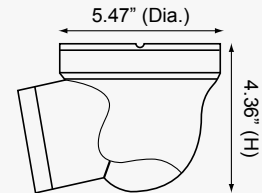
## Weather Resistant Dome/Turret Cameras with PIR Sensor & White LEDs

**CVC5300DPVF** 2.8 - 12mm auto iris varifocal lens, dark grey housing

**CVC5300DPVFW** 2.8 - 12mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- 0.15 lux, 0.00002 lux (IR LEDs on)
- Digital Deterrent®
- PIR activated white LEDs
- IR range up to 65'
- Digital image stabilization
- Full OSD operation
- 3-axis wall or ceiling mount
- Weather resistant operation
- IP66 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	600 TV lines
Minimum Illumination.....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	811 (H) x 508 (V) 768 (H) x 494 (V)
Number of LEDs .....	24 IR + 6 white LEDs
IR Range .....	Up To 65' (depending on scene reflection)
IR LED Wavelength .....	850nm
White Balance .....	ATW / Outdoor / Indoor / Manual AWC (1,700°K - 11,000°K)
AGC.....	High / Low / Off
Backlight Compensation .....	BLC / HLC / Off
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. - 1/120,000 sec.
Sharpness .....	On / Off (level adjustable)
Privacy Masking .....	On / Off (12 programmable zones)
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
TV System.....	NTSC, PAL

Day/Night.....	Color / BW / Auto
Sense-Up.....	Auto / Off (selectable x2 - x512)
Motion Detection.....	On / Off (8 programmable zones)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Flip / Mirror .....	On / Off
SSDR.....	On / Off (level adjustable)
SSNR III.....	On / Off (level adjustable)
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 250mA (CDS off, PIR off) 600mA (CDS on, PIR on) Heater On Adj: 200-600mA 24VAC, 100mA (CDS off, PIR off), 250mA (CDS on, PIR on) Heater On Adj: 120-250mA
Operating Temperature/	
Humidity.....	-4° F – 140° F / RH 95% max.
Dimensions.....	4.36" (H) x 5.47" (Dia.)
Weight .....	3.08 lbs.

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### Optional Accessories



## Intense Light Miniature Weather/Vandal/Tamper Resistant Color Dome Camera with Chameleon Cover™

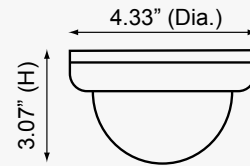
- CILT13D1G** 2.8 - 12mm auto iris varifocal lens, dark grey housing  
**CILT13D7G** 3.6mm fixed lens, dark grey housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 620 TV lines of resolution
- Amplify existing light with no distance limitations
- Minimum illumination 0.00001 lux (intense light @ 256x)
- Day/Night camera without using IR LEDs
- Chameleon Cover™ - snaps on and can be painted to match any décor!\*
- 3-axis wall or ceiling mount
- Full OSD operation
- 12VDC / 24VAC dual voltage operation
- Vandal resistant operation: can withstand hits from a 10 lb. sledgehammer!
- Tamper resistant operation: tamperproof screws for enhanced security
- Weather resistant operation: good for indoor or outdoor usage
- IP66 compliant
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	620 TV lines
Minimum Illumination.....	0.00001 lux (intense light @ 256x)
Total Pixels .....	811 (H) x 508 (V)
Effective Pixels .....	768 (H) x 494 (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
OSD.....	Available
Backlight Compensation.....	BLC / HLC / D-WDR
S/N (Y signal) .....	52dB (AGC Off, weight on)
White Balance .....	ATW / Manual / Set
Electronic Shutter Speed.....	Auto: (1/60 sec. - 1/100,000 sec.)
Sense-Up.....	Off / Auto (selectable limit x2 - x256)
AGC.....	High / Middle / Low / Off

3DNR.....	Auto / High / Middle / Low / Off
Motion Detection.....	On / Off (4 zone)
Privacy.....	On / Off (8 zone)
Mirror .....	Off / Mirror / V-Flip / Rotate
Sharpness .....	0 - 30 (level adjustable)
Day/Night.....	Color / BW / Auto / Ext
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 150mA / 24VAC, 80mA
Operating Temperature/ Humidity.....	-4° F – 122° F / RH 90% max.
Dimensions.....	3.07" (H) x 4.33" (Dia.)
Weight .....	1.54 lbs.

\*Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 12/9/13

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

## Miniature Weather/Vandal/Tamper Resistant Color Dome Camera with Chameleon Cover™

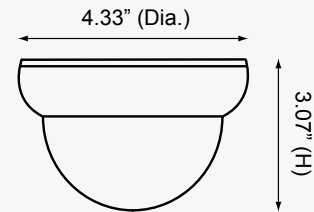
- CCLR13D1G** 2.8-12mm auto iris varifocal lens, dark grey housing
- CCLR13D7G** 3.6mm fixed board lens, dark grey housing
- CCLR13D8G** 6mm fixed board lens, dark grey housing

### Features

- 1/3" Sony Super HAD™ CCD
- 600 TV lines of resolution
- 3-way internal wall & ceiling mount
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- Vandal Resistant: able to withstand hits from a 10 lb. sledgehammer
- Tamper Resistant: tamperproof screws for enhanced security
- Weather Resistant: good for indoor or outdoor usage
- 12VDC / 24VAC dual voltage operation
- IP66 compliant
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	600 TV lines
Minimum Illumination.....	0.1 lux
Total Pixels .....	537 (H) x 505 (V)
Effective Pixels .....	510 (H) x 492 (V)
Electronic Shutter Speed.....	1/60 sec. – 1/100,000 sec.
S/N Ratio .....	More than 50dB
Video Output.....	1.0Vp-p / 75 ohms
	BNC & video test connector
Scanning System.....	2:1 interlace
Synchronization .....	Internal
Power Supply .....	12VDC / 24VAC dual voltage operation
	(power supply not included)
Power Consumption .....	12VDC, 130mA / 24VAC, 75mA
Operating Temperature.....	-20° F – 122° F
Dimensions .....	3.07" (H) x 4.33" (Dia.)
Weight .....	1.54 lbs.

\*Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 12/9/13

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

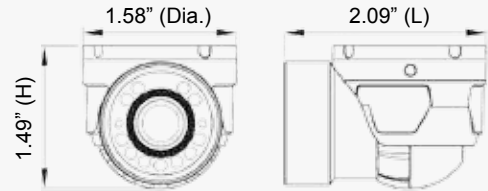


## 960H Weather/Vandal Resistant Miniature Dome/Turret Color Camera

- HT71HG** 2.9mm fixed lens, dark grey housing
- HT71HW** 2.9mm fixed lens, white housing
- HT72HG** 3.6mm fixed lens, dark grey housing
- HT72HW** 3.6mm fixed lens, white housing

### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- Compact size - only 1.58" in diameter!
- 10 IR LEDs
- Weather / Vandal resistant operation
- Cast aluminum construction
- Impressive picture quality
- IP66 compliant
- 12VDC required
- 5 year warranty



### Specifications

- Image Sensor ..... 1/3" 960H color CCD
- Resolution..... 700 TV lines
- Minimum Illumination..... 0.00 lux (IR LED on)
- Effective Pixels ..... 976 (H) x 494 (V)
- Total Pixels ..... 1020(H) x 508 (V)
- Electronic Shutter Speed..... Auto (1/60 sec. - 1/120,000 sec.)
- Number of IR LEDs ..... 10
- IR Range ..... 35 ft. (depending on scene reflection)
- IR LED Wavelength ..... 850nm
- Scanning System..... 2:1 interlace
- Synchronization..... Internal
- Frequency..... 15.734kHz (H) / 60Hz (V)
- Video Output..... 1.0Vp-p / 75 ohms
- S/N Ratio ..... More than 48dB
- AGC..... Auto
- White Balance ..... Auto
- Operating Temperature..... 14° F – 120° F
- Power Supply ..... 12VDC (power supply not included)
- Power Consumption ..... 100mA (IR off) / 200mA (IR on)
- Dimensions..... 1.58" (Dia.) x 1.49" (H) x 2.09" (L)
- Weight ..... 4 oz.



*Perfect for use in all vehicles or anywhere that a miniature, aesthetically pleasing, high resolution camera is desired.*

### Optional Accessory



**PSW5**  
12VDC  
Power Supply

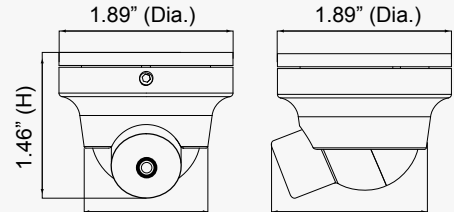
Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 2/26/14

## Weather/Vandal Resistant Miniature Color Cameras with IR LEDs

- CVC71HRB** 3.4mm fixed lens, black housing  
**CVC71HRW** 3.4mm fixed lens, white housing

### Features

- 1/3" Sony Super HAD™ CCD
- Built-in 3.4mm fixed lens
- 10 IR LEDs built-in
- Compact size - only 1.89" in diameter!
- Vandal resistant operation
- Cast aluminum construction
- Impressive picture quality
- IP66 compliant
- Perfect for use in vehicles
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	540 TV lines
Minimum Illumination.....	0.1 lux (IR LEDs off) 0.0002 lux (IR LEDs on)
Effective Pixels .....	768 (H) x 594 (V)
Number of IR LEDs .....	10
IR Range .....	30 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
White Balance .....	Auto
AGC.....	Auto
S/N Ratio .....	More than 50dB (AGC Off)
Video Output.....	1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	Auto: 1/60 sec. - 1/120,000 sec.
Scanning Frequency.....	15.734KHz (H) / 60Hz (V)
Scanning System.....	2:1 interlaced
Synchronization .....	Internal
Power Consumption .....	120mA max.
Power Supply .....	12VDC (power supply not included)
Operating Temperature.....	-14° F – 120° F
Dimensions.....	1.46" (H) x 1.89" (Dia.)
Weight .....	4 oz.



*Perfect for use in all vehicles or anywhere that a miniature, aesthetically pleasing, high resolution camera is desired.*

### Optional Accessories



**CM00TB**  
Ceiling tile mount



**CM00TW**  
Ceiling tile mount



**PSW5**  
12VDC  
Power Supply

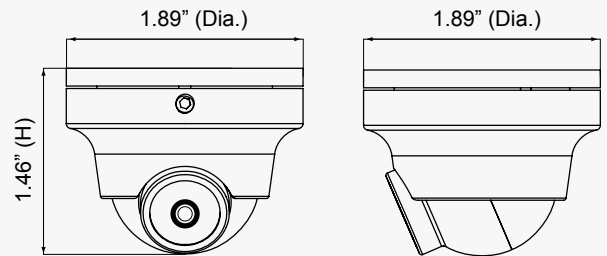
Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation.  
 Spec Rev. 2/26/14

## Intense Light Weather/Vandal Resistant Miniature Color Camera

- CVC61iLTB** 3mm fixed lens, black housing
- CVC61iLTW** 3mm fixed lens, white housing
- CVC62iLTB** 4.3mm fixed lens, black housing
- CVC62iLTW** 4.3mm fixed lens, white housing
- CILT00T6B** 2.5mm wide-angle fixed lens, black housing
- CILT00T6W** 2.5mm wide-angle fixed lens, white housing

### Features

- 1/3" Sony Super HAD™ CCD
- 600 TV lines of resolution
- Day/Night camera without using IR's
- Compact size - only 1.89" in diameter!
- Vandal resistant operation
- Cast aluminum construction
- Extreme low light functionality
- IP66 compliant
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	600 TV lines
Sensitivity .....	0.00001 lux
Effective Pixels .....	768 (H) x 494 (V)
Electronic Shutter Speed.....	Auto (1/60 sec. - 1/100,000 sec.)
Scanning System.....	2:1 interlace
Synchronization.....	Internal
Video Output.....	1.0Vp-p / 75 ohms
S/N Ratio .....	More than 52dB (AGC Off)
AGC.....	Auto
White Balance .....	Auto
Sense-Up.....	Auto (x32)
Power Supply .....	12VDC (power supply not included)
Power Consumption .....	120mA max.
Operating Temperature.....	-14° F – 120° F
Dimensions.....	1.46" (H) x 1.89" (Dia.)
Weight .....	4 oz.



*Perfect for use in all vehicles or anywhere that a miniature, aesthetically pleasing, high resolution camera is desired.*

Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation.  
Spec Rev. 2/26/14

### Optional Accessories



**PSW5**  
12VDC  
Power Supply



**CM00TB**  
Ceiling tile mount,  
black



**CM00TW**  
Ceiling tile mount,  
white

## Weather/Vandal Resistant Miniature Color Camera

- CVC61HRB**     3mm fixed lens, black housing
- CVC61HRW**     3mm fixed lens, white housing
- CVC62HRB**     4.3mm fixed lens, black housing
- CVC62HRW**     4.3mm fixed lens, white housing

### Features

- 1/3" Sony Super HAD™ CCD
- 540 TV lines of resolution
- Compact size - only 1.89" in diameter!
- Vandal resistant operation
- Cast aluminum construction
- Impressive picture quality
- IP66 compliant
- 12VDC required
- 5 year warranty



### Specifications

- Image Sensor ..... 1/3" Sony Super HAD™ CCD
- Resolution..... 540 TV lines
- Minimum Illumination..... 0.1 lux
- Effective Pixels ..... 768 (H) x 594 (V)
- Electronic Shutter Speed..... Auto (1/60 sec. - 1/120,000 sec.)
- Scanning System..... 2:1 interlace
- Synchronization..... Internal
- Frequency..... 15.734kHz (H) / 60Hz (V)
- Video Output..... 1.0Vp-p / 75 ohms
- S/N Ratio ..... More than 50dB (AGC Off)
- AGC..... Auto
- White Balance ..... Auto
- Operating Temperature..... -14° F – 120° F
- Power Supply ..... 12VDC (power supply not included)
- Power Consumption ..... 120mA max.
- Dimensions..... 1.46" (H) x 1.89" (Dia.)
- Weight ..... 4 oz.



*Perfect for use in all vehicles or anywhere that a miniature, aesthetically pleasing, high resolution camera is desired.*

### Optional Accessories



**CM00TB**  
Ceiling tile mount



**CM00TW**  
Ceiling tile mount



**PSW5**  
12VDC  
Power Supply

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## IR Indoor/Outdoor Turret Camera

- VLEDT1G** 2.8-12mm auto iris varifocal lens, dark grey housing
- VLEDT1W** 2.8-12mm auto iris varifocal lens, white housing
- VLEDT2G** 3.6mm fixed lens, dark grey housing
- VLEDT2W** 3.6mm fixed lens, white housing

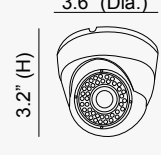
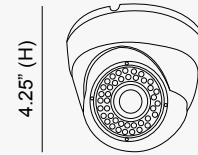
### Features

- 1/3" Panasonic CCD
- 0 lux with 36 IR LEDs built-in (VLEDT1G/VLEDT1W)
- 0 lux with 24 IR LEDs built-in (VLEDT2G/VLEDT2W)
- 98' IR range (depending on scene reflection) (VLEDT1G/VLEDT1W)
- 65' IR range (depending on scene reflection) (VLEDT2G/VLEDT2W)
- IP66 compliant
- 2 year warranty



4.5" (Dia.)

3.6" (Dia.)



VLEDT1G/VLEDT1W

VLEDT2G/VLEDT2W

### Specifications

Image Sensor .....	1/3" Panasonic CCD	White Balance .....	Auto
Resolution.....	600 TV lines	AGC.....	Auto Gamma 0.45 typ.
Minimum Illumination.....	0.1 lux, 0 lux with IR on	Scanning System.....	2:1 interlace
Effective Pixels .....	768 (H) x 494 (V)	Synchronization .....	Internal
Number of IR LEDs .....	VLEDT1G/VLEDT1W: 36	Video Signal Output.....	1.0Vp-p / 75 ohms
	VLEDT2G/VLEDT2W: 24	Operating Temperature.....	14° F – 122° F
IR Range .....	VLEDT1G/VLEDT1W:	Storage Temperature.....	-4° F – 140° F
	Up to 98' (depending on scene reflection)	Power Consumption .....	Max. 100mA (IR off)
	VLEDT2G/VLEDT2W:		VLEDT1G/VLEDT1W: max. 400mA (IR on)
	Up to 65' (depending on scene reflection)		VLEDT2G/VLEDT2W: max. 300mA (IR on)
IR LED Wavelength .....	850nm	Power Supply .....	12VDC (power supply not included)
IR Status.....	IR on: under 10 lux, by CDS auto control	Dimensions.....	VLEDT1G/VLEDT1W: 4.25" (H) x 4.5" (Dia.)
Electronic Shutter .....	Auto (1/60 sec. - 1/100,000 sec.)		VLEDT2G/VLEDT2W: 3.2" (H) x 3.6" (Dia.)
S/N Ratio .....	More than 48dB	Weight .....	VLEDT1G/VLEDT1W: 1.2 lbs.
Backlight Compensation.....	Auto		VLEDT2G/VLEDT2W: 10.4 oz.

### Optional Accessory



**PSW5**  
12VDC  
Power Supply

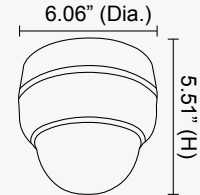
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## 960H 22x Surface Mount Outdoor PTZ Dome Camera

**CPTZ29D5W** 3.9 - 85.8mm lens, white housing

### Features

- Max. 352x zoom (22x optical / 16x digital)
- 700 TV lines of resolution
- WDR (wide dynamic range) function
- Day/Night (ICR) function
- 3DNR (digital noise reduction) function
- DIS (digital image stabilization) function
- 240 preset positions
- 4 Alarm Inputs / 1 Alarm Output (5VTTL)
- Variable speed from 0.1° /sec. – 380° /sec.
- 180° digital flip
- IP66 compliant
- 1 year warranty



### Camera Specifications

Image Sensor	1/4" Type Sony Super HAD™ CCD
Resolution	700 TV lines
Minimum Illumination	Color: 0.1 lux, BW and Slow Shutter: 0.00001 lux
S/N Ratio	More than 50dB
Video Output	1.0Vp-p / 75 Ohms
Effective Pixels	976 (H) x 494 (V)
Total Pixels	1020 (H) x 508 (V)
Scanning System	2:1 interlace
Synchronization	Internal / External
Frequency	15.734kHz (H), 59.94Hz (V)
Zoom	22x (optical)
Focal Length	3.9mm (wide) - 85.8mm (tele)
Max. Aperture Ratio	F1.6 (wide) - F3.7 (tele)
Angular Field Of View	3.9mm - 49.5° (H) / 85.8mm - 2.4° (H)
Focus	Auto / Manual / One Push / Constant Manual

### Mechanical Specifications

Pan Range	360° Endless
Pan Speed	Preset: 380° /sec, Manual: Max. 380° /sec (turbo)
Tilt Range	0° – 180° (digital flip)
Tilt Speed	Preset: 380° /sec, Manual: Max. 300° /sec (turbo)
Preset Positions	240
Auto Scan	16 Auto Scans & 1 Auto Pan
Tour	8
Pattern	8

### Operational Specifications

On Screen Display..... English, French, German, Italian, Spanish, Polish, Portuguese

### Operational Specifications (continued)

Camera Title	On / Off (6 character)
Day/Night	Auto / Color / BW / Global
Motion Detection	Yes
Wide Dynamic Range	On / Off
Backlight Compensation	BLC / HLC / Off
Digital Image Stabilization	On / Off
Privacy Masking	8
Digital Noise Reduction	3D / 2D
Digital Slow Shutter	On / Off (max. 512x)
White Balance	AWB / WAWB / Indoor / Outdoor / Manual
Electronic Shutter Speed	1/60 sec. – 1/100,000 sec.
Digital Zoom	16x
AGC	Min. / Low / Middle / High
Communication	RS-485
Protocol	Pelco-P, Pelco-D
Alarm	4 Inputs, 1 Output (5VTTL)
Operating Temperature/ Humidity	14° F – 122° F / 0% – 90% RH (non-condensing)
Input Voltage	12VDC / 24VAC
Power Supply	12VDC / 24VAC, dual voltage operation (power supply not included)
Power Consumption	12W
Dimensions	5.51" (H) x 6.06" (Dia.)
Weight	3.3 lbs.

### Optional Accessories

<b>WMA29DW</b> Wall Mount	<b>PEN29DW</b> Pendant Arm	<b>PMA29DW</b> Pole Mount Adaptor	<b>POL28DW</b> Pole Mount	<b>APT32DW</b> Adaptor Plate for COR32DW or POL28DW	<b>COR32DW</b> Corner Mount Adaptor	<b>APT29DW</b> Adaptor Plate for COR32DW or POL28DW when using WMA29DW	<b>DFM29DW</b> In-Ceiling Mount	<b>WAC29DW</b> Wall / Ceiling Mount	<b>PSW5</b> 12VDC Power Supply	<b>PSW4</b> 24VAC Power Supply

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## 960H 22x All-In-One, Outdoor PTZ Dome Camera

**CPTZ32D5W** 3.9 - 85.8mm lens, white housing



### Features

- Max. 352x zoom (22x optical / 16x digital)
- 700 TV lines of resolution
- WDR (wide dynamic range) function
- Day/Night (ICR) function
- 3DNR (digital noise reduction) function
- DIS (digital image stabilization) function
- Includes built-in heater and fan
- Features a sun-shielded housing
- 240 preset positions
- 4 alarm inputs / 1 alarm output (5VTTL)
- Variable speed from 0.1° /sec. – 380° /sec.
- 180° digital flip
- IP66 compliant
- 1 year warranty

### Camera Specifications

Image Sensor .....1/4" Type Sony Super HAD™ CCD II  
 Resolution.....700 TV lines  
 Minimum Illumination.....Color: 0.1 lux, BW & Slow Shutter: 0.00001 lux  
 S/N Ratio .....More than 50dB  
 Video Output.....1.0Vp-p /75 ohms  
 Effective Pixels .....976 (H) x 494 (V)  
 Total Pixels .....1020 (H) x 508 (V)  
 Scanning System.....2:1 interlace  
 Synchronization.....Internal / External  
 Frequency.....15.734kHz (H), 59.94Hz (V)  
 Zoom .....22x (optical)  
 Focal Length.....3.9mm (wide) - 85.8mm (tele)  
 Max. Aperture Ratio.....F1.6 (wide) - F3.7 (tele)  
 Angular Field Of View.....3.9mm - 49.5° (H) / 85.8mm - 2.4° (H)  
 Focus.....Auto / Manual / One Push / Constant Manual

### Mechanical Specifications

Pan Range.....360° endless  
 Pan Speed.....Preset: 380° /sec., Manual: Max. 380° /sec. (turbo)  
 Tilt Range .....0° – 180° (digital flip)  
 Tilt Speed .....Preset: 380° /sec., Manual: Max. 300° /sec. (turbo)  
 Preset Positions.....240  
 Auto Scan.....16 Auto Scans & 1 Auto Pan  
 Tour.....8  
 Pattern.....8

### Operational Specifications

On Screen Display.....English, French, German, Italian, Spanish, Polish, Portuguese

### Operational Specifications (continued)

Camera Title .....On / Off (6 character)  
 Day/Night.....Auto / Color / BW / Global  
 Motion Detection.....Yes  
 Wide Dynamic Range.....On / Off  
 Backlight Compensation.....BLC / HLC / Off  
 Digital Image Stabilization .....On / Off  
 Privacy Masking .....8  
 Digital Noise Reduction .....3D / 2D  
 Digital Slow Shutter .....On / Off (max. 512x)  
 White Balance .....AWB / WAWB / Indoor / Outdoor / Manual  
 Electronic Shutter Speed.....1/60 sec. – 1/100,000 sec.  
 Digital Zoom .....16x  
 AGC.....Min. / Low / Middle / High  
 Communication.....RS-485  
 Protocol .....Pelco-P, Pelco-D  
 Alarm .....4 Inputs, 1 Output (5VTTL)  
 Operating Temperature/  
 Humidity.....-22° F – 122° F /  
 0% – 90% RH (non-condensing)  
 Power Supply .....12VDC / 24VAC for dome,  
 24VAC for heater and fan  
 (power supply not included)  
 Power Consumption .....12W for dome, 45W for heater and fan  
 Dimensions.....8.07" (H) x 7.33" (Dia.)  
 Weight .....4.85 lbs.

### Optional Accessories



**PEN32DW**  
Pendant Arm



**CEI32DW**  
Ceiling Mount



**APT28DW**  
Adaptor Plate for  
COR32DW or POL28DW  
when using PEN32DW



**COR32DW**  
Corner Mount  
Adaptor



**POL28DW**  
Pole Mount



**PSW5**  
12VDC  
Power Supply



**PSW4**  
24VAC  
Power Supply

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## Indoor/Outdoor Day/Night Motorized Speed Dome Camera with 37x Optical Zoom Lens

**HTSD37X** 3.5 - 129.5mm, 37x optical zoom with 16x digital zoom lens, white housing

### Features

- 1/4" interline transfer CCD
- 600 TV lines of resolution
- 37x optical zoom with 16x digital zoom
- 360° endless rotation
- Various surveillance functions
- True Day/Night Operation: ICR filter
- Intelligent pan/tilt controlling: continually decreases pan and tilt speeds in proportion to zoom
- Weather resistant operation
- 1 year warranty



### Camera Specifications

Image Sensor .....	1/4" interline transfer CCD
Resolution .....	600 TV lines (color), 700 TV lines (BW)
Minimum Illumination .....	0.2 lux (color) / 0.07 lux (BW), 50 IRE / F1.6
Effective Pixels .....	768 (H) x 494 (V) - 380K
Total Pixels .....	811 (H) x 508 (V) - 410K
Zoom .....	37x optical zoom / 12x digital zoom
Focal Length .....	F = 1.6 - 3.9, F = 3.5 - 129.5mm
Angle of View .....	(H) 55.5° (wide) - 1.59° (tele) (V) 42.5° (wide) - 1.19° (tele)
Zoom Speed .....	2.8 sec. (wide to tele)
White Balance .....	Auto / Manual (red, blue gain adjustable 1700°K - 11000°K)
TV System .....	NTSC
S/N Ratio .....	52dB (AGC off)
Day/Night .....	Auto / Day / Night (ICR)
Focus .....	Auto / Manual / Semi-Auto
Iris .....	Auto / Manual
Shutter Speed .....	512x - 1/120,000 sec.
AGC .....	High / Middle / Low / Manual / Off
Backlight Compensation .....	WDR / BLC / HLC / Off
Flickerless .....	Selectable
SSNR .....	High / Middle / Low / Off
Privacy Zone .....	8 masks, spherical coordinate
Stabilization .....	On / Off

### Mechanical Specifications

Movement Range .....	Pan 360° (endless), tilt 90°
Speed .....	Preset 500° / sec.   Jog 0.05 - 360° / sec. (proportional to zoom)   Swing 1 - 180° / sec.

### Mechanical Specifications (continued)

Preset .....	209 presets (label, independent camera parameter setting)
Pattern .....	8 patterns [880 commands (approx. 4 minute) / pattern]
Swing .....	10 Swings
Group .....	8 groups (max. 40 actions with the combination of preset, pattern, and swing)
Scheduler .....	8 (program schedule for preset, swing, etc.)
RTC .....	Real-time clock, battery backup time (2 weeks)
Other Pan/Tilt Functions .....	Auto flip, auto parking, power up action, etc.
Communication .....	RS-485
Protocol .....	Pelco-D, Pelco-P, selectable
OSD .....	4 languages*, menu / time / PTZ information, etc.
Sensor Input .....	3 inputs, photo - coupler type, 5VDC - 12V
Alarm Outputs .....	1 output, relay output, max. load 24VDC 1.0A / 125VAC 0.5A
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 1.8A / 24VAC, 1.8A
Fan .....	Always on
Heater .....	Operational start from internal temperature of 50°F
Operating Temperature .....	-22° F - 122° F
Dome Size .....	7.9" (Dia.) x 8.67" (H)
Dimensions (dome included) ..	Ceiling Mount      Wall Mount 6.2" (Dia.) x 7.9" (H)    4.7" (W) x 5.5" (H) x 11.8" (L)
Weight .....	Approx. 8 lbs.      Approx. 7.5 lbs.

### Material

Dome & Mounts .....	Polycarbonate
Internal .....	Polycarbonate, ABS
External .....	Aluminum

\* 4 languages (English, Polish, French, Italian)



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### Optional Accessories



**CORMT37X**  
Corner Mount



**POLMT37X**  
Pole Mount



**CLGMT37X**  
Ceiling Mount



**KBDPTZ1**  
Keyboard Controller



**PSDC24**  
12VDC Power Supply



## Indoor/Outdoor PTZ Speed Dome Camera with 12x Optical Zoom Lens

**HTSD12X** 3.6 - 44.3mm 12x optical zoom with 12x digital zoom lens, white housing

### Features

- 1/4" Sony Super HAD™ CCD
- 144x zoom mini dome: 12x optical zoom with 12x digital zoom
- 360° endless rotation
- Various surveillance functions
- True Day/Night operation: ICR filter
- Intelligent Pan/Tilt controlling: continually decreases pan and tilt speeds in proportion to zoom
- 1 year warranty



### Specifications

Image Sensor .....	1/4" Sony Super HAD™ CCD
Resolution.....	More than 560 TV lines (color)
Minimum Illumination.....	Color mode: 0.008 lux / Night mode: 0.0008 lux
Effective Pixels .....	768 (H) x 494 (V) 380K
Total Pixels .....	811 (H) x 508 (V) 410K
Lens Type .....	Optical: 12x Optical Zoom (F=3.6 to 44.3mm) Digital: 12x (144x with optical)
White Balance .....	ATW1 / ATW2 / Indoor / Outdoor
S/N Ratio .....	More than 50dB
Day/Night (ICR) .....	Auto / Day / Night
Min. Shooting Distance.....	0.35m (wide) / 0.8m (tele)
OSD Menu.....	Multiple languages on screen
Digital Slow Shutter .....	2 / 4 / 8 / 16 / 24 / 32 / 64 / 128 / Off Night mode 0.02 lux (ICR On)
Video Output.....	VBS: 1.0Vp-p / 75 ohms
Backlight Compensation....	On / Off
Flickerless.....	On / Off
Pan Rotation Angle.....	360° endless
Pan Speed.....	Manual: 1°- 240°/sec.   Preset: Max. 240°/sec.
Tilt Rotation Angle .....	0° - 90°
Tilt Speed .....	Manual: 1°- 240°/sec.   Preset: Max. 240°/sec.
System Accuracy .....	0.02°
Presets .....	164 positions with a 16-character label available for each position with different speed steps
Group Tour .....	Max. 8 programmable group tours (each one consisting of up to 60 pre set steps with different steps)

Auto Scan .....	Programmable auto scan
Pattern .....	8 programmable patterns (total 400 seconds)
Privacy Zone.....	4 privacy zone
Sector .....	8 selectable sectors with 16 characters
Password Protection.....	Yes
Alarm Input .....	4 alarms, Off / NC / NO (with various programmable states)
Alarm Actions .....	Activate preset, group scanning or patterns
Auto Flip .....	On / Off
Communication.....	RS-485
Protocol .....	Pelco D/P
Power Consumption .....	12VDC, 800mA / 24VAC, 400mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Construction .....	Die-cast, anti-vandal dome cover
Certifications.....	CE, FCC
Motor Type .....	Stepper motor
Micro Steps.....	1/4 Step
Storage Temperature .....	-40° F – 140° F
Operating Temperature .....	-14° F – 120° F
Dimensions.....	6.6" (H) x 6.6" (Dia.)
Weight .....	3.3 lbs.

### Optional Accessories



**KBDPTZ1**  
Keyboard  
Controller



**CPSD10X**  
Corner  
Pole Mount



**WMSD10X**  
Wall Mount



**PSW5**  
12VDC  
Power Supply



**PSW4**  
24VAC  
Power Supply

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## Intensifier H® Series Indoor Dome Camera

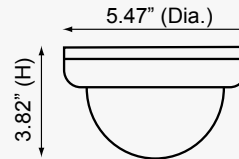
See Color In Almost Complete Darkness Without IR LEDs

**CVC6246H** 2.8-12mm auto iris varifocal lens, black housing

**CVC6246HW** 2.8-12mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD™ CCD
- 700 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensify @ 512x)
- Now with presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 12VDC / 24VAC dual voltage operation
- Full OSD operation
- 3-axis wall or ceiling mount
- Relay outputs for motion detection
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution .....	700 TV lines
Minimum Illumination .....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System .....	NTSC
Scanning Frequency .....	15.734kHz (H) & 59.94Hz (V)
Scanning System .....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed .....	1/60 sec. - 1/120,000 sec.
OSD .....	Available
DWDR .....	On / Off (level adjustable)
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Color / BW / Auto / Ext
AGC .....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)
Intensify .....	Auto / Off (selectable x2 - x512)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR .....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 250mA / 24VAC, 100mA
Operating Temperature .....	14° F – 122° F
Storage Temperature .....	-4° F – 140° F
Dimensions .....	3.82" (H) x 5.47" (Dia.)
Weight .....	1.54 lbs.

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Spec Rev. 1/17/14

### Optional Accessories



**DFM**  
Tile Ceiling  
Flush Mount



**CVCWMTIND**  
Indoor  
Wall Mount



**PSW4**  
24VAC  
Power Supply



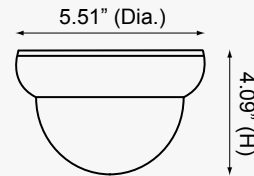
**PSW5**  
12VDC  
Power Supply

## 960H Wide Dynamic Range Indoor Dome Camera

- WDRD21H** 2.8-12mm auto iris varifocal lens, dark grey housing
- WDRD21HW** 2.8-12mm auto iris varifocal lens, white housing

### Features

- True WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" Sony Super HAD™ CCD
- 700 TV lines of resolution
- 3DNR (digital noise reduction)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor	1/3" Sony Super HAD™ CCD (dual scan)
Resolution	700 TV lines
Minimum Illumination	0.000006 lux
Effective Pixels	976 (H) x 494 (V)
Total Pixels	1028 (H) x 508 (V)
TV System	NTSC
Scanning System	2:1 interlace
S/N Ratio	48dB
Video Output	1.0Vp-p / 75 ohms
Backlight Compensation	BLC / HLC / Off
Day/Night	Auto / Color / BW / Ext
AGC	High / Middle / Low
Sense-Up	Auto / Off (x2 – x512)
White Balance	ATW / AWB / AWC – Set / Manual (1,800°K – 10,500°K)

Mirror	H-Rev / V-Rev / Rotate / PIP
Digital Zoom	x16
Defect Compensation	Auto (64 points)
3DNR	Off / Low / Mid. Low / Mid. High / High
DIS	On / Off
Power Supply	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption	12VDC, 400mA / 24VAC, 170mA
Storage Temperature/ Humidity	-4° F – 140° F / 20% – 95% RH
Operating Temperature/ Humidity	-4° F – 140° F / 20% – 80% RH
Dimensions	5.51" (Dia.) x 4.09" (H)
Weight	1.54 lbs.



WDR



no WDR

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### Optional Accessories



**DFM**  
Tile Ceiling  
Flush Mount



**CVCWMTIND**  
Indoor  
Wall Mount



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

## 960H Wide Dynamic Range Indoor IR Dome Camera

**WDRD20H** 2.8-12mm auto iris varifocal lens, black housing

### Features

- True WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" Sony Super HAD™ CCD
- 700 TV lines of resolution
- 28 IR LEDs
- Chameleon Cover™: snaps on and can be painted to match any décor!\*
- Highest resolution: vivid sharp picture in complete darkness
- 3DNR (digital noise reduction)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™

5.12" (Dia.)



3.94" (H)

### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD (dual scan)
Resolution .....	700 TV lines
Minimum Illumination .....	0.000006 lux @ F1.2 / IR LED On
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1028 (H) x 508 (V)
TV System .....	NTSC
Scanning System .....	2:1 interlace
Number of IR LEDs .....	28
IR Range .....	164 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
S/N Ratio .....	52dB
Video Output .....	1.0Vp-p / 75 ohms
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Auto / Color / BW / Ext
AGC .....	High / Middle / Low
Sense-Up .....	Auto / Off (x2 – x512)
White Balance .....	ATW / AWB / AWC – Set / Manual (1,800°K – 10,500°K)

Mirror .....	H-Rev / V-Rev / Rotate / PIP
Digital Zoom .....	x16
Defect Compensation .....	Auto (64 points)
3DNR .....	Off / Low / Mid. Low / Mid. High / High
DIS .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 500mA / 24VAC, 250mA
Storage Temperature/ Humidity .....	-4° F – 140° F / 20% – 95% RH
Operating Temperature/ Humidity .....	-4° F – 140° F / 20% – 80% RH
Dimensions .....	5.12" (Dia.) x 3.94" (H)
Weight .....	1.32 lbs.



WDR



no WDR

### Optional Accessories



**INTPM**  
Pendant Mount



**INTWM**  
Wall Mount



**DFM**  
Tile Ceiling Flush Mount



**INTCM**  
Corner/Pole Adaptor  
(use with INTWM)



**CVCJBD**  
Dome Camera Junction Box



**PSW4**  
24VAC Power Supply



**PSW5**  
12VDC Power Supply



\* Chameleon Cover™ - for best results when used outdoors, waterproof paint is recommended. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/20/14

## 960H 700 TVL Indoor IR Dome Camera with Chameleon Cover™

**HT648H** 4mm fixed lens, black housing

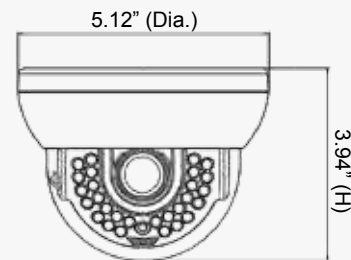
**HT649H** 2.8-12mm auto iris varifocal lens, black housing

### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- 28 IR LEDs
- Chameleon Cover™: snaps on and can be painted to match any décor!
- Highest resolution: vivid sharp picture in complete darkness
- No noise, ghosting effect with DNR
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- De-fog
- 3 axis lens mount
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



Shown with included paintable, snap-on Chameleon Cover™

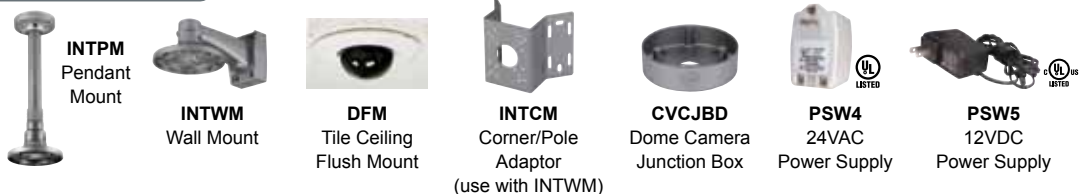


### Specifications

Image Sensor	1/3" 960H color CCD
Resolution	700 TV lines
Minimum Illumination	0.01 lux @ F1.2 / IR LED On
Effective Pixels	976 (H) x 494 (V)
Total Pixels	1020 (H) x 508 (V)
TV System	NTSC
Scanning System	2:1 interlace
Number of IR LEDs	28
IR Range	164 ft. (depending on scene reflection)
IR LED Wavelength	850nm
S/N Ratio	52dB
Video Output	1.0Vp-p / 75 ohms
DWDR	Indoor / Off
Backlight Compensation	BLC / HLC / Off
Day/Night	Auto / Day / Night / Ext
AGC	High / Middle / Low
Sense-Up	Auto / Off (x2 - x256)
White Balance	ATW / AWB / AWC - Set / Manual (1,800°K - 11,000°K)

Privacy Masking	8 zones
Mirror	H-Rev / V-Rev / Rotate / PIP
Digital Zoom	x32
Smart Digital Zoom	On / Off
De-Fog	Manual / Auto / Off
Defect Compensation	Auto (512 points)
3DNR	1 - 200 level selectable
DIS	On / Off
Power Supply	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption	12VDC, 500mA / 24VAC, 250mA
Storage Temperature/	
Humidity	-4° F - 140° F / 20% - 95% RH
Operating Temperature/	
Humidity	-4° F - 140° F / 20% - 95% RH
Dimensions	3.94" (H) x 5.12" (Dia.)
Weight	1.32 lbs.

### Optional Accessories



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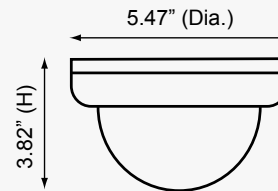
## Intensifier3® Series Indoor Dome Cameras

See Color In Almost Complete Darkness Without IR LEDs

**CVC6246iHR** 2.8 - 12mm auto iris varifocal lens, black housing

**CVC6246iHRW** 2.8 - 12mm auto iris varifocal lens, white housing

**INT  
3**



### Features

- 1/3" Sony Super HAD II™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- Full OSD operation
- Wall or ceiling mount
- S/N Ratio more than 52dB (weight on)
- EZ mount system simplifies installation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution .....	650 TV lines
Minimum Illumination .....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
TV System.....	NTSC
Scanning Frequency .....	15.734kHz (H) & 59.94Hz (V)
Scanning System .....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed .....	1/60 sec. - 1/120,000 sec.
OSD .....	Available
WDR .....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night .....	Color / BW / Auto
AGC.....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)
Intensifier3® .....	Auto / Off (selectable x2 - x512)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 250mA / 24VAC, 100mA
Operating Temperature.....	14° F – 122° F
Storage Temperature.....	-4° F – 140° F
Dimensions.....	3.82" (H) x 5.47" (Dia.)
Weight .....	1.54 lbs.

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Spec Rev. 2/25/13



### Optional Accessories



**DFM**  
Tile Ceiling  
Flush Mount



**CVCWMTIND**  
Indoor  
Wall Mount



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

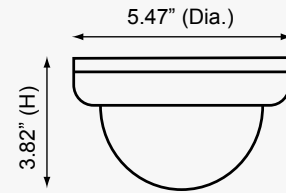
## High Resolution Color Indoor Dome Camera

**CVC6146SCS** 2.8 - 12mm auto iris varifocal lens, black housing

**CVC6146SCSW** 2.8 - 12mm auto iris varifocal lens, white housing

### Features

- BLC - Adjustable sensing area of 100 points on the screen: Adjustment of BLC ratio
- White Balance - ATW, AWB, Fixed (pre-sets) or complete manual control of reds & blues
- Camera Titles - On / Off: Easy user set-up
- Day/Night - Color / BW / Auto
- Mirror Image - To reverse field of view
- Full OSD control of all major camera functions
- Privacy Screens - Easy user set-up and dynamic control for exact settings
- Adjustability of several other camera functions including contrast, sharpness, CB-gain, etc.
- 3-way axis camera
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™  
 Resolution..... 630 TV lines of resolution (color)  
 Minimum Illumination..... 0.00002 lux (sense-up x512)  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Total Pixels ..... 811 (H) x 507 (V)  
 Electronic Shutter Speed..... Auto: 1/60 sec. - 1/110,000 sec.  
 Color ..... Yes  
 S/N Ratio ..... More than 52dB  
 Signal Output..... 1.0Vp-p / 75 ohms  
 Scanning System..... 2:1 interlaced  
 Synchronization ..... Internal  
 Backlight Compensation..... BLC / HSBLCL / Off  
 AGC..... High / Middle / Low / Off  
 Mirror ..... On / Off / V-Flip / Rotate  
 DWDR ..... Off / Indoor / Outdoor  
 Sense-Up..... x2 – x512  
 Sharpness ..... 0 – 31 (level adjustable)  
 Freeze ..... On / Off

3DNR..... On / Off (1-100 level adjustable)  
 TV System ..... NTSC  
 Motion Detection..... On / Off  
 Privacy Function ..... On / Off  
 White Balance ..... ATW / AWB / Manual / AWC — Set  
 OSD..... Available  
 Day/Night..... Color / BW / Auto  
 Operating Temperature/  
 Humidity ..... 14° F – 122° F / RH 30% – 80%  
 Storage Temperature/  
 Humidity ..... -4° F – 122° F / RH 30% – 80%  
 Power Consumption ..... 120mA  
 Power Supply ..... 12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Unit Construction Materials ..... ABS plastic  
 Dimensions..... 3.82" (H) x 5.47" (Dia.)  
 Weight ..... 1.54 lbs.

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 Spec Rev. 1/28/14



### Optional Accessories



**DFM**  
Tile Ceiling  
Flush Mount



**CVCWMTIND**  
Indoor  
Wall Mount



**PSW4**  
24VAC  
Power Supply



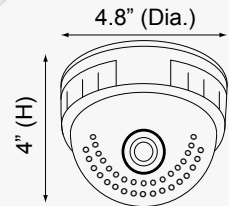
**PSW5**  
12VDC  
Power Supply

## Intense-IR Series Color Day/Night Indoor Dome Cameras

**CVC5825DNV** 2.8 - 12mm auto iris varifocal lens, black housing  
**CVC5825DNVW** 2.8 - 12mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 3DNR (sense-up) - sharp image under ultra low light level
- Intense-IR function - no saturation image, vivid image
- Defect function - elimination of white spots
- HSBLC (High Light Suppression BLC)
- Privacy zone
- ICR - removable IR cut filter
- Convenient On-Screen Display (OSD) function controls
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ CCD  
 Resolution..... 600 TV lines  
 Minimum Illumination..... 0.000006 lux (IR LEDs on)  
 Total Pixels ..... 811 (H) x 508 (V)  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Number of LEDs..... 33  
 IR Range ..... Up To 65 ft. (depending on scene reflection)  
 IR LED Wavelength ..... 850nm  
 White Balance ..... ATW / AWB / Manual / AWC – Set  
 AGC..... High / Middle / Low / Off  
 S/N Ratio ..... 52dB (AGC off, weight on)  
 Backlight Compensation..... BLC / HSBLC / Off  
 Electronic Shutter Speed..... Auto (1/50, 1/60 sec. – 1/100,000 sec.)  
 OSD..... Built-In  
 3DNR..... On / Off (0-100 levels adjustable)  
 DWDR ..... Indoor / Outdoor / Off  
 Sharpness ..... 0-31' (level adjustable)  
 Privacy..... On / Off (8 zones)  
 Scanning System..... 2:1 interlace  
 Synchronization ..... Internal / Line-Lock

Motion Detection..... On / Off (4 zones)  
 Sense-Up..... Off / Auto (selectable limit x2 - x256)  
 Mirror ..... Off / Mirror / V-Rev / Rotate  
 Freeze ..... On / Off  
 Day/Night..... Color / BW / Auto / EXT  
 Digital Zoom: ..... On (32x) / Off  
 Defect Compensation ..... Auto: 128 points / Manual: 4 points  
 Power Supply ..... 12VDC / 24VAC dual voltage operation  
 ..... (power supply not included)  
 Power Consumption ..... 12VDC, 250mA (CDS off)  
 ..... 12VDC, 700mA (CDS on)  
 ..... 24VAC, 100mA (CDS off)  
 ..... 24VAC, 250mA (CDS on)  
 Operating Temperature/  
 Humidity..... 14° F – 122° F / RH 95% max.  
 Storage Temperature/  
 Humidity..... -4° F – 140° F / RH 95% max.  
 Dimensions..... 4" (H) x 4.8" (Dia.)  
 Weight ..... 1.2 lbs.

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 Spec Rev. 1/24/14



### Optional Accessories



**CVCWM**  
Corner Mount



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



## High Resolution Dual Voltage Color Indoor Dome Cameras with Built-In IR LEDs Fixed or Varifocal Lens

- HLED31D7B** 3.6mm lens, black housing
- HLED31D7W** 3.6mm lens, white housing
- HLED31D1B** 2.8-12mm auto iris varifocal lens, black housing
- HLED31D1W** 2.8-12mm auto iris varifocal lens, white housing

### Features

- Day/Night camera with special shielding to eliminate IR reflections
- 75' IR Range
- 650 TV lines of resolution
- Used for indoor applications
- Smart IR reduces saturation of objects within close proximity to IR LEDs
- 3-axis design, both wall and ceiling mountable
- Digital wide dynamic range
- OSD for camera setting adjustments
- 5 year warranty



### Specifications

Image Sensor .....	1/3" color CCD	Motion.....	On / Off (4 zone)
Resolution.....	650 TV lines	Mirror .....	On / Off
Minimum Illumination.....	0 lux with IR on, 0.01 lux with IR off	DNR.....	High / Middle / Low / Auto / Off
Effective Pixels .....	768 (H) x 494 (V)	Sense-Up.....	Auto / Select (2x-1024x) / Fix / Off
Iris.....	Electronic iris DC auto iris (varifocal version only)	Backlight Compensation.....	BLC / HLC / DWDR / Off
Electronic Shutter Speed.....	1/60 sec. – 1/100,000 sec.	AGC.....	High / Middle / Low / Off
Number of IR LEDs .....	24	TV System .....	NTSC
IR Range .....	75 ft. (depending on scene reflection)	Power Consumption .....	600mA
IR LED Wavelength .....	850nm	Power Supply .....	12VDC/24VAC dual voltage operation (power supply not included)
S/N Ratio .....	More than 52dB (AGC off)	Housing .....	High impact ABS
Gamma.....	0.45 typ.	Operating Temperature.....	14° F – 122° F
Scanning System.....	2:1 interlace	Storage Temperature.....	-4° F – 140° F
IR Cut Filter .....	Auto	Dimensions.....	3.5" (H) x 5.2" (Dia.)
OSD.....	Yes	Weight .....	14.5 oz.
Synchronization.....	Internal	Included in Package .....	DC leads
Privacy.....	On / Off (8 zone)		

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### Optional Accessories

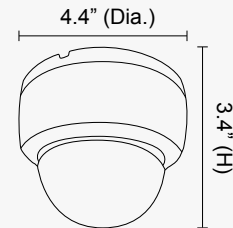


## High Resolution Color Indoor Dome Cameras with Built-In IR LEDs Fixed or Varifocal Lens

- CLED30D7B** 3.6mm fixed lens, black housing
- CLED30D7W** 3.6mm fixed lens, white housing
- CLED30D1B** 2.8 - 12mm auto iris varifocal lens, black housing
- CLED30D1W** 2.8 - 12mm auto iris varifocal lens, white housing

### Features

- Day/Night camera with special shielding to eliminate IR reflections
- 600 TV lines of resolution
- 65' IR Range
- Used for indoor applications
- IR cut filter
- 3-axis design, both wall and ceiling mountable
- 5 year warranty



### Specifications

Image Sensor .....	1/3" color CCD	Scanning System.....	2:1 interlace
Resolution.....	600 TV lines	Synchronization.....	Internal
Minimum Illumination.....	0 lux with IR on, 0.01 lux with IR off	AGC.....	Auto
Effective Pixels .....	768 (H) x 494 (V)	TV System.....	NTSC
Number of IR LEDs .....	CLED30D7: 25 LEDs CLED30D1: 22 LEDs	Power Consumption .....	250mA
IR Range .....	65' (depending on scene reflection)	Power Supply .....	12VDC regulated (power supply not included)
IR LED Wavelength .....	850nm	Housing .....	High impact ABS
Iris.....	Electronic iris DC auto iris (varifocal version only)	Operating Temperature .....	14° F – 122° F
Electronic Shutter Speed.....	1/60 sec. – 1/100,000 sec.	Storage Temperature .....	-4° F – 140° F
S/N Ratio .....	More than 48dB	Dimensions.....	3.4" (H) x 4.4" (Dia.)
Gamma.....	0.45 typ.	Weight .....	8 oz.
		Included in Package .....	DC leads

### Optional Accessory



**PSW5**  
12VDC  
Power Supply

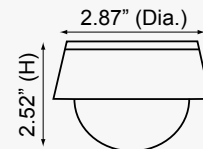
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## 960H Diamond Dome™ Series Miniature Indoor Camera

**CDD11HW** 3.6mm fixed lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 700 TV lines of resolution
- Unique and stylish housing for attractive indoor installation
- Small form factor for an unobtrusive look
- 3-axis wall or ceiling mount
- Full OSD operation
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ CCD  
 Resolution..... 700 TV lines  
 Minimum Illumination..... Color: 0.1 lux, BW: 0.01 lux  
 Effective Pixels ..... 976 (H) x 494 (V)  
 Total Pixels ..... 1028 (H) x 508 (V)  
 Scanning System..... 2:1 interlace  
 Synchronization..... Internal  
 OSD..... Available  
 Backlight Compensation..... BLC / HLC  
 S/N Ratio ..... More than 52dB  
 White Balance ..... ATW1 / ATW2 / ATW / Manual  
 Electronic Shutter Speed..... Auto (1/60 sec. - 1/100,000 sec.)  
 2D-DNR ..... On / Off

WDR..... DWDR  
 DPC..... Auto / Manual / Off  
 Motion Detection..... On / Off (4 zone)  
 Privacy..... On / Off (8 zone)  
 Mirror ..... On / Off  
 Parking Line..... Available  
 Sharpness ..... 0 - 31 (level adjustable)  
 Day/Night..... Auto / Color / BW / Ext  
 Power Supply ..... 12VDC (power supply not included)  
 Power Consumption ..... 200mA  
 Operating Temperature..... 14° F – 122° F  
 Dimensions..... 2.52" (H) x 2.87" (D)  
 Weight ..... 4 oz.

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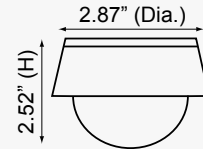
### Optional Accessory



**PSW5**  
12VDC  
Power Supply

## Diamond Dome™ Series Miniature Indoor Camera

**CCLR25D7W** 3.6mm fixed lens, white housing



### Features

- 600 TV lines of resolution
- Unique and stylish housing for attractive indoor installation
- Small form factor for an unobtrusive look
- 3-axis wall or ceiling mount
- Full OSD operation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony CCD	2DNR.....	On / Off
Resolution.....	600 TV lines	Motion Detection.....	On / Off (4 zone)
Minimum Illumination.....	0.1 lux	Privacy.....	On / Off (8 zone)
Total Pixels .....	811 (H) x 508 (V)	Mirror .....	On / Off
Effective Pixels .....	768 (H) x 494 (V)	Parking Line.....	Available
Scanning System.....	2:1 interlace	Sharpness .....	0 - 31 (level adjustable)
Synchronization.....	Internal	Day/Night.....	Auto / Color / BW / Ext
OSD.....	Available	Power Supply .....	12VDC (power supply not included)
Backlight Compensation.....	BLC / HLC	Power Consumption .....	200mA
S/N (Y signal) .....	52dB (AGC Off)	Operating Temperature.....	14° F – 122° F
White Balance .....	ATW1 / ATW2 / ATW / Manual	Dimensions.....	2.52" (H) x 2.87" (D)
Electronic Shutter Speed.....	Auto (1/60 sec. - 1/100,000 sec.)	Weight .....	4 oz.

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### Optional Accessory



**PSW5**  
12VDC  
Power Supply

## 960H Color Indoor Dome Camera

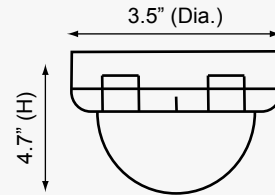
**VL644H** 3.6mm fixed lens, black housing

**VL644HW** 3.6mm fixed lens, white housing

### Features

- 750 TV lines of resolution
- Easy installation & adjustment
- Compact & lightweight 3 axis design
- Manual 360° rotation & pan/tilt mechanism
- Low power consumption - max. 90mA
- 12VDC power supply required (power supply not included)
- 5 year warranty

**960**  

### Specifications

Image Sensor .....	1/3" High Resolution 960H CCD Sensor
Resolution.....	750 TV lines of resolution
Minimum Illumination.....	0.001 lux @ F=1.2
Effective Pixels .....	1028 (H) x 508 (V)
Electronic Shutter .....	Auto (1/60 sec. - 1/100,000 sec.)
S/N Ratio .....	52dB
Backlight Compensation.....	Auto
Synchronization.....	Internal
Gamma.....	0.45 typ.
Video Signal Output.....	1.0Vp-p / 75 ohms
Operating Temperature/	
Humidity.....	14° F – 122° F / less than 80% RH
Storage Temperature.....	-4° F – 140° F
Power Consumption .....	90mA
Power Supply .....	12VDC (power supply not included)
Dimensions.....	4.7" (H) x 3.5" (Dia.)
Weight .....	10.5 oz.

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 Spec Rev. 12/16/13

### Optional Accessory



**PSW5**  
 12VDC  
 Power Supply

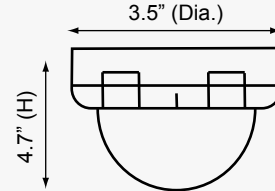
## Color Indoor Dome Camera for Wall or Ceiling Mounting

**VL644DC** 3.6mm fixed lens, black housing

**VL644DCW** 3.6mm fixed lens, white housing

### Features

- 600 TV lines of resolution
- Compact & lightweight 3 axis design
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" IT chip  
 Resolution..... 600 TV lines  
 Minimum Illumination..... 0.1 lux @ F=1.2  
 Effective Pixels ..... 752 (H) x 582 (V)  
 Electronic Shutter ..... Auto (1/60 sec. - 1/100,000 sec.)  
 S/N Ratio ..... 50dB  
 Backlight Compensation.... Auto  
 Synchronization..... 2:1 Internal  
 Gamma..... 0.45 typ.  
 Video Signal Output..... 1.0Vp-p / 75 ohms  
 Operating Temperature/  
 Humidity..... 14° F – 122° F / less than 80% RH  
 Storage Temperature..... -4° F – 140° F  
 Power Consumption ..... 90mA  
 Power Supply ..... 12VDC (power supply not included)  
 Dimensions..... 4.7" (H) x 3.5" (D)  
 Weight ..... 10.5 oz.

### Optional Accessory



**PSW5**  
 12VDC  
 Power Supply



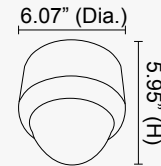
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## 960H 22x Surface Mount Indoor PTZ Dome Camera

**CPTZ28D5W** 3.9 - 85.8mm lens, white housing

### Features

- 22x optical zoom
- 700 TV lines of resolution
- Day/Night (ICR) function
- DNR (digital noise reduction) function
- 240 preset positions
- 2 Alarm Inputs / 1 Alarm Output (5VTTL)
- Variable Speed from 0.1° /sec. – 380° /sec.
- 90° auto flip
- Surface/flush mount compatibility
- 1 year warranty



### Camera Specifications

Image Sensor	1/4" Type ExView HAD™ CCD II
Resolution	700 TV lines
Minimum Illumination	Color: 0.5 lux
Effective Pixels	976 (H) x 494 (V)
Total Pixels	1020 (H) x 508 (V)
Zoom	22x (optical)
Focal Length	3.9mm (wide) - 85.8mm (tele)
Max. Aperture Ratio	F1.6 (wide) - F3.7 (tele)
Angular Field of View	3.9mm - 49.5° (H) / 85.8mm - 2.4° (H)
Scanning System	2:1 interlace
Synchronization	Internal
Frequency	15.734kHz (H), 59.94Hz (V)
Video Output	1.0Vp-p / 75 ohms
S/N Ratio	More than 50dB
Focus	Auto / Manual / One Push / Constant Manual

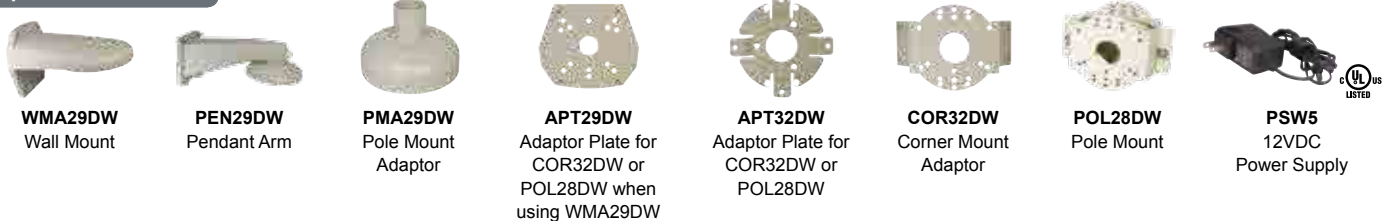
### Mechanical Specifications

Pan Range	360° endless
Pan Speed	Preset: 380° /sec, Manual: Max. 380° /sec (turbo)
Tilt Range	0° – 90° (auto flip)
Tilt Speed	Preset: 380° /sec, Manual: Max. 300° /sec (turbo)
Preset Positions	240
Auto Scan	16 Auto Scans & 1 Auto Pan
Tour	8
Pattern	8

### Operational Specifications

On Screen Display	English, French, German, Italian, Spanish, Polish, Portuguese
Camera Title	On / Off (6 character)
Day/Night	Auto / Color / BW / Global
Motion Detection	Yes
Adaptive Tone Reproduction	On / Off
Backlight Compensation	BLC / HLC / Off
Privacy Masking	8
Digital Noise Reduction	2D
White Balance	AWB / WAWB / Indoor / Outdoor / Manual
Electronic Shutter Speed	1/60 sec. – 1/100,000 sec.
AGC	Min. / Low / Middle / High
Communication	RS-485/422
Protocol	Pelco-P, Pelco-D
Alarm	2 Inputs, 1 Output (5VTTL)
Operating Temperature/ Humidity	32° F – 104° F / 0% – 90% RH (non-condensing)
Input Voltage	12VDC
Power Supply	12VDC (power supply not included)
Power Consumption	8W (650mA)
Dimensions	5.95" (H) x 6.07" (Dia.)
Weight	2.43 lbs.

### Optional Accessories



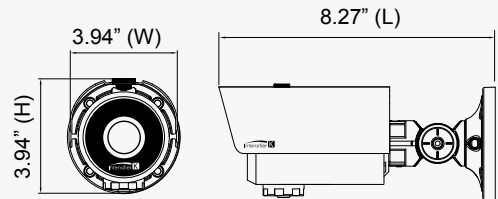
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## Intensifier K™ 1000 TVL Indoor/Outdoor Vandal Resistant Bullet with True WDR

**HTINT70K** 2.8-12mm auto-iris varifocal lens, dark grey housing

### Features

- 1/3" 1.3 MP Sony Sensor
- 1000 TV lines the highest resolution in analog
- True WDR functionality
- Superior low-light performance
- Amplify existing light with no distance limitation
- Heater circuitry eliminates fog or condensation under any weather condition
- Presets include Indoor, Outdoor, Low Light, Hallway, Lobby (WDR), Elevator
- 12VDC & 24VAC dual voltage operation
- Relay output for motion detection
- 3-axis wall and ceiling mount
- Vandal / tamper resistant operation
- IP67 compliant
- 5 year warranty



### Specifications

Image Sensor .....	1/3" 1.3MP Sony Sensor	AGC.....	0 - 20 (level adjustable)
Resolution.....	1000 TV lines	Sense-Up.....	(x2 – x32)
Minimum Illumination.....	0.0001 lux	Motion Tracking .....	On / Off
Effective Pixels .....	1305 (H) x 1049 (V)	Motion Detection.....	On / Off (4 zones)
Total Pixels .....	1312 (H) x 1069 (V)	Privacy.....	On / Off (16 zones)
TV System.....	NTSC	Mirror / V-Flip.....	On / Off
Scanning System.....	Progressive	Sharpness .....	0 - 15 (level adjustable)
S/N Ratio .....	More than 50dB	Lens Shading Compensation .....	On / Off
Frame Rate.....	Max 50P/60P	3DNR.....	Off / Low / Middle / High
Video Output .....	1.0Vp-p / 75 ohms	Defog.....	On (Auto / Manual) / Off
Lens.....	DC / Manual	DIS.....	On / Off
Electronic Shutter Speed.....	Auto / Manual	Power Supply .....	12VDC / 24VAC dual voltage operation
	(1/60 sec. - 1/60,000 sec.) / Flicker		(power supply not included)
WDR.....	On (Low / Middle / High) / Off	Power Consumption .....	12VDC, 590mA / 24VAC, 230mA
Digital WDR.....	On (Low / Middle / High) / Off	Operating Temperature.....	-4° F – 140° F
Day/Night.....	Color / BW / Auto / Ext	Dimensions.....	3.94" (W) x 3.94" (H) x 8.27" (L)
White Balance .....	Auto / Auto Ext / AWC – SET / Manual	Weight .....	3.09 lbs.
Brightness.....	0 - 20 (level adjustable)		

### Optional Accessories



**INTJBS**  
Square  
Junction Box



**INTCM**  
Corner/Pole  
Adaptor



**CVCJBB**  
Bullet Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



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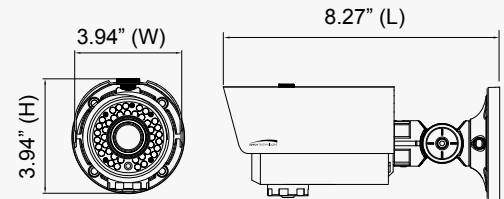


## 1000 TVL Indoor/Outdoor IR Vandal Resistant Bullet with True WDR

**HT7040K** 2.8-12mm auto-iris varifocal lens, dark grey housing

### Features

- 1/3" 1.3MP Sony Sensor
- 1000 TV lines highest resolution in analog
- True WDR functionality
- 12VDC & 24VAC dual voltage operation
- Vandal / tamper resistant operation
- IP67 compliant
- 5 year warranty



### Specifications

Image Sensor.....1/3" 1.3MP Sony Sensor	Brightness.....0 - 20 (level adjustable)
Resolution.....1000 TV lines	AGC.....0 - 20 (level adjustable)
Minimum Illumination.....0 lux (IR LEDs on)	Smart-IR.....0 - 20 (level adjustable)
Effective Pixels.....1305 (H) x 1049 (V)	Sense-Up.....(x2 – x32)
Total Pixels.....1312 (H) x 1069 (V)	Motion Tracking.....On / Off
TV System.....NTSC	Motion Detection.....On / Off (4 zones)
Scanning System.....Progressive	Privacy.....On / Off (16 zones)
Number IR LEDs.....42	Mirror / V-Flip.....On / Off
IR Range.....Up to 98 ft. (depending on scene reflection)	Sharpness.....0 - 15 (level adjustable)
IR LED Wavelength.....850m	Lens Shading Compensation.....On / Off
S/N Ratio.....More than 50dB	3DNR.....Off / Low / Middle / High
Frame Rate.....Max 50P/60P	Defog.....On (Auto / Manual) / Off
Video Output.....1.0Vp-p / 75 ohms	DIS.....On / Off
Lens.....DC / Manual	Power Supply.....12VDC / 24VAC dual voltage operation (power supply not included)
Electronic Shutter Speed.....Auto / Manual (1/60 sec. - 1/60,000 sec.) / Flicker	Power Consumption.....12VDC, 450mA / 24VAC, 190mA
WDR.....On (Low / Middle / High) / Off	Operating Temperature.....-4° F – 140° F
Digital WDR.....On (Low / Middle / High) / Off	Dimensions.....3.94" (W) x 3.94" (H) x 8.27" (L)
Day/Night.....Color / BW / Auto / Ext	Weight.....3.09" lbs.
White Balance.....Auto / Auto Ext / AWC – SET / Manual	

### Optional Accessories



**INTJBS**  
Square  
Junction Box



**INTCM**  
Corner/Pole  
Adaptor



**CVCJBB**  
Bullet Camera  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



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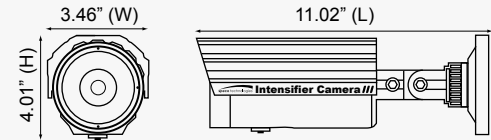
## Intensifier H® Series Indoor/Outdoor Bullet Camera

See Color In Almost Complete Darkness Without IR LEDs

- HTINTB8H** 2.8 -12mm auto iris varifocal lens, dark grey housing  
**HTINTB8HW** 2.8 -12mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD™ CCD
- 700 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensify @ 512x)
- Now with presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 12VDC / 24VAC dual voltage operation
- Full OSD operation
- External controls for zoom & focus
- S/N Ratio more than 52dB (weight on)
- EZ mount system simplifies installation
- Relay outputs for motion detection
- Weather resistant operation
- IP66 compliant
- Anti-moisture glass and circuitry eliminates fog or condensation under any weather condition
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	700 TV lines
Minimum Illumination.....	CDS off: 0.15 lux CDS on: 0.00002 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System.....	NTSC
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. – 1/120,000 sec.
OSD.....	Available
DWDR .....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto / Ext
AGC.....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K – 11,000°K)
Intensify .....	Auto / Off (selectable 2x – 512x)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Consumption .....	12VDC, 400mA / 24VAC, 170mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature.....	-4° F – 140° F
Dimensions.....	3.46" (W) x 4.01" (H) x 11.02" (L)
Weight .....	3 lbs.

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### Optional Accessories

<b>INTJBS</b> Square Junction Box	<b>INTCM</b> Corner/Pole Adaptor	<b>CVCJBB</b> Round Junction Box	<b>PSW4</b> 24VAC Power Supply	<b>PSW5</b> 12VDC Power Supply

## 960H Wide Dynamic Range Indoor/Outdoor IR Bullet Camera

**WDRB10H** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- True WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" Sony Super HAD™ CCD
- 700 TV lines of resolution
- 42 IR LEDs
- Highest resolution: vivid sharp picture in complete darkness
- 3DNR (digital noise reduction)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor .....1/3" Sony Super HAD™ CCD (dual scan)  
 Resolution.....700 TV lines  
 Minimum Illumination.....0.000006 lux @ F1.2 / IR LED On  
 Effective Pixels .....976 (H) x 494 (V)  
 Total Pixels .....1028 (H) x 508 (V)  
 TV System.....NTSC  
 Scanning System.....2:1 interlace  
 Number of IR LEDs .....42  
 IR Range .....98 ft. (depending on scene reflection)  
 IR LED Wavelength .....850nm  
 S/N Ratio .....52dB  
 Video Output.....1.0Vp-p / 75 ohms  
 Backlight Compensation.....BLC / HLC / Off  
 Day/Night.....Auto / Color / BW / Ext  
 AGC.....High / Middle / Low  
 Sense-Up.....Auto / Off (x2 – x512)  
 White Balance .....ATW / AWB / AWC – Set /  
 Manual (1,800°K – 10,500°K)

Mirror .....H-Rev / V-Rev / Rotate / PIP  
 Digital Zoom .....x16  
 Defect Compensation .....Auto (64 points)  
 3DNR.....Off / Low / Mid. Low / Mid. High / High  
 DIS.....On / Off  
 Power Supply .....12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Power Consumption .....12VDC, 700mA / 24VAC, 350mA  
 Storage Temperature/  
 Humidity.....-4° F – 140° F / 20% – 95% RH  
 Operating Temperature/  
 Humidity.....-4° F – 140° F / 20% – 80% RH  
 Dimensions.....3.94" (W) x 3.94" (H) x 8.27" (L)  
 Weight .....3.09 lbs.



WDR



no WDR

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### Optional Accessories



**INTCM**  
Corner/Pole  
Adaptor



**INTJBS**  
Square  
Junction Box



**CVCJBB**  
Round  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

## 960H 700 TVL Indoor/Outdoor IR Bullet Camera

**HT7040H** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- 42 IR LEDs
- Highest resolution: vivid sharp picture in complete darkness
- No noise, ghosting effect with DNR
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- De-fog
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor .....	1/3" 960H color CCD
Resolution.....	700 TV lines
Minimum Illumination.....	0.01 lux @ F1.2 / IR LED On
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System.....	NTSC
Scanning System.....	2:1 interlace
Number of IR LEDs .....	42
IR Range .....	98 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
S/N Ratio .....	52dB
Video Output.....	1.0Vp-p / 75 ohms
DWDR .....	Outdoor / Indoor / Off
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Auto / Day / Night / Ext
AGC.....	High / Middle / Low
Sense-Up.....	Auto / Off (x2 – x256)
White Balance .....	ATW / AWB / AWC – Set / Manual (1,800°K – 11,000°K)

Privacy Masking .....	8 zones
Mirror .....	H-Rev / V-Rev / Rotate / PIP
Digital Zoom .....	x32
Smart Digital Zoom.....	On / Off
De-Fog.....	Manual / Auto / Off
Defect Compensation.....	Auto (512 points)
3DNR.....	1 – 200 level selectable
DIS.....	On / Off
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 700mA / 24VAC, 320mA
Storage Temperature/	
Humidity.....	-4° F – 140° F / 20% – 95% RH
Operating Temperature/	
Humidity.....	-4° F – 140° F / 20% – 95% RH
Dimensions.....	3.94" (W) x 3.94" (H) x 8.27" (L)
Weight .....	3.08 lbs.

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### Optional Accessories



**INTCM**  
Corner/Pole  
Adaptor



**INTJBS**  
Square  
Junction Box



**CVCJBB**  
Round  
Junction Box



**PSW4**  
24VAC  
Power Supply



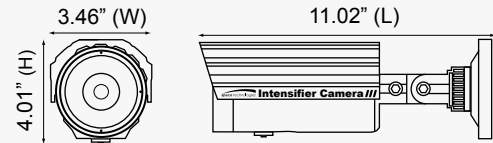
**PSW5**  
12VDC  
Power Supply

## 960H Wide Dynamic Range Indoor/Outdoor Bullet Camera

**WDRB11H** 2.8-12mm auto iris varifocal lens, dark grey housing

### Features

- True WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" Sony Super HAD™ CCD
- 700 TV lines of resolution
- 3DNR (digital noise reduction)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- 3 axis lens mount
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor	1/3" Sony Super HAD™ CCD (dual scan)
Resolution	700 TV lines
Minimum Illumination	0.000006 lux
Effective Pixels	976 (H) x 494 (V)
Total Pixels	1028 (H) x 508 (V)
TV System	NTSC
Scanning System	2:1 interlace
S/N Ratio	52dB
Video Output	1.0Vp-p / 75 ohms
Backlight Compensation	BLC / HLC / Off
Day/Night	Auto / Color / BW / Ext
AGC	High / Middle / Low
Sense-Up	Auto / Off (x2 – x512)
White Balance	ATW / AWB / AWC – Set / Manual (1,800°K – 10,500°K)

Mirror	H-Rev / V-Rev / Rotate / PIP
Digital Zoom	x16
Defect Compensation	Auto (64 points)
3DNR	Off / Low / Mid. Low / Mid. High / High
DIS	On / Off
Power Supply	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption	12VDC, 400mA / 24VAC, 170mA
Storage Temperature/ Humidity	-4° F – 140° F / 20% – 95% RH
Operating Temperature/ Humidity	-4° F – 140° F / 20% – 80% RH
Dimensions	3.46" (W) x 4.01" (H) x 11.02" (L)
Weight	3 lbs.



WDR



no WDR

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### Optional Accessories



**INTCM**  
Corner/Pole  
Adaptor



**INTJBS**  
Square  
Junction Box



**CVCJBB**  
Round  
Junction Box



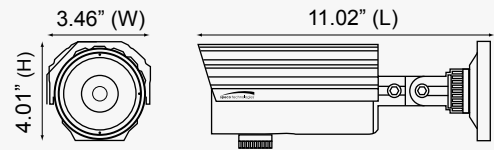
**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

## 960H Indoor/Outdoor IR Bullet Camera with 10x Optical Motorized Zoom

**HTB10XH** 3.8-38mm auto iris varifocal lens (10x optical zoom)



### Features

- 1/3" Sony ExView™ CCD
- 700 TV lines of resolution
- 35 IR LEDs
- Highest resolution: vivid sharp picture in complete darkness
- Motorized zoom lens control via RS485
- 3DNR (digital noise reduction)
- DWDR (digital wide dynamic range)
- Smart digital zoom
- Full OSD operation
- Digital image stabilizer
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....1/3" Sony ExView™ CCD  
 Resolution.....700 TV lines  
 Minimum Illumination.....0 lux  
 Effective Pixels .....976 (H) x 494 (V)  
 Total Pixels .....1028 (H) x 508 (V)  
 TV System.....NTSC  
 Scanning System.....2:1 interlace  
 Number of IR LEDs .....35  
 IR Range .....98 ft. (depending on scene reflection)  
 IR LED Wavelength .....850nm  
 S/N Ratio .....52dB  
 Video Output.....1.0Vp-p / 75 ohms  
 Backlight Compensation.....On / Off  
 Day/Night.....Auto / Color / BW / Ext  
 AGC.....High / Middle / Low  
 Sense-Up.....Auto / Off (x2 – x256)  
 White Balance .....ATW / AWB / AWC – Set /  
 Manual (1,800°K – 10,500°K)

Mirror .....H-Rev / V-Rev / Rotate / PIP  
 Digital Zoom .....x12  
 Defect Compensation.....Auto (256 points)  
 3DNR.....On / Off / Smart  
 DIS.....On / Off  
 Power Supply .....12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Power Consumption .....12VDC, 700mA / 24VAC, 350mA  
 Storage Temperature/  
 Humidity.....-4° F – 140° F / 20% – 95% RH  
 Operating Temperature/  
 Humidity.....-4° F – 140° F / 20% – 80% RH  
 Dimensions.....3.46" (W) x 4.01" (H) x 11.02" (L)  
 Weight .....3 lbs.

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### Optional Accessories



**INTCM**  
Corner/Pole  
Adaptor



**INTJBS**  
Square  
Junction Box



**CVCJBB**  
Round  
Junction Box



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



## Intensifier3® Series Indoor/Outdoor Bullet Camera

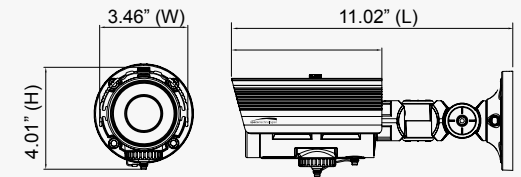
See Color In Almost Complete Darkness Without IR LEDs

<b>HTINTB8</b>	2.8 - 12mm auto iris varifocal lens, dark grey housing
<b>HTINTB8W</b>	2.8 - 12mm auto iris varifocal lens, white housing
<b>HTINTB9</b>	5 - 50mm auto iris varifocal lens, dark grey housing
<b>HTINTB9W</b>	5 - 50mm auto iris varifocal lens, white housing
<b>HTINTB10</b>	9 - 22mm auto iris varifocal lens, dark grey housing
<b>HTINTB10W</b>	9 - 22mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 650 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- Anti-moisture glass and circuitry eliminates fog or condensation under any weather condition external controls for zoom & focus
- S/N Ratio more than 52dB (weight on)
- EZ mount system simplifies installation
- Relay outputs for motion detection
- Weather resistant operation
- IP66 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

**INT  
3**








### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD	White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K – 11,000°K)
Resolution.....	650 TV lines	Intensifier3® .....	Auto / Off (selectable 2x - 512x)
Minimum Illumination.....	CDS off: 0.15 lux / CDS on: 0.00002 lux	Motion Detection.....	On / Off (8 programmable zones)
Effective Pixels .....	768 (H) x 494 (V)	Privacy Masking .....	On / Off (12 programmable zones)
Total Pixels .....	811 (H) x 508 (V)	Speco DNR.....	On / Off (level adjustable)
TV System.....	NTSC	Digital Zoom .....	On / Off (1x - 16x)
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)	DIS.....	On / Off
Scanning System.....	2:1 interlace	Sharpness .....	On / Off (level adjustable)
Synchronization.....	Internal	Flip/Mirror .....	On / Off
S/N Ratio .....	More than 52dB	Power Consumption .....	12VDC, 400mA / 24VAC, 170mA
Video Output.....	CVBS: 1.0Vp-p / 75 ohms	Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Electronic Shutter Speed.....	1/60 sec. – 1/120,000 sec.	Operating Temperature.....	-4° F – 140° F
OSD.....	Available	Dimensions.....	3.46" (W) x 4.01" (H) x 11.02" (L)
WDR .....	On / Off (level adjustable)	Weight .....	3 lbs.
Backlight Compensation.....	BLC / HLC / Off		
Day/Night.....	Color / BW / Auto		
AGC.....	High / Low / Off		

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Rev. 2/22/13



### Optional Accessories

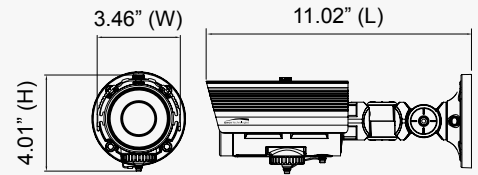
				
<b>CVCJBB</b> Bullet Camera Junction Box	<b>INTJBS</b> Square Junction Box	<b>INTCM</b> Corner/Pole Adaptor	<b>PSW4</b> 24VAC Power Supply	<b>PSW5</b> 12VDC Power Supply

## Intensifier3® Series Weather Resistant Focus Free Bullet Camera

See Color In Almost Complete Darkness Without IR LEDs

**HTB11FFi** 2.8 - 10mm auto iris focus free motorized zoom lens, dark grey housing

**INT  
3**



### Features

- 1/3" Sony Super HAD II™ CCD
- 650 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- External controls for zoom & focus
- S/N Ratio more than 52dB (weight on)
- EZ mount system simplifies installation
- Relay outputs for motion detection
- Weather resistant operation
- IP66 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications






Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution .....	650 TV lines
Minimum Illumination.....	CDS off: 0.15 lux / CDS on: 0.00002 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
TV System.....	NTSC
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. - 1/120,000 sec.
OSD.....	Available
WDR.....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto
AGC.....	High / Low / Off
White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)

Intensifier3® .....	Auto / Off (selectable x2 - x512)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip/Mirror .....	On / Off
Power Consumption .....	12VDC, 400mA / 24VAC, 170mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
RS485 (Protocols).....	PELCO-D, PELCO-P, BOSCH, HONEYWELL, VICON, PANA, STW (SPD)
Operating Temperature.....	- 4° F – 140° F
Storage Temperature.....	- 4° F – 140° F
Dimensions .....	3.46" (W) x 4.01" (H) x 11.02" (L)
Weight .....	3 lbs.

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### Optional Accessories

				
<b>INTJBS</b> Square Junction Box	<b>INTCM</b> Corner/Pole Adaptor	<b>CVCJBB</b> Round Junction Box	<b>PSW4</b> 24VAC Power Supply	<b>PSW5</b> 12VDC Power Supply

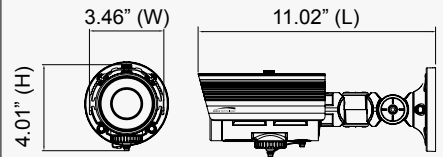


## Glacier™ Series Weather Resistant Intensifier3® Bullet Camera with Mount Plate

See Color In Almost Complete Darkness Without IR LEDs

- HTINTB8G** 2.8 -12mm auto iris varifocal lens, dark grey housing
- HTINTB8GW** 2.8 -12mm auto iris varifocal lens, white housing
- HTINTB10G** 9 -22mm auto iris varifocal lens, dark grey housing
- HTINTB10GW** 9 -22mm auto iris varifocal lens, white housing

**INT  
3**



### Features

- 1/3" Sony Super HAD II™ CCD
- 650 TV lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Automatic thermostatic sensor
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Full OSD operation
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- -40° with Glacier™ heaters
- External controls for zoom & focus
- EZ mount system simplifies installation
- Weather resistant operation
- 12VDC / 24VAC dual voltage operation
- 5 year warranty






### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD	Privacy Masking .....	On / Off (12 programmable zones)
Resolution.....	650 TV lines	Speco DNR.....	On / Off (level adjustable)
Minimum Illumination.....	CDS Off: 0.15 lux / CDS On: 0.00002 lux	Digital Zoom .....	On / Off (1x - 16x)
Effective Pixels .....	768 (H) x 494 (V)	DIS.....	On / Off
Total Pixels .....	811 (H) x 508 (V)	Sharpness .....	On / Off (level adjustable)
TV System.....	NTSC	Flip/Mirror .....	On / Off
Scanning Frequency.....	15.734kHz (H) / 59.94Hz (V)	Power Consumption .....	12VDC, 250mA (heater off)
Scanning System.....	2:1 interlace		800mA (heater on)
Synchronization .....	Internal		24VAC, 100mA (heater off)
S/N Ratio .....	More than 52dB		380mA (heater on)
Video Output.....	CVBS: 1.0Vp-p / 75 ohms	Power Supply .....	12VDC / 24VAC dual voltage operation
Electronic Shutter Speed.....	1/60 sec. – 1/120,000 sec.		(power supply not included)
OSD.....	Available	Operating Temperature/	
WDR.....	On / Off (level adjustable)	Humidity.....	- 40° F – 140° F / RH 95% max.
Backlight Compensation.....	BLC / HLC / Off		- 40° F with Glacier™ heaters
Day/Night.....	Color / BW / Auto	Storage Temperature/	
AGC.....	High / Low / Off	Humidity.....	- 4° F – 140° F / RH 95% max.
White Balance .....	ATW / Outdoor / Indoor / Manual / AWC	Dimensions .....	3.46" (W) x 4.01" (H) x 11.02" (L)
	(1,700°K - 11,000°K)	Weight .....	3 lbs.
Intensifier3® .....	Auto / Off (selectable 2x - 512x)		
Motion Detection.....	On / Off (8 programmable zones)		

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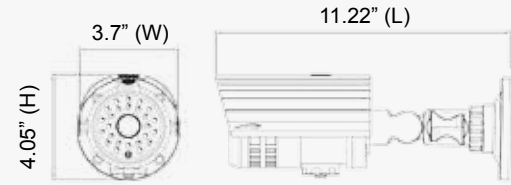


### Optional Accessories

-   
**CVCJBB**  
Round  
Junction Box
-   
**INTJBS**  
Square  
Junction Box
-   
**INTCM**  
Corner/Pole  
Adaptor
-   
**PSW4**  
24VAC  
Power Supply
-   
**PSDC24**  
12VDC  
Power Supply

## Intense-IR Series Weather Resistant Color Day/Night Bullet Camera

- CVC5815DNV** 2.8-12mm auto iris varifocal lens, dark grey housing
- CVC5815DNVW** 2.8-12mm auto iris varifocal lens, white housing
- CVC5915DNV** 5-50mm auto iris varifocal lens, dark grey housing
- CVC5915DNVW** 5-50mm auto iris varifocal lens, white housing



### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- True Day/Night compatibility
- 3DNR - sharp image under ultra low light level
- Intense-IR function - non-saturated, vivid image
- Defect function - elimination of white spots
- HSBLC (High Light Suppression BLC)
- Privacy zone
- Two heaters to stop condensation
- Third-Generation DSP chip
- ICR - removable IR cut filter
- Full OStD operation
- 32x digital zoom
- External control rings for easy focus and distance adjustment
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD	Motion Detection.....	On / Off (4 zones)
Resolution.....	600 TV lines	Sense-Up.....	Off / Auto (selectable limit x2 - x256)
Minimum Illumination.....	0.000006 lux (IR LEDs on)	Mirror .....	Mirror / V-Flip / Rotate / Off
Effective Pixels .....	768 (H) x 494 (V)	Freeze .....	On / Off
Total Pixels .....	811 (H) x 508 (V)	Day/Night.....	Color / BW / Auto
Number of IR LEDs .....	35	Digital Zoom .....	On (32x) / Off
IR Range .....	Up To 65 ft. (depending on scene reflection)	Defect Compensation .....	256 points
IR LED Wavelength .....	850nm	Power Consumption .....	12VDC, 950mA max. / 24VAC, 330mA
White Balance .....	ATW / AWB / Manual / AWC - Set	Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
AGC.....	Low / Middle / High / Off	Operating Temperature/	
S/N Ratio .....	52dB (AGC off, Weight on)	Humidity.....	- 4° F – 140° F / RH 95% max.
Backlight Compensation.....	BLC / HSBLC / Off	Storage Temperature/	
Electronic Shutter Speed.....	Auto (1/50 sec., 1/60 sec. - 1/100,000 sec.)	Humidity.....	- 4° F – 140° F / RH 95% max.
OSD.....	Available	Dimensions.....	3.7" (W) x 4.05" (H) x 11.22" (L)
3DNR.....	On / Off (0-100 levels adjustable)	Weight .....	3.53 lbs.
DWDR .....	Indoor / Outdoor / Off		
Sharpness .....	0 - 31' (level adjustable)		
Privacy.....	On / Off (8 zones)		
Scanning System.....	2:1 interlace		
Synchronization.....	Internal		

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### Optional Accessories

<b>CVCJBB</b> Bullet Camera Junction Box	<b>INTJBS</b> Square Junction Box	<b>INTCM</b> Corner/Pole Adaptor	<b>PSW4</b> 24VAC Power Supply	<b>PSDC24</b> 12VDC Power Supply

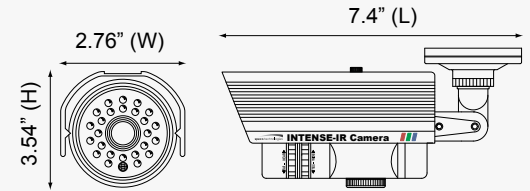


## Intense-IR Series Weather Resistant Color Day/Night Bullet Camera

- CVC5715DNV** 4-9mm auto iris varifocal lens, dark grey housing  
**CVC5715DNVW** 4-9mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- True Day/Night capability
- 3DNR - sharp image under ultra low light level
- Intense-IR function - non-saturated, vivid image
- Defect function - elimination of white spots
- HSBLC (High Light Suppression BLC)
- Privacy zone
- Two heaters to stop condensation
- Third-Generation DSP chip
- ICR - Removable IR cut filter
- Full OSD operation
- 32x digital zoom
- External control rings for easy focus and distance adjustment
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ CCD  
 Resolution..... 600 TV lines  
 Minimum Illumination..... 0.000006 lux (IR LEDs on)  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Total Pixels ..... 811 (H) x 508 (V)  
 Number of IR LEDs ..... 14  
 IR Range ..... Up to 49 ft. (depending on scene reflection)  
 IR LED Wavelength ..... 850nm  
 White Balance ..... ATW / AWB / Manual / AWC - Set  
 AGC..... High / Middle / Low / Off  
 Backlight Compensation..... BLC / HSBLC / Off  
 Electronic Shutter Speed..... Auto (1/50, 1/60 sec. - 1/100,000 sec.)  
 OSD..... Available  
 3DNR..... On / Off (1 - 50 levels adjustable)  
 DWDR ..... Indoor / Outdoor / Off  
 Sharpness ..... 0 - 31' (level adjustable)  
 Privacy..... On / Off (8 zones)  
 Scanning System..... 2:1 interface

Synchronization ..... Internal / Line-Lock  
 Motion Detection..... On / Off (4 zones, alarm output)  
 Sense-Up..... Off / Auto (selectable limit x2 - x256)  
 Mirror ..... Mirror / V-Rev / Rotate / Off  
 Freeze ..... On / Off  
 Day/Night..... Color / BW / Auto  
 Digital Zoom ..... On (32x) / Off  
 Defect Compensation ..... 256 points  
 Power Supply ..... 12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Power Consumption ..... IR LEDs on: 300mA (max.)  
 Operating Temperature/  
 Humidity..... - 4° F - 140° F / RH 95% max.  
 Storage Temperature/  
 Humidity..... - 4° F - 140° F / RH 95% max.  
 Dimensions..... 2.76" (W) x 3.54" (H) x 7.4" (L)  
 Weight ..... 1.32 lbs.

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 Spec Rev. 5/30/13



### Optional Accessories



**INTCM**  
Corner/Pole  
Adaptor



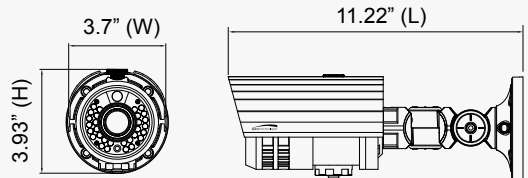
**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

## Weather Resistant Bullet Cameras with PIR Sensor & White LEDs

- CVC5100BPVF** 2.8 - 12mm auto iris varifocal lens, dark grey housing  
**CVC5100BPVFW** 2.8 - 12mm auto iris varifocal lens, white housing



### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- True Day/Night capability
- Digital Deterrent®: white LEDs are turned on when motion is triggered
- 24 IR LEDs & 6 white LEDs
- Digital image stabilization
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	600 TV lines
Minimum Illumination.....	CDS off: 0.15 lux CDS on: 0.00002 lux
Effective Pixels .....	811 (H) x 508 (V) 768 (H) x 494 (V)
Number of LEDs.....	IR: 24, white: 6
IR Range .....	Up To 65 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
White Balance .....	ATW / Outdoor / Indoor / Manual AWC (1,700°K - 11,000°K)
AGC.....	High / Low / Off
Backlight Compensation .....	BLC / HLC / Off
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. - 1/120,000 sec.
Sharpness .....	On / Off (level adjustable)
Privacy Masking .....	On / Off (12 programmable zones)
Scanning Frequency.....	15.734kHz (H) & 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
TV System.....	NTSC
Day/Night.....	Color / BW / Auto

Sense-Up.....	Auto / Off (selectable x2 - x512)
Motion Detection.....	On / Off (8 programmable zones)
Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Flip/Mirror .....	On / Off
SSDR.....	On / Off (level adjustable)
3DNR.....	On / Off (level adjustable)
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	12VDC, 250mA (CDS off, PIR off) 600mA (CDS on, PIR on) Heater on adj: 200 - 600mA 24VAC 100mA (CDS off, PIR off), 250mA (CDS on, PIR on) Heater on adj: 120 - 250mA
Operating Temperature/ Humidity.....	- 4° F – 140° F / RH 95% max.
Storage Temperature/ Humidity.....	- 4° F – 140° F / RH 95% max.
Dimensions.....	3.7" (W) x 3.93" (H) x 11.22" (L)
Weight .....	3.5 lbs.

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### Optional Accessories

- |  |   |  |                                      |                                      |
|--|---|--|--------------------------------------|--------------------------------------|
|  |   |  |                                      |                                      |
| <b>CVCJBB</b><br>Bullet Camera<br>Junction Box | <b>INTJBS</b><br>Square<br>Junction Box | <b>INTCM</b><br>Corner/Pole<br>Adaptor | <b>PSW4</b><br>24VAC<br>Power Supply | <b>PSW5</b><br>12VDC<br>Power Supply |

## Bullet Cameras with Motion Detection & White LEDs

- VL5700BPVF** 4-9mm auto iris varifocal lens, dark grey housing
- VL5700BPVFW** 4-9mm auto iris varifocal lens, white housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- True Day/Night capability
- Digital Deterrent®: white LEDs are turned on when motion is triggered
- 14 IR LEDs & 2 white LEDs
- ICR-IR cut filter removable
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD	Privacy.....	On / Off (8 zone)
Resolution.....	600 TV lines	Mirror.....	Off / Mirror / V-Rev / Rotate
Minimum Illumination.....	0.000006 lux (IR LED on)	Freeze.....	On / Off
Effective Pixels .....	768 (H) x 494 (V)	Sharpness .....	0-31' (level adjustable)
Total Pixels .....	811 (H) x 508 (V)	Day/Night.....	Color / BW / Auto / EXT
Scanning System.....	2:1 interlace	Digital Zoom .....	On (32x) / Off
Number of LEDs.....	IR: 14, white: 6	Defect Compensation.....	128 Points
IR Range .....	Indoor 65 ft. / Outdoor 32 ft. (depending on scene reflection)	Heater.....	1 EA
IR LED Wavelength.....	850nm	Power Consumption .....	12VDC, 220mA (CDS off, heater on) / 400mA (CDS off, heater on) 24VAC, 100mA (CDS off, heater on) / 150mA (CDS off, heater on)
Synchronization.....	Internal / Line Lock (option)	Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
OSD.....	Available	Operating Temperature/ Humidity.....	14° F – 122° F / RH 95% max.
Backlight Compensation....	Off / HSBL / BLC	Storage Temperature/ Humidity.....	-4° F – 140° F / RH 95% max.
S/N (Y signal) .....	52dB (AGC off, weight on)	Dimensions.....	2.75" (W) x 3.54" (H) x 7.4" (L)
White Balance .....	ATW / AWB / Manual / AWC - Set	Weight .....	1.1 lbs.
Electronic Shutter Speed....	Auto: (1/50 sec., 1/60 sec. - 1/100,000 sec.)		
Sense-Up.....	Off / Auto (selectable limit x2 - x256)		
AGC.....	High / Middle / Low / Off		
3DNR.....	On / Off (1-50 level adjustable)		
DWDR .....	Indoor / Outdoor / Off		
Motion Detection.....	On / Off (4 zone)		

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### Optional Accessories



**INTCM**  
Corner/Pole  
Adaptor



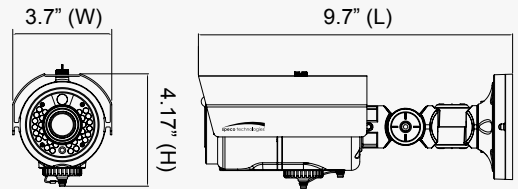
**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

## Glacier™ Series Bullet Cameras with PIR Sensor & White LEDs

- HT5100BPVFG** 2.8-12mm auto iris varifocal lens, dark grey housing
- HT5100BPVFGW** 2.8-12mm auto iris varifocal lens, white housing
- HT5200BPVFG** 5-50mm auto iris varifocal lens, dark grey housing
- HT5200BPVFGW** 5-50mm auto iris varifocal lens, white housing



### Features

- 1/3" Sony Super HAD™ II CCD
- 600 TV lines of resolution
- True Day/Night capability
- Digital Deterrent®: white LEDs are turned on when motion is triggered
- 24pcs 850nm IR LEDs / 6pcs white LEDs
- External controls for zoom & focus
- Full OSD operation
- Operates at -40°F with Glacier heaters
- Automatic thermostatic sensor
- Alarm output for motion detection
- EZ mount system simplifies installation
- Weather resistant operation
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD™ II CCD	White Balance .....	ATW / Outdoor / Indoor / Manual / AWC
Resolution .....	600 TV lines	Sense-Up .....	Auto / Off (selectable x2 - x512)
Minimum Illumination .....	0.00001 lux / 0.00006 lux (IR on)	Motion Detection .....	On / Off (8 programmable zones)
Effective Pixels .....	768 (H) x 494 (V)	Privacy Masking .....	On / Off (12 programmable zones)
Total Pixels .....	811 (H) x 508 (V)	3DNR .....	On / Off (level adjustable)
Number of LEDs .....	IR: 24, white: 6	Digital Zoom .....	On / Off (1x - 16x)
IR Range .....	HT5100BPVFG: Indoor 131 ft. / Outdoor 82 ft. HT5200BPVFG: Indoor 164 ft. / Outdoor 98 ft.	DIS .....	On / Off
IR LED Wavelength .....	850nm	Sharpness .....	On / Off (level adjustable)
TV System .....	NTSC	Flip/Mirror .....	On / Off
Scanning Frequency .....	15.734kHz (H) & 59.94Hz (V)	Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Scanning System .....	2:1 interlace	Power Consumption DC ... Heater on: 1.1A, heater off: 450mA	
Synchronization .....	Internal	Power Consumption AC ... Heater on: 500mA, heater off: 250mA	
S/N Ratio .....	More than 52dB	Operating Temperature/	
Video Output .....	CVBS: 1.0Vp-p / 75 ohms	Humidity .....	- 40° F – 140° F / RH 95% max.
Electronic Shutter Speed ..	1/60 sec. – 1/120,000 sec.	Storage Temperature/	
SSDR .....	On / Off (level adjustable)	Humidity .....	- 4° F – 140° F / RH 95% max.
Backlight Compensation ...	BLC / HLC / Off	Dimensions .....	3.7" (W) x 4.17" (H) x 9.7" (L)
Day/Night .....	Color / BW / Auto	Weight .....	3.08 lbs.
AGC .....	Low / High / Off		

### Optional Accessories

-   
**CVCJBB**  
 Round  
 Junction Box
-   
**INTJBS**  
 Square  
 Junction Box
-   
**INTCM**  
 Corner/Pole  
 Adaptor
-   
**PSW4**  
 24VAC  
 Power Supply
-   
**PSDC24**  
 12VDC  
 Power Supply

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## Weather Resistant Long Range IR Bullet Camera

**HLED69B3B** 6-50mm auto iris varifocal lens, black housing

### Features

- High-contrast imaging performance that delivers sharp, clear pictures
- 190 IR LEDs work perfectly even in total darkness to deliver clear images
- Weather resistant operation
- IP66 compliant
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" 960H CCD  
 Resolution..... 650 TV lines  
 Minimum Illumination..... 0 lux (with IR LEDs on)  
 Type..... Color / Monochrome (removable IR cut filter)  
 Effective Pixels ..... 1020 (H) x 508 (V)  
 Number of IR LEDs ..... 190  
 IR Range ..... 245 - 262 ft. (depending on scene reflection)  
 IR LED Wavelength ..... 850nm  
 TV System..... NTSC  
 S/N Ratio ..... More than 52db  
 Video Output..... 1.0Vp-p / 75 ohms

Electronic Shutter Speed..... 1/60 sec. – 1/100,000 sec.  
 Scanning System..... 2:1 interlaced  
 White Balance ..... ATW  
 AGC..... On  
 Gamma..... 0.45  
 Power Consumption ..... 1350mA  
 Power Supply ..... 12VDC (power supply not included)  
 Operating Temperature..... -22° F – 104° F  
 Housing ..... Compact die cast aluminum sunshield  
 Dimensions..... 13.4" (L) x 11" (W) x 7.9" (H)  
 Weight ..... 6 lbs.

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 Spec Rev. 2/22/13



### Optional Accessory



**PSDC24**  
 12VDC  
 Power Supply

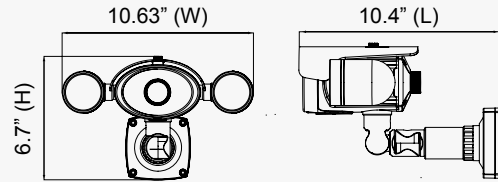
## Day/Night Weather Resistant Bullet Cameras with Digital Noise Reduction

**HT7048IRVF** 2.8 - 12mm auto varifocal lens, dark grey housing

**HT7049IRVF** 6 - 50mm auto iris varifocal lens, dark grey housing

### Features

- 1/3" Sony Super HAD™ CCD
- 600 TV lines of resolution
- True Day/Night compatibility
- High performance W-V chip
- Multi-mount is a unique mount allowing installers to manipulate the camera to almost any angle with simplicity
- Zero noise and no ghosting effect with Digital Noise Reduction (DNR)
- External control rings for easy focus and distance adjustment
- Highest resolution: vivid, sharp picture in complete darkness
- Front glass heater: with built-in temperature sensor for immediate removal of condensation
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	600 TV Lines
Minimum Illumination.....	IR LEDs off: 0.15 lux / IR LEDs on: 0.00002 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
Number of IR LEDs .....	HT7048IRVF – 98
	HT7049IRVF – 30 super high powered
IR Range .....	HT7048IRVF – 131 ft. / HT7049IRVF – 164 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
TV System.....	NTSC
Scanning Frequency.....	15.734KHz (H) / 59.94Hz (V)
Scanning System.....	2:1 interlaced
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed..	1/60 sec. - 1/120,000 sec.
Backlight Compensation...	BLC / HLC / Off
Day/Night.....	Color / BW / Auto / EXT
AGC.....	High / Low / Off
White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)
Sense-Up.....	Auto / Fixed / Off (selectable x2 - x256)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)

Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip/Mirror .....	On / Off
Line Heater .....	Above 122° F Off / Below 122° F On
Power Consumption .....	12VDC, (CDS off, heater off), 220mA (CDS off, heater on), 300mA (CDS on, heater off), 1000mA (CDS on, heater on), 11000mA Heater on adj: 350 - 1110mA Heater off adj: 250 - 1000mA 24VAC, (CDS off, heater off), 130mA (CDS off, heater on), 150mA (CDS on, heater off), 480mA (CDS on, heater on), 500mA Heater on adj: 170 - 500mA Heater off Adj: 150 - 480mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature/	
Humidity.....	- 4°F – 140°F / RH 95% max.
Storage Temperature/	
Humidity.....	- 4°F – 140°F / RH 95% max.
Dimensions.....	10.63" (W) x 6.7" (H) x 10.4" (L)
Weight .....	5.95 lbs.

Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation.  
Spec Rev. 2/22/13



### Optional Accessories

<b>INTJBS</b> Square Junction Box	<b>INTCM</b> Corner/Pole Adaptor	<b>PSW4</b> 24VAC Power Supply	<b>PSDC24</b> 12VDC Power Supply



## Day/Night Weather Resistant Color Bullet Cameras / 63 IR LEDs

**VL7038IRVF** 2.8-12mm auto iris varicoal lens, dark grey housing

**VL7039IRVF** 6-50mm auto iris varicoal lens, dark grey housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- True Day/Night compatibility
- Multi-mount is a unique mount allowing installers to manipulate the camera to almost every angle with simplicity
- Zero noise and no ghosting effect with digital noise reduction (DNR)
- External control rings for easy focus & distance adjustment
- Highest resolution: vivid, sharp picture in complete darkness
- Front glass heater: with built-in temperature sensor for immediate removal of condensation
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	600 TV lines
Minimum Illumination.....	CDS off 0.15 lux / CDS on 0.00003 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
Number of IR LEDs .....	63
IR Range .....	131 ft. (depending on scene reflection)
IR LED Wavelength.....	850nm
White Balance .....	ATW / Outdoor / Indoor / Manual AWC (1,700°K - 11,000°K)
AGC.....	High / Low / Off
S/N Ratio .....	More than 52dB (AGC off, weight on)
Backlight Compensation.....	HLC / BLC / Off
Electronic Shutter Speed.....	1/50, 1/60 sec. - 1/100,000 sec.
OSD.....	Available
DNR.....	On / Off (level adjustable)
DWDR .....	Indoor / Outdoor / Off
Sharpness .....	0-31' (level adjustable)
Privacy.....	On / Off (12 zones)
Scanning System.....	2:1 interlace

Synchronization.....	Internal
Day/Night.....	Color / BW / Auto / EXT
Motion Detection.....	On / Off (8 zones)
Sense-Up.....	Off / Auto (selectable limit x2 - x256)
Mirror .....	Off / Mirror / V-Rev / H-Rev / Rotate
Digital Zoom .....	On (1x - 16x) / Off
Power Consumption .....	12VDC, 220mA (CDS off) 700mA (CDS on) heater on adj: 220-700mA 24VAC 150mA (CDS off) 450mA (CDS off) heater on adj: 170-450mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature/	
Humidity.....	- 4°F – 140°F / RH 95% max.
Storage Temperature/	
Humidity.....	- 4°F – 140°F / RH 95% max.
Dimensions.....	5.31" (W) x 3.74" (H) x 11.57" (L)
Weight .....	4 lbs.

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Spec Rev. 2/22/13



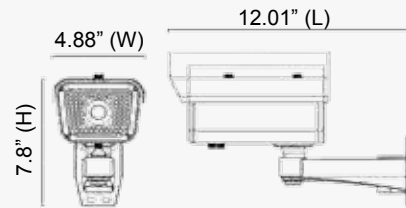
### Optional Accessories



## Weather Resistant License Plate Capture Bullet Camera

**CLPR66B4B** 9-22mm F1.4 auto iris varifocal lens, dark grey housing  
IR-corrected lens with external adjustments for zoom & focus

*Note: Because of the special nature of this camera, during the day the scene will be monochrome. All license plates will be highlighted.*

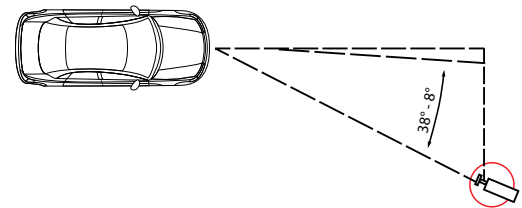
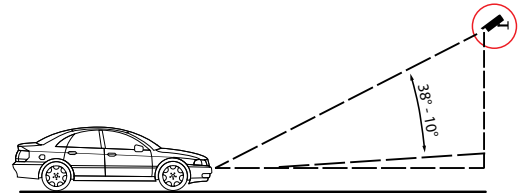


### Features

- High-contrast imaging performance that delivers sharp, clear license-plate captures
- 80 IR LEDs work perfectly even in total darkness to deliver clear license plate images
- 9-22mm varifocal IR-corrected lens optimizes day/night performance, even in very low light conditions and captures a wide field
- Captures license plates up to 24 mph
- Weather resistant operation
- IP66 compliant
- 5 year warranty

### Specifications

Image Sensor .....	1/3" 760 CCD
Resolution.....	550 TV lines
Minimum Illumination.....	0 lux (with IR LEDs on)
Effective Pixels .....	811 (H) x 508 (V)
Type.....	Monochrome
Number of IR LEDs .....	80 IR LEDs for more than 10,000 hours (140° F)
IR Range .....	6.6 - 49 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
TV System.....	NTSC
Viewing Angle .....	Horizontal: 38° (wide) - 8° (tele)
.....	Vertical: 38° (wide) - 10° (tele)
S/N Ratio .....	More than 50db (AGC off)
Video Output.....	1.0Vp-p / 75 ohms
Scanning System.....	2:1 interlaced
Power Supply .....	12VDC (power supply not included)
Power Consumption .....	200mA
Operating Temperature.....	-22° F – 140° F
Housing .....	Compact die cast aluminum sunshield
Dimensions.....	4.88" (W) x 7.8" (H) x 12.01" (L)
Weight .....	4.2 lbs.



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### Optional Accessory



**PSW5**  
12VDC  
Power Supply

## Weather Resistant Long Range License Plate Capture Bullet Camera

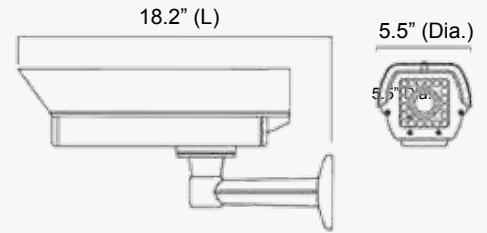
**CLPR67B4B** 10-40mm F1.4 auto iris varifocal lens, black housing  
IR-corrected lens with internal adjustments for zoom & focus

*Note: Because of the special nature of this camera, during the day the scene will be monochrome. All license plates will be highlighted.*

### Features

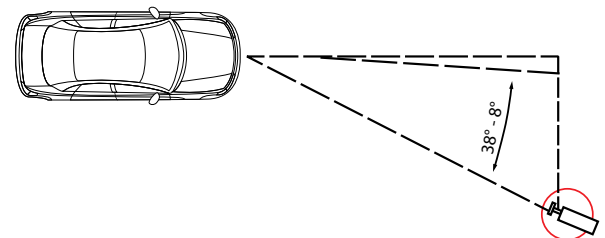
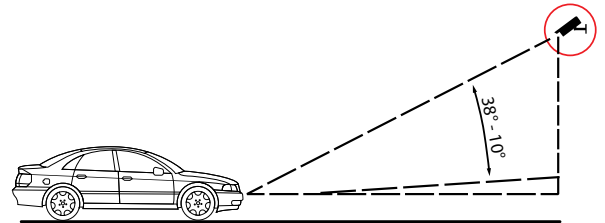
- High-contrast imaging performance that delivers sharp, clear license-plate captures
- 20 super high powered IR LEDs work perfectly even in total darkness to deliver clear license plate images
- 10-40mm varifocal IR-corrected lens optimizes day/night performance, even in very low light conditions and captures a wide field
- Captures license plates at up to 110 mph
- Weather resistant operation
- IP66 compliant
- 5 year warranty

**IR**



### Specifications

Image Sensor .....	1/3" 760 CCD
Resolution.....	550 TV lines
Minimum Illumination.....	0 lux ( with IR LEDs on)
Effective Pixels .....	811 (H) x 508 (V)
Type.....	Monochrome
Number of IR LEDs .....	20 high powered IR LEDs for more than 10,000 hours (140° F)
IR Range .....	16.3 - 98.3 ft. (depending on scene reflection)
IR LED Wavelength .....	850nm
TV System.....	NTSC
Viewing Angle .....	Horizontal: 38° (wide) - 8° (tele)
.....	Vertical: 38° (wide) - 10° (tele)
S/N Ratio .....	More than 50db (AGC off)
Video Output.....	1.0Vp-p / 75 ohms
Scanning System.....	2:1 interlaced
Power Supply .....	12VDC (power supply included)
Power Consumption .....	1300mA
Operating Temperature.....	- 22° F – 140° F
Housing .....	Compact die cast aluminum sunshield
Dimensions.....	5.5" (Dia.) x 18.2" (L)
Weight .....	5.5 lbs.



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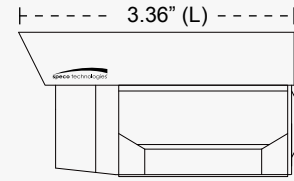
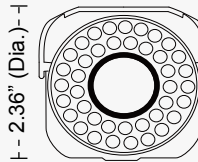


## 960H Weather Resistant IR Bullet Camera

**CVC617H** 4.3mm fixed lens, dark grey housing

### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- IR Range: 65' (depending on scene reflection)
- Weather resistant operation
- IP66 compliant
- 12VDC operation
- Mounting bracket included
- 5 year warranty



### Specifications

Image Sensor .....	1/3" 960H color CCD
Resolution.....	700 TV lines
Minimum Illumination.....	0.00 lux (IR LED on)
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
Number of IR LEDs .....	24
IR Range .....	65' (depending on scene reflection)
Scanning System.....	2:1 interlaced
Synchronization .....	Internal
S/N Ratio .....	48dB
Video Output.....	CVBS: 1.0Vp-p, 75 ohms
Electronic Shutter Speed.....	1/60 sec. – 1/100,000 sec.
Backlight Compensation.....	Automatic
AGC.....	Automatic
Power Consumption .....	120mA (IR LED off), 350mA (IR LED on)
Power Supply .....	12VDC (power supply not included)
Operating Temperature.....	14° F – 120° F
Dimensions.....	2.36" (Dia.) x 3.36" (L)
Weight .....	12.8 oz.
Included in Package .....	Mounting bracket with screws

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Spec Rev. 1/20/14



### Optional Accessory



**PSW5**  
12VDC  
Power Supply



## Weather Resistant Color Camera with Built-In IR LEDs and Sunshield

**VL62** 4mm fixed lens, black housing

**VL62W** 4mm fixed lens, white housing

### Features

- 1/3" Sony Super HAD™ II CCD
- 650 TV lines of resolution
- Color Day/Night camera
- Built-in 4mm lens
- 12 IR LEDs with 60 ft. range (depending on scene reflection)
- Weather resistant operation
- 12VDC power supply included
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD™ II CCD  
 Resolution..... 650 TV lines  
 Minimum Illumination..... 0 lux with IR on / 0.001 lux IR off  
 Effective Pixels ..... 976 (H) x 494 (V)  
 Number of IR LEDs ..... 12  
 IR Range ..... 60 ft. (depending on scene reflection)  
 IR LED Wavelength ..... 850nm  
 Electronic Shutter Speed..... 1/60 sec. – 1/1,000,000 sec.  
 Video S/N Ratio ..... More than 52dB  
 Gamma..... 0.45 typ.  
 Video Signal Output..... 1.0Vp-p / 75 ohms  
 Scanning System..... 2:1 Interlace

Synchronization ..... Internal  
 Backlight Compensation ..... Yes  
 AGC..... Yes  
 Operating Temperature/  
 Humidity..... -4° F – 122° F / 20% – 90% RH  
 Storage Temperature..... -13° F – 158° F  
 Power Consumption ..... LED off (90mA) / LED on (160mA)  
 Power Supply ..... 12VDC (power supply included)  
 Housing ..... Plastic  
 Dimensions..... 4.37" (L) x 3.98" (H) x 2.05" (Dia.)  
 Weight ..... 8.8 oz.  
 Included in Package ..... Mounting bracket

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 Spec Rev. 2/18/14



## Color Waterproof Marine Camera

**CVC627M** 3.6mm wide angle lens, white housing

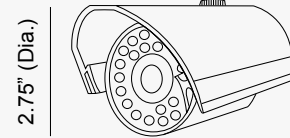
### Features

- 600 TV lines of resolution
- Waterproof: can stand up to extreme elements and full immersion in water
- Attractive housing: white to blend in with your surroundings
- Stainless steel white mount & screws; will not rust
- Great for marine applications: compatible with plotters that accept composite video inputs
- IP67 compliant
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

**IR**



3.65" (L)



### Specifications

Image Sensor ..... 1/3" color CCD  
 Resolution..... 600 TV lines  
 Minimum Illumination..... 0.1 lux (LED off), 0 lux (LED on)  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Number of IR LEDs ..... 20  
 IR Range ..... 65 ft. (depending on scene reflection)  
 IR LED Wavelength..... 850nm  
 Iris..... Electronic shutter  
 Electronic Shutter Speed..... 1/60 sec. – 1/100,000 sec.  
 TV Standard ..... NTSC  
 Synchronization ..... Internal  
 Scanning System..... 2:1 interlace  
 Video Output..... 1Vp-p / 75 ohms  
 Gamma..... 0.45 typ.  
 S/N Ratio ..... 48dB  
 AGC..... Automatic  
 Backlight Compensation..... Automatic

Operation Depth ..... 90 ft.  
 Power Consumption ..... 120mA (LED off), 370mA (LED on)  
 Power Supply ..... 12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Operating Temperature..... 14° F – 120° F  
 Housing ..... Waterproof, removable/ adjustable sunshield,  
 stainless steel screws and mount  
 Mount..... Stainless steel, universal wall/ceiling  
 mount included  
 Dimensions..... 2.75" (Dia.) x 3.65" (L)  
 Weight ..... 12.5 oz.  
 Cable ..... 10' power / video cable included  
 Included In Package..... DC power pigtail, wall/ceiling mount,  
 installation hardware

Also available: **CVC627MR**  
 (reverse image camera for help in backing up)

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 Spec Rev.9/25/12



### Optional Accessories



**PSW4**  
24VAC  
Power Supply



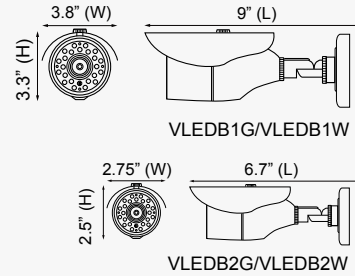
**PSW5**  
12VDC  
Power Supply

## IR Indoor/Outdoor Bullet Camera

- VLEDB1G** 2.8-12mm auto iris varifocal lens, dark grey housing
- VLEDB1W** 2.8-12mm auto iris varifocal lens, white housing
- VLEDB2G** 3.6mm fixed lens, dark grey housing
- VLEDB2W** 3.6mm fixed lens, white housing

### Features

- 1/3" Panasonic CCD
- 0 lux with 36 IR LEDs built-in (VLEDB1G/VLEDB1W)  
0 lux with 24 IR LEDs built-in (VLEDB2G/VLEDB2W)
- 98' IR range (depending on scene reflection) (VLEDB1G/VLEDB1W)  
65' IR range (depending on scene reflection) (VLEDB2G/VLEDB2W)
- IP66 compliant
- 2 year warranty



### Specifications

Image Sensor .....	1/3" Panasonic CCD
Resolution.....	600 TV lines
Minimum Illumination.....	0.1 lux, 0 lux with IR on
Effective Pixels .....	769 (H) x 494 (V)
Number of LEDs .....	VLEDB1G/VLEDB1W: 36 VLEDB2G/VLEDB2W: 24
IR Range .....	VLEDB1G/VLEDB1W: Up to 98' (depending on scene reflection) VLEDB2G/VLEDB2W: Up to 65' (depending on scene reflection)
IR LED Wavelength .....	850nm
IR Status.....	IR on: under 10 lux, by CDS auto control
Electronic Shutter .....	Auto (1/60 sec. - 1/100,000 sec.)
S/N Ratio .....	More than 48dB
Backlight Compensation..	Auto
White Balance .....	Auto

AGC.....	Auto
Gamma.....	0.45 typ.
Scanning System.....	2:1 interlace
Synchronization .....	Internal
Video Signal Output.....	1.0Vp-p / 75 ohms
Operating Temperature....	14° F – 122° F
Storage Temperature.....	-4° F – 140° F
Power Consumption .....	Max. 100mA (IR off) VLEDB1G/VLEDB1W: max. 360mA (IR on) VLEDB2G/VLEDB2W: max. 300mA (IR on)
Power Supply .....	12VDC (power supply not included)
Dimensions.....	VLEDB1G/VLEDB1W: 3.8 (W) x 3.3 (H) x 9 (L) VLEDB2G/VLEDB2W: 2.75" (W) x 2.5" (H) x 6.7" (L)
Weight .....	VLEDB1G/VLEDB1W: 1.4 lbs. VLEDB2G/VLEDB2W: 9.6 oz.

### Optional Accessory



**PSW5**  
12VDC  
Power Supply

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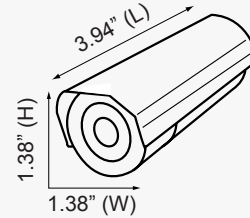


## Weather Resistant Bullet Camera

**CVC6705SCS** 4-9mm auto iris varifocal lens, dark grey housing

### Features

- 1/3" Sony Super HAD™ CCD
- 540 TV lines of resolution
- Full OSD operation
- Mirror Image - To reverse field of view
- Privacy Screens - easy user set-up and dynamic control for exact settings
- Adjustability of several other camera functions including contrast, sharpness, CB-gain, etc.
- Includes mounting bracket
- Weather resistant operation
- IP66 compliant
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	540 TV lines
Minimum Illumination.....	0.1 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
Electronic Shutter Speed.....	1/60 sec. - 1/100,000 sec.
S/N Ratio .....	More than 50dB
Signal Output.....	1.0Vp-p / 75 ohms
Scanning System.....	2:1 interlaced
Synchronization .....	Internal / Line Lock
Backlight Compensation.....	On / Off (adjustable)
AGC.....	On / Off (adjustable)
TV System .....	NTSC

Privacy Function .....	On / Off (4 zone)
White Balance .....	ATW / AWB / Manual / AWC — SET
OSD.....	Available
Day/Night.....	Color / BW / Auto
Operating Temperature/ Humidity.....	-14°F – 120°F / RH 95% max.
Storage Temperature/ Humidity.....	-30°F – 140°F / RH 95% max.
Power Consumption .....	120mA
Power Supply .....	12VDC (power supply not included)
Dimensions.....	1.38" (W) x 1.38" (H) x 3.94" (L)
Weight .....	1 lb.

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### Optional Accessory



**PSW5**  
12VDC  
Power Supply

## 960H Ultra Wide Angle Color Bullet Camera

**CVC638170** 2.2mm lens, 170° angle of view, black housing

### Features

- 170° field of view allows you to see small areas like elevators, vestibules, and counting rooms without any loss of coverage.
- The ultra-wide angle lens will fully view these small spaces when properly installed and positioned
- 1/3" Sony Super HAD II™ color CCD
- 700 TV lines of resolution
- Miniature mounting bracket included
- 5 year warranty

960



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ color CCD
Resolution.....	700 TV lines
Minimum Illumination.....	0.001 lux (sense-up on)
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
Electronic Shutter .....	Auto 1/60 sec. – 100,000 sec.
Scanning Frequency.....	15.75kHz (H) / 60Hz (V)
Scanning System.....	2:1 interlace
S/N Ratio .....	More than 52dB
Video Output.....	1.0Vp-p / 75 ohms
Power Consumption .....	115mA
Power Supply .....	12VDC (UL & CSA listed power supply included)
Operating Temperature/	
Humidity.....	14° F – 122° F / within 95% RH
Dimensions.....	1.5" (W) x 3.2" (Dia.)
Weight .....	6.53 oz.

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## Miniature Color Bullet Camera with Built-In 3.6mm Lens

**CVC637EX** 3.6mm fixed lens, dark grey housing

**CVC637EXW** 3.6mm fixed lens, white housing

### Features

- 1/3" color Sony Super HAD™ CCD
- 540 TV lines of resolution
- Miniature color bullet camera offers excellent color performance, ultra high resolution and low light capability of 0.1 lux
- Includes mounting bracket and screws
- Compact and lightweight for discrete installations
- Weather resistant operation
- 5 year warranty



### Specifications

Image Sensor	1/3" color Sony Super HAD™ 410k CCD
Resolution	540 TV lines
Minimum Illumination	0.1 lux
Effective Pixels	768 (H) x 494 (V)
Video Output	1.0Vp-p / 75 ohms
Scanning System	2:1 interlace
Electronic Shutter	Auto (1/60 sec. - 1/120,000 sec.)
Video S/N Ratio	More than 50dB
Power Consumption	150mA
Power Supply	12VDC (power supply not included)
Operating Temperature/	
Humidity	14° F – 122° F / within 95% RH
Housing	Aluminum
Dimensions	2.7" (L) x 1" (W) x 1" (H)
Weight	3.8 oz.

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### Optional Accessory



**PSW5**  
12VDC  
Power Supply



## Economy Weather Resistant BW Bullet Camera

**CVC130R** 3.6mm wide angle lens, black housing  
optional lenses available

### Features

- Includes mounting bracket
- Weather resistant operation
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" BW CCD  
 Resolution..... 420 TV lines  
 Minimum Illumination..... 0.02 lux  
 Effective Pixels ..... 512 (H) x 492 (V)  
 Scanning System..... 2:1 interlace  
 Synchronization ..... Internal  
 Video Output..... 1.0Vp-p / 75 ohms  
 S/N Ratio ..... More than 48dB  
 Electronic Shutter Speed..... Auto: 1/60 sec. - 1/100,000 sec.  
 Scanning Frequency..... 15.75kHz (H) / 60Hz (V)  
 Outputs/Connections ..... BNC - video output, power - DC jack  
 Power Supply ..... 12VDC (UL & CSA listed power supply included)  
 Power Consumption ..... 110mA  
 Operating Temperature/  
 Humidity..... - 20°F – 120°F / within 95% RH  
 Dimensions..... 1" (Dia.) x 2" (L)  
 Weight ..... 2.2 oz.  
 Housing ..... Black / Aluminum

### Optional Lenses

CVC130R2.5 ..... 2.5mm lens  
 CVC130R6 ..... 6mm lens  
 CVC130R8 ..... 8mm lens  
 CVC130R12 ..... 12mm lens

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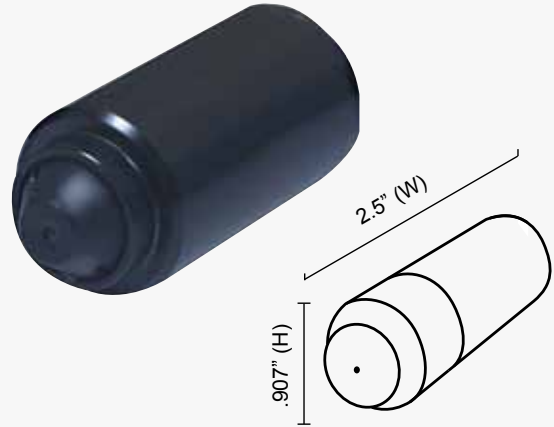


## Color Conical Pinhole Bullet Camera

**CVC622PH** 4.3mm conical pinhole lens, black housing

### Features

- Pinhole lens allows camera to view through a 1/16" hole
- Conical shape is perfect to use with thicker materials like ceiling tiles or sheet rock
- Miniature size is easy to conceal
- Miniature mount included
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" CCD  
 Resolution..... 380 TV lines  
 Minimum Illumination..... 1 lux  
 Effective Pixels ..... 512 (H) x 492 (V)  
 Electronic Shutter Speed..... Auto: 1/60 sec. - 100,000 sec.  
 Output..... RCA with BNC adapter, power - DC jack  
 Scanning Frequency..... 15.75kHz (H) / 60Hz (V)  
 Scanning System..... EIA standard 525 TV lines, 60 fields per sec.  
 S/N Ratio ..... More than 48dB  
 Video Output..... 1.0Vp-p / 75 ohms  
 Power Consumption ..... 130mA  
 Power Supply ..... 12VDC (UL & CSA listed power supply included)  
 Operating Temperature/  
 Humidity..... -20° F – 122° F / within 95% RH  
 Dimensions..... 2.5" (W) x .907" (H) x .907" (L)  
 Weight ..... 2 oz.

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 Spec Rev. 2/22/13



## Waterproof Color Camera with 60 Ft. Cable

**CVC620WP** 3.6mm wide angle lens, black housing

### Features

- Completely waterproof with underwater operation capabilities to a maximum depth of 60'
- Nitrogen filled housing protects internal components
- 60' cable and mounting bracket included
- RoHS compliant
- 5 year warranty



### Specifications

Image Sensor .....	1/4" color CCD
Resolution.....	350 TV lines
Minimum Illumination.....	1.0 lux
Effective Pixels .....	510 (H) x 492 (V)
Electronic Shutter Speed.....	Auto: 1/60 sec. - 1/100,000 sec.
Synchronization .....	Internal
Interface .....	2:1
S/N Ratio .....	More than 46dB
Video Output Level .....	1.0Vp-p / 75 ohms
Scanning Frequency .....	15.75kHz (H) / 60Hz (V)
Scanning System .....	EIA standard 525 TV lines 60 fields/sec.
Maximum Operating Depth .....	60' underwater
Power Consumption .....	100mA
Power Requirements .....	12VDC (UL & CSA listed power supply included)
Operating Temperature/	
Humidity.....	- 20° F – 120° F / within 95% RH
Dimensions.....	2.5" (L) x 1.5" (Dia.) x 3.5" (H)
Weight .....	9.8 oz.
Housing .....	Brass
Cable .....	60' of power/video cable included

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Spec Rev. 2/12/14



Model	Resolution	Light Level	Voltage	Power Supply	Weather Resistant	Lens mm	Optional Lens	Format	Sun Shield	LEDs & Range	Other Features
CLPR684B	550	0	12VDC	PSW5	Yes	9-22mm VF	No	1/3"	Yes	6.6' 49'	License plate capture, weather resistant operation
CLPR6784B	550	0	12VDC	Included	Yes	10-40mm VF	No	1/3"	Yes	16.3'-98.3'	License plate capture, weather resistant operation
CVC130R	420	0.02	12VDC	Included	Yes	3.6mm Fixed Wide	No	1/3"	No	N/A	BW, weather resistant operation
CVC320WP/W	420	0	12VDC	Included	Yes	3.6mm Fixed Wide	No	1/3"	Yes	8/33'	Waterproof up to 90'
CVC51008PVF/W	600	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	24/65'	PIR sensor and white LEDs
CVC5715DNV/W	600	0.000	12VDC/24VAC	PSW4/5	Yes	4-9mm VF	No	1/3"	Yes	14/49'	Intense-IR / heaters
CVC5815DNV/W	600	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	35/65'	Intense-IR / heaters
CVC5915DNV/W	600	0.000	12VDC/24VAC	PSW4/5	Yes	5-50mm VF	No	1/3"	Yes	35/65'	Intense-IR / heaters
CVC617H	700	0	12VDC	PSW5	Yes	4.3mm Fixed	No	1/3"	Yes	24/65'	960H, IR LEDs, weather resistant
CVC620WP	350	1.0	12VDC	Included	Yes	3.6mm Fixed	No	1/4"	No	N/A	Waterproof up to 60' / includes 60' cable
CVC622PH	380	1.0	12VDC	Included	No	3.6mm Conical Pinhole	No	1/3"	No	N/A	Conical pinhole for thick materials
CVC627M	420	0.1	12VDC	PSW5	Yes	2.9mm Fixed	No	1/4"	Yes	20/65'	Marine applications
CVC627MR	420	0.1	12VDC	PSW5	Yes	2.9mm Fixed	No	1/4"	Yes	20/65'	Marine applications, reversed image
CVC637EX/W	540	0.1	12VDC	PSW5	Yes	3.6mm Fixed	No	1/3"	No	N/A	Miniature bullet
CVC638170	700	0.001	12VDC	Included	No	2.2mm-Wide	No	1/3"	No	N/A	Ultra-wide 170 degree view
CVC6705SCS	540	0.1	12VDC	PSW5	Yes	4-9mm VF	No	1/3"	Yes	N/A	Full OSD operation
HLED98B3B	650	0	12VDC	PSDC24	Yes	6-50mm VF	No	1/3"	Yes	245'-262'	Long range IR LEDs
HT5100BPVFG/W	600	0.00001	12VDC/24VAC	PSW4/PSDC24	Yes	2.8-12mm VF	No	1/3"	Yes	24/131' (Indoor), 82' (Outdoor)	Glacier™ heaters, PIR sensor and white LEDs
HT5200BPVFG/W	600	0.00001	12VDC/24VAC	PSW4/PSDC24	Yes	5-50mm VF	No	1/3"	Yes	24/164' (Indoor), 98' (Outdoor)	Glacier™ heaters, PIR sensor and white LEDs
HT7040H	700	0.01	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	42/98'	960H, IR LEDs, weather resistant, full OSD operation
HT7040K	1000	0	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	42/98'	IR LEDs, wide dynamic range, weather/vandal resistant
HT7048RVF	600	0.000	12VDC/24VAC	PSW4/PSDC24	Yes	2.8-12mm VF	No	1/3"	Yes	98/196'	Two IR floods / multi-mount
HT7049RVF	600	0.000	12VDC/24VAC	PSW4/PSDC24	Yes	6-50mm VF	No	1/3"	Yes	98/229'	Two IR floods / multi-mount
HTB10XH	700	0	12VDC/24VAC	PSW4/5	Yes	3.8-38mm VF, 10x Zoom	No	1/3"	Yes	35/98'	960H, IR LEDs, full OSD operation
HTB11FFI	650	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-10mm VF	No	1/3"	Yes	N/A	Focus Free / see color in the dark w/ No IR
HTINT70K	1000	0	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	N/A	Intensifier K™, wide dynamic range, weather/vandal resistant
HTINTB10,W	650	0.000	12VDC/24VAC	PSW4/5	Yes	9-22mm VF	No	1/3"	Yes	N/A	Intensifier® see color in the dark with no IR LEDs
HTINTB10G,W	650	0.000	12VDC/24VAC	PSW4/PSDC24	Yes	9-22mm VF	No	1/3"	Yes	N/A	Glacier™ heaters, see color in the dark with no IR
HTINTB8,W	650	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	N/A	Intensifier® see color in the dark with no IR LEDs
HTINTB8G,W	650	0.000	12VDC/24VAC	PSW4/PSDC24	Yes	2.8-12mm VF	No	1/3"	Yes	N/A	Glacier™ heaters, see color in the dark w/ no IR
HTINTB8H,W	700	0.00002	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	N/A	960H, Intensifier™ see color in the dark with no IR LEDs
HTINTB9,W	650	0.000	12VDC/24VAC	PSW4/5	Yes	5-50mm VF	No	1/3"	Yes	N/A	See color in the dark with no IR LEDs
VL57008PVF/W	600	0.000006	12VDC/24VAC	PSW4/5	Yes	4-9mm VF	No	1/3"	Yes	14/65' (Indoor), 32' (Outdoor)	Motion detection IR LEDs
VL62,W	650	0.001	12VDC	Included	Yes	4mm Fixed	No	1/3"	Yes	12/60'	IR LEDs, weather resistant
VL62,W	650	0.001	12VDC	Included	Yes	4mm Fixed	No	1/3"	Yes	14/32'	Waterproof / plastic housing
VL66,W	650	0	12VDC/24VAC	PSW4	Yes	2.8-12mm VF	No	1/3"	Yes	18/60-90'	IR LEDs, weather resistant
VL66,W	650	0.092	12VDC/24VAC	Included	Yes	2.8-12mm VF	No	1/3"	Yes	18/60'	Weather resistant operation / metal housing
VL7038IRV/F	600	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	63/131'	Heater / multi-mount
VL7039IRV/F	600	0.000	12VDC/24VAC	PSW4/5	Yes	6-50mm VF	No	1/3"	Yes	63/131'	Heater / multi-mount
VLEDB1G,W	600	0	12VDC	PSW5	Yes	2.8-12mm VF	No	1/3"	Yes	36/98'	IR LEDs, weather resistant
VLEDB2G,W	600	0	12VDC	PSW5	Yes	3.6mm Fixed	No	1/3"	Yes	24/65'	IR LEDs, weather resistant
WDRB10H	700	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	42/98'	960H, IR LEDs, wide dynamic range, full OSD operation
WDRB11H	700	0.000	12VDC/24VAC	PSW4/5	Yes	2.8-12mm VF	No	1/3"	Yes	N/A	960H, wide dynamic range, full OSD operation

W: Housings are also available in white.



Model	Resolution	Light Level	Voltage	Power Supply	Housing	Lens mm	Optional Lens	Format	LEDs / Range	Other Features
CCLR13D1G	600	0.1	12VDC	PSW5	Mini / Weather / Tamper Resistant	2.8-12mm VF	No	1/3"	N/A	Miniature color dome with Chameleon Cover™
CCLR13D7G	600	0.1	12VDC	PSW5	Mini / Weather / Tamper Resistant	3.6mm Fixed	No	1/3"	N/A	Miniature color dome with Chameleon Cover™
CCLR13D8G	600	0.1	12VDC	PSW5	Mini / Weather / Tamper Resistant	6mm Fixed	No	1/3"	N/A	Miniature color dome with Chameleon Cover™
CCLR25D7W	600	0.1	12VDC	PSW5	Mini / Indoor	3.6mm Fixed	No	1/3"	N/A	Diamond Dome™ series, miniature indoor camera
CDD11HW	700	0.01	12VDC	PSW5	Mini / Indoor	3.6mm Fixed	No	1/3"	N/A	960H Diamond Dome™ series miniature indoor camera
CIL10016B.W	600	0.00001	12VDC	PSW4/5	Mini / Weather / Vandal Resistant	2.5mm Wide-Angle	No	1/3"	N/A	Miniature intense light color camera
CIL113D1G	620	0.00001	12VDC/24VAC	PSW4/5	Mini / Weather / Vandal Resistant	2.8-12mm VF	No	1/3"	N/A	Miniature intense light color camera with Chameleon Cover™
CIL113D7G	620	0.00001	12VDC/24VAC	PSW4/5	Mini / Weather / Vandal Resistant	3.6mm Fixed	No	1/3"	N/A	Miniature intense light color camera with Chameleon Cover™
CLED30D1B.W	600	0.01	12VDC	PSW5	Indoor	3.6mm Fixed	No	1/3"	65'	Indoor only, IR LEDs
CLED30D7B.W	600	0.01	12VDC	PSW5	Indoor	2.8-12mm VF	No	1/3"	65'	Indoor only, IR LEDs
CPT228D5W	700	0.5	12VDC	PSW5	Indoor, PTZ	3.9-85.8mm	No	1/4"	N/A	22x motorized optical zoom, surface mount
CPT229D5W	700	0.1	12VDC/24VAC	PSW4/5	Weather Resistant, PTZ	3.9-85.8mm	No	1/4"	N/A	22x motorized optical zoom, surface mount
CPT232D5W	700	0.00001	12VDC/24VAC	PSW4/5	Weather Resistant, PTZ	3.9-85.8mm	No	1/4"	N/A	22x motorized optical zoom, all-in-one
CVC530D0PVF.W	600	0.000	12VDC/24VAC	PSW4/5	Weather Resistant, Turret	2.8-12mm VF	No	1/3"	24/65'	PIR sensor with white LEDs
CVC582D0DNV.W	600	0.000	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	33/65'	Intense-IR series
CVC583D0NV.W	600	0.000	12VDC/24VAC	PSW4/5	Weather / Tamper Resistant	2.8-12mm VF	No	1/3"	33/65'	Intense-IR series
CVC584D0NV.W	600	0.000	12VDC/24VAC	PSW4/5	Weather / Tamper Resistant, Turret	2.8-12mm VF	No	1/3"	42/90'	Intense-IR series
CVC593D0NV.W	600	0.000	12VDC/24VAC	PSW4/5	Weather / Tamper Resistant	9-22mm VF	No	1/3"	33/65'	Intense-IR series
CVC594D0NV.W	600	0.000	12VDC/24VAC	PSW4/5	Weather / Tamper Resistant, Turret	5-50mm VF	No	1/3"	42/90'	Intense-IR series
CVC6146SCS.W	630	0.00001	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	N/A	Full OSD operation
CVC61HRB.W	540	0.1	12VDC	PSW5	Weather / Tamper Resistant, Turret	3mm Fixed	No	1/3"	N/A	Miniature, IP66 compliant
CVC61LTB.W	600	0.00001	12VDC	PSW5	Weather / Tamper Resistant, Turret	3mm Fixed	No	1/3"	N/A	Miniature, IP66 compliant, extreme low light function
CVC6246HR.W	700	0.000	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	N/A	960H, Intensifier H®, see color in darkness without IR LEDs
CVC6246LR.W	650	0.000	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	N/A	Intensifier series, see color in darkness without IR LEDs
CVC62HRB.W	540	0.1	12VDC	PSW5	Weather / Tamper Resistant, Turret	4.3mm Fixed	No	1/3"	N/A	Miniature, IP66 compliant
CVC62LTB.W	600	0.00001	12VDC	PSW5	Weather / Tamper Resistant, Turret	4.3mm Fixed	No	1/3"	N/A	Miniature, IP66 compliant, extreme low light function
CVC71HRB.W	540	0.000	12VDC	PSW5	Weather / Tamper Resistant	3.4mm Fixed	No	1/3"	10/30'	Miniature, IP66 compliant
HINT13D7G	650	0.000	12VDC	PSW5	Weather / Tamper Resistant	3.6mm Fixed	No	1/3"	N/A	Intensifier series, Full OSD operation, Chameleon Cover™
HINT13H	700	0.000	12VDC/24VAC	PSW4/5	Weather / Tamper / Vandal Resistant	3.6mm Fixed	No	1/3"	N/A	960H, Intensifier H®, see color in darkness without IR LEDs
HLED31D1B.W	650	0.01	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	75'	Indoor only, IR LEDs
HLED31D7B.W	650	0.01	12VDC/24VAC	PSW4/5	Indoor	3.6mm Fixed	No	1/3"	75'	Indoor only, IR LEDs
HT5935H	700	0.001	12VDC/24VAC	PSW4/5	Weather / Vandal / Tamper Resistant	2.8-12mm VF	No	1/3"	N/A	960H, full OSD operation
HT5940H	700	0.01	12VDC/24VAC	PSW4/5	Weather / Vandal / Tamper Resistant	2.8-12mm VF	No	1/3"	18/66'	960H, IR LEDs, full OSD operation
HT5940K	1000	0	12VDC/24VAC	PSW4/5	Weather / Vandal / Tamper Resistant	2.8-12mm VF	No	1/3"	18/66'	Intensifier K™ series, IR LEDs, wide dynamic range
HT6040K	1000	0	12VDC/24VAC	PSW4/5	Mini / Weather / Vandal Resistant, Turret	2.8-12mm VF	No	1/3"	21/80'	Intensifier K™ series, IR LEDs, wide dynamic range
HT648H	700	0.01	12VDC/24VAC	PSW4/5	Indoor	4mm Fixed	No	1/3"	28/164'	960H, IR LEDs, full OSD operation, Chameleon Cover™
HT649H	700	0.01	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	28/164'	960H, IR LEDs, full OSD operation, Chameleon Cover™
HT670H	700	0.01	12VDC/24VAC	PSW4/5	Weather / Vandal / Tamper Resistant	4.3mm Fixed	No	1/3"	28/98'	960H, IR LEDs, full OSD operation, Chameleon Cover™
HT671H	700	0.01	12VDC/24VAC	PSW4/5	Weather / Vandal / Tamper Resistant	2.8-12mm VF	No	1/3"	28/98'	960H, IR LEDs, full OSD operation, Chameleon Cover™
HT7246H	700	0.00002	12VDC/24VAC	PSW4/5	Mini / Weather / Vandal Resistant	2.9mm Fixed	No	1/3"	10/35'	960H, IR LEDs, compact size
HT7246HR	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant / Wall / Ceiling	2.8-12mm VF	No	1/3"	N/A	Intensifier™ series, joystick controlled OSD, Chameleon Cover™
HT7247HR	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant / Wall / Ceiling	9-22mm VF	No	1/3"	N/A	Intensifier™ series, joystick controlled OSD, Chameleon Cover™
HT7248FI	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant / Wall / Ceiling	2.8-10mm FF	No	1/3"	N/A	Focus Free, joystick controlled OSD, Chameleon Cover™
HT7250HR	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant / Wall / Ceiling	5-50mm VF	No	1/3"	N/A	Intensifier™ series, joystick controlled OSD, Chameleon Cover™
HT72HG.W	700	0.00	12VDC	PSW5	Mini / Weather / Vandal Resistant, Turret	3.6mm Fixed	No	1/3"	10/35'	960H, IR LEDs, compact size
HTD10XH	700	0	12VDC/24VAC	PSW4/5	Weather / Vandal / Tamper Resistant	3.8-36mm VF, 10x Zoom	No	1/3"	28/98'	960H, IR LEDs, full OSD operation, Chameleon Cover™
HTD8FI	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant, Turret	2.8-10mm FF	No	1/3"	N/A	Intensifier series, see color in darkness without IR LEDs / Focus Free
HTINT59K	1000	0.000	12VDC/24VAC	PSW4/5	Weather / Vandal Resistant	2.8-12mm VF	No	1/3"	N/A	Intensifier K™ series, wide dynamic range
HTINT60K	1000	0.000	12VDC/24VAC	PSW4/5	Mini / Weather / Vandal Resistant, Turret	2.8-12mm VF	No	1/3"	N/A	Intensifier K™ series, wide dynamic range
HTINTD10.W	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant, Turret	9-22mm VF	No	1/3"	N/A	Intensifier series™, see color in darkness without IR LEDs
HTINTD8.W	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant, Turret	2.8-12mm VF	No	1/3"	N/A	Intensifier series™, see color in darkness without IR LEDs
HTINTD8H.W	700	0.00002	12VDC/24VAC	PSW4/5	Mini / Weather / Vandal Resistant	2.8-10mm FF	No	1/3"	N/A	960H, Intensifier™ series, see color in darkness without IR LEDs
HTINTD9.W	650	0.00002	12VDC/24VAC	PSW4/5	Weather Resistant, Turret	5-50mm VF	No	1/4"	N/A	Intensifier series™, see color in darkness without IR LEDs
HTSD12X	560	0.001	12VDC/24VAC	PSW4/5	Weather Resistant, PTZ	3.6-44.3mm Zoom	No	1/4"	N/A	12x motorized optical zoom & 12x digital zoom
HTSD37X	600	0.07	24VAC	PSDC24	Weather Resistant, PTZ	3.5-129.5mm Zoom	No	1/4"	N/A	37x motorized optical zoom & 12x digital zoom
VL644C.W	700	1	12VDC	PSW5	Indoor	2.9mm Fixed	No	1/3"	N/A	Indoor only
VL644H.W	750	0.001	12VDC	PSW5	Indoor	3.6mm Fixed	No	1/3"	N/A	960H, indoor only
VLEDT1G.W	600	0	12VDC	PSW5	Weather Resistant, Turret	2.8-12mm VF	No	1/3"	36/98'	IR LEDs, IP66 compliant
VLEDT2G.W	700	0	12VDC	PSW5	Weather Resistant, Turret	2.6mm Fixed	No	1/3"	24/65'	IR LEDs, IP66 compliant
WDRD10H	700	0.000	12VDC/24VAC	PSW4/5	Weather Resistant	2.8-12mm VF	No	1/3"	28/98'	960H, IR LEDs, wide dynamic range, Chameleon Cover™
WDRD11H	700	0.000	12VDC/24VAC	PSW4/5	Weather / Vandal Resistant	2.8-12mm VF	No	1/3"	N/A	960H, wide dynamic range, Chameleon Cover™
WDRD20H	700	0.000	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	28/164'	960H, IR LEDs, wide dynamic range, Chameleon Cover™
WDRD21H	700	0.000	12VDC/24VAC	PSW4/5	Indoor	2.8-12mm VF	No	1/3"	N/A	960H, wide dynamic range, full OSD operation

W = Housings are also available in white.

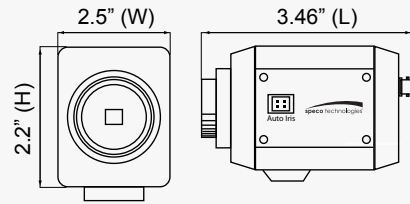
## Intensifier H® Series Traditional Cameras

See Color In Almost Complete Darkness Without IR LEDs

**HTINTT5H** Accepts C & CS auto iris & manual type lenses, dark grey housing



lens not included



### Features

- 1/3" Sony Super HAD™ CCD
- 700 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensify @ 512x)
- Now with presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 12VDC / 24VAC dual voltage operation
- Built-in OSD operation
- S/N ratio more than 52dB (weight on)
- Relay outputs for motion detection
- 5 year warranty

### Specifications

Image Sensor .....	1/3" Sony Super HAD™ CCD
Resolution.....	700 TV lines
Minimum Illumination.....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
TV System.....	NTSC
Scanning Frequency.....	15.734kHz (H) / 59.94Hz (V)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output.....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed.....	1/60 sec. – 1/120,000 sec.
OSD.....	Available
DWDR .....	On / Off (level adjustable)
Backlight Compensation.....	BLC / HLC / Off
Day/Night.....	Color / BW / Auto / Ext
AGC.....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)
Intensify .....	Auto / Off (selectable x2 - x512)
Motion Detection.....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR.....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS.....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Consumption .....	12VDC, 250mA / 24VAC, 100mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature .....	-4° F – 140° F
Storage Temperature.....	-4° F – 140° F
Dimensions.....	2.5" (W) x 2.2" (H) x 3.46" (L)
Weight .....	1.5 lbs.

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



**VCH400MT**  
Housing &  
Bracket Only



**VCH400HBMH**  
Housing with Heater,  
Blower & Bracket

### Optional Lenses

VF2.812.....	2.8-12mm manual lens	VF3.58DC.....	3.5-8mm auto iris lens
VF2.812DC...	2.8-12mm auto iris lens	VF5100DC.....	5-100mm auto iris lens
VF3.58.....	3.5-8mm manual lens	VF660DC.....	6-60mm auto iris lens

Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation. Spec Rev. 1/17/14

## Intensifier3® Series Traditional Camera

See Color In Almost Complete Darkness Without IR LEDs

**HTINTT5** Accepts C & CS auto iris & manual type lenses, dark grey housing

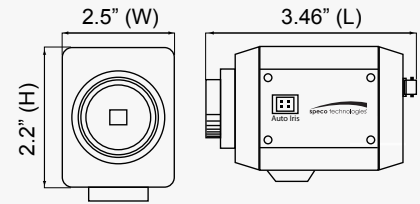
### Features

- 1/3" Sony Super HAD II™ CCD
- 650 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- 12VDC / 24VAC dual voltage operation
- Built-in OSD operation
- S/N ratio more than 52dB (weight on)
- Relay outputs for motion detection
- 5 year warranty

**INT  
3**



lens not included



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution .....	650 TV lines
Minimum Illumination .....	CDS Off: 0.15 lux CDS On: 0.00002 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
TV System .....	NTSC
Scanning Frequency .....	15.734kHz (H) / 59.94Hz (V)
Scanning System .....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed .....	1/60 sec. – 1/120,000 sec.
OSD .....	Available
WDR .....	On / Off (level adjustable)
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Color / BW / Auto
AGC .....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / Manual / AWC (1,700°K - 11,000°K)
Intensifier3® .....	Auto / Off (selectable x2 - x512)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR .....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Consumption .....	12VDC, 250mA / 24VDC, 100mA
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Operating Temperature .....	- 4° F – 140° F
Storage Temperature .....	- 4° F – 140° F
Dimensions .....	2.5" (W) x 2.2" (H) x 3.46" (L)
Weight .....	14.08 oz.

### Optional Accessories

			
<b>PSW4</b> 24VAC Power Supply	<b>PSW5</b> 12VDC Power Supply	<b>VCH400MT</b> Housing & Bracket Only	<b>VCH400HBMT</b> Housing with Heater, Blower & Bracket

### Optional Lenses

VF2.812.....2.8-12mm manual lens	VF3.58DC....3.5-8mm auto iris lens
VF2.812DC..2.8-12mm auto iris lens	VF5100DC...5-100mm auto iris lens
VF3.58.....3.5-8mm manual lens	VF660DC.....6-60mm auto iris lens

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## Intensifier3® Series Value Line Traditional Camera

See Color In Almost Complete Darkness Without IR LEDs

**VLINTT5** Accepts C & CS auto iris & manual type lenses

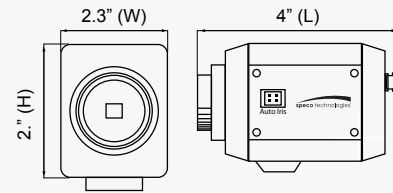
### Features

- 650 lines of color resolution
- Amplify existing light with no distance limitations
- No problems caused by objects that reflect or absorb IR light sources
- Minimum illumination 0.00002 lux (Intensifier3® @ 512x)
- Now with Presets: Outdoor, Indoor, Elevator, Lobby, Hallway & Dark
- Built-in OSD operation
- 5 year warranty

**INT  
3**



lens not included



### Specifications

Image Sensor .....	1/3" Sony Super-HAD™ CCD
Resolution .....	650 TV lines
Minimum Illumination .....	0.00002 lux (sense-up x256)
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
TV System .....	NTSC
Scanning Frequency .....	15.734kHz (H) / 59.94Hz (V)
Scanning System .....	2:1 interlace
Synchronization .....	Internal
S/N Ratio .....	More than 52dB
Video Output .....	CVBS: 1.0Vp-p / 75 ohms
Electronic Shutter Speed .....	1/60 sec. – 1/120,000 sec.
OSD .....	Available
WDR .....	On / Off (level adjustable)
Backlight Compensation .....	BLC / HLC / Off
Day/Night .....	Color / BW / Auto
AGC .....	High / Low / Off

White Balance .....	ATW / Outdoor / Indoor / AWC / Manual (1,700°K - 11,000°K)
Intensifier3® .....	Auto / Off (selectable 2x - 512x)
Motion Detection .....	On / Off (8 programmable zones)
Privacy Masking .....	On / Off (12 programmable zones)
Speco DNR .....	On / Off (level adjustable)
Digital Zoom .....	On / Off (1x - 16x)
DIS .....	On / Off
Sharpness .....	On / Off (level adjustable)
Flip / Mirror .....	On / Off
Power Supply .....	12VDC (power supply not included)
Power Consumption .....	250mA
Operating Temperature .....	- 4° F – 120° F
Storage Temperature .....	- 4° F – 120° F
Dimensions .....	2.3" (W) x 2" (H) x 4" (L)
Weight .....	10.56 oz.

### Optional Accessories



**PSW5**  
12VDC  
Power Supply



**VCH400MT**  
Housing &  
Bracket Only



**VCH400HBMT**  
Housing with Heater,  
Blower & Bracket

### Optional Lenses

VF2.812 .....	2.8-12mm manual lens	VF3.58DC .....	3.5-8mm auto iris lens
VF2.812DC .....	2.8-12mm auto iris lens	VF5100DC .....	5-100mm auto iris lens
VF3.58 .....	3.5-8mm manual lens	VF660DC .....	6-60mm auto iris lens

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## Wide Dynamic Range Traditional Color Camera

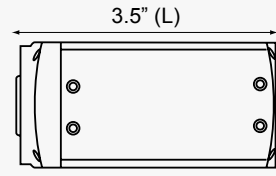
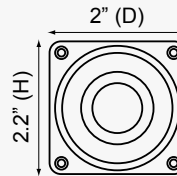
**WDRT6** Accepts C & CS type lenses

### Features

- Newest WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- Each pixel is processed independently
- Sharpest quality analog image
- 12VDC / 24VAC dual voltage operation
- 5 year warranty

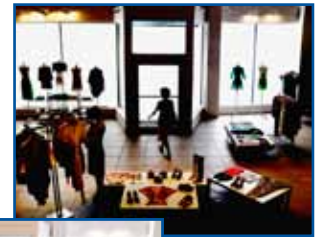


**lens not included**



### Specifications

Image Sensor .....	1/3" Pixim® Seawolf DPS
Resolution .....	690 TV lines
Minimum Illumination .....	0.1 lux (sense-up 64x)
Effective Pixels .....	758 (H) x 540 (V)
Electronic Shutter .....	Max x64 (x2, x4, x8, x16, x32, x64)
Color Balance .....	Multiple selectable factory presets for most common situations Full manual override for special applications
Video Output .....	1.0Vp-p (sync.negative) termination 75 Ohm + 10%
TV System .....	NTSC
Scanning System .....	Progressive
Synchronization .....	Internal / External
S/N Ratio .....	More than 52dB
Dynamic Range .....	120dB (max.)
AGC Control .....	0-50dB
Gamma .....	0.45 typ.
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	190mA max.
Operating Temperature .....	14° F – 122° F
Dimensions .....	2.2" (H) x 3.5" (L) x 2" (D)
Weight .....	10.6 oz.



no WDR



WDR

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



**VCH400MT**  
Housing &  
Bracket Only



**VCH400HBMt**  
Housing with Heater,  
Blower & Bracket

### Optional Lenses

VF2.812 .....	2.8-12mm manual lens	VF3.58DC .....	3.5-8mm auto iris lens
VF2.812DC .....	2.8-12mm auto iris lens	VF5100DC .....	5-100mm auto iris lens
VF3.58 .....	3.5-8mm manual lens	VF660DC .....	6-60mm auto iris lens

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## Dual Voltage Day/Night Traditional Color Camera

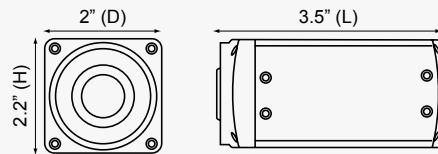
**HCLR07L0G** Accepts C and CS type lenses

### Features

- 1/3" color Sony Super HAD II™ CCD
- High quality analog image, 650 TVL
- Automatic IR cut filter
- 12VDC / 24VAC dual voltage operation
- 5 year warranty



**lens not included**



### Specifications

Image Sensor .....	1/3" color Sony Super HAD II™ CCD
Resolution .....	650 TV lines
Minimum Illumination .....	0.01 lux
Effective Pixels .....	768 (H) x 494 (V)
Electronic Shutter .....	Max x64 (x2, x4, x8, x16, x32, x64)
Shutter Speed .....	1/60 sec. – 1/100,000 sec.
Scanning System .....	2:1 interlace
Synchronization .....	Internal
White Balance .....	ATW / Manual / AWC
Backlight Compensation .....	Off / BLC / HLC / WDR
DNR .....	Auto / Low / Middle / High / Off
Mirror .....	On / Off
Day/Night .....	ICR (Auto / Color / BW)
Motion .....	On / Off, 4 zone

Privacy .....	On / Off, 8 zone
Video Output .....	1.0Vp-p (sync. negative) termination 75 Ohms + 10%
TV System .....	NTSC
S/N Ratio .....	More than 52dB
AGC .....	Low / Middle / High / Off
Gamma .....	0.45 typ.
Power Supply .....	12VDC / 24VAC dual voltage operation (power supply not included)
Power Consumption .....	290mA max.
Operating Temperature .....	14° F – 122° F
Dimensions .....	2.2" (H) x 3.5" (L) x 2" (D)
Weight .....	10.6 oz.
Included In Package .....	C-mount adaptor

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



**VCH400MT**  
Housing &  
Bracket Only



**VCH400HBM**  
Housing with Heater,  
Blower & Bracket

### Optional Lenses

VF2.812 .....	2.8-12mm manual lens	VF3.58DC .....	3.5-8mm auto iris lens
VF2.812DC .....	2.8-12mm auto iris lens	VF5100DC .....	5-100mm auto iris lens
VF3.58 .....	3.5-8mm manual lens	VF660DC .....	6-60mm auto iris lens

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## 960H 700 TVL Color Miniature Board Camera

- HT600H** 2.9mm fixed lens, black housing
- HT600VFH** 2.8-12mm auto iris varifocal lens, black housing

### Features

- 1/3" 960H color CCD
- 700 TV lines of resolution
- Day/Night - auto, day, night
- Camera Titles - up to 15 characters
- Full OSD operation
- Mirror Image - horizontal
- Privacy Screens - up to 8 zones
- Perfect for use in tight spaces like ATMs
- 5 year warranty



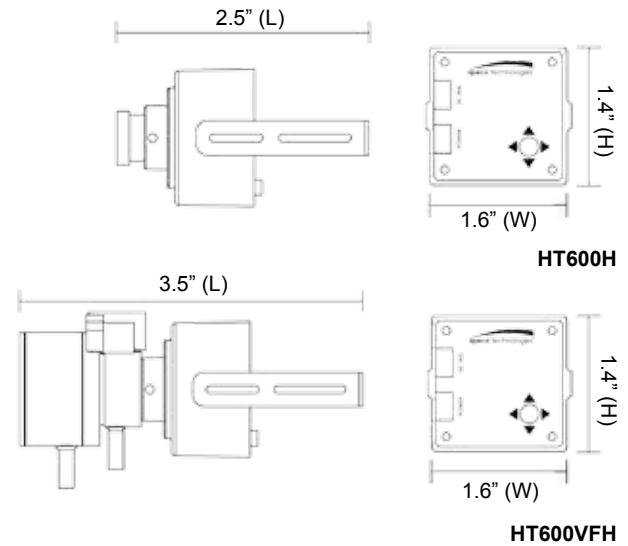
HT600H



HT600VFH

### Specifications

Image Sensor .....	1/3" 960H color CCD
Resolution.....	700 TV lines
Minimum Illumination.....	0.01 lux
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
Electronic Shutter Speed.....	Auto (1/60 sec. - 1/200,000 sec.)
S/N Ratio .....	50dB (AGC off)
Scanning System.....	2:1 interlace
Synchronization .....	Internal
Backlight Compensation.....	BLC / HLC / DWDR
White Balance .....	ATW / PUSH / Manual
AGC.....	Level adjustable
OSD.....	Built-in
DNR.....	High / Middle / Low
DWDR .....	On / Off
Motion Detection.....	On / Off (4 zone)
Privacy Function .....	On / Off (8 zone)
Mirror .....	On / Off
Sharpness .....	0 - 20' (level adjustable)
Day/Night.....	Auto / Day / Night
Power Consumption .....	120mA (max.) ± 10%
Power Supply .....	12VDC (power supply not included)
Operating Temperature/	
Humidity.....	14° F – 122° F / RH 95% max.
Storage Temperature/	
Humidity.....	-4° F – 140° F / RH 95% max.
Dimensions.....	HT600H: 1.6" (W) x 1.4" (H) x 2.5" (L) HT600VFH: 1.6" (W) x 1.4" (H) x 3.5" (L)
Weight .....	HT600H: 5.53 oz HT600VFH: 6 oz.



### Optional Accessory

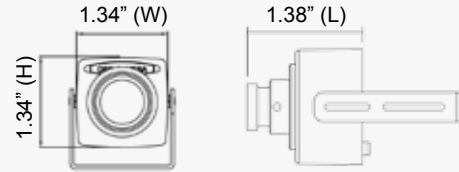


**PSW5**  
12VDC  
Power Supply

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## 960H Miniature Indoor Color WDR Board Camera

**WDR705H** 4mm fixed lens, black housing



### Features

- Newest WDR technology allows for improved image quality in scenes consisting of both bright and dark areas
- 1/3" 960H Sony HAD™ CCD
- 700 lines of color resolution
- Full OSD operation
- Compact size is perfect for use in tight spaces like ATMs
- 5 year warranty

### Specifications

Image Sensor ..... 1/3" 960H Sony HAD™ CCD (dual scan)  
 Resolution ..... 700 TV lines  
 Minimum Illumination..... 0.000006 lux  
 Effective Pixels ..... 976 (H) x 494 (V)  
 Total Pixels ..... 1028 (H) x 508 (V)  
 TV System..... NTSC  
 Scanning System..... 2:1 interlace  
 Synchronization ..... Internal  
 S/N Ratio ..... 52dB (AGC off, weight on)  
 Video Output ..... 1.0Vp-p / 75 ohms  
 Backlight Compensation..... On / Off  
 Day/Night..... Auto / Color / Ext  
 AGC..... Level Adjustable (max 42db)  
 Sense-Up..... Auto / Off (x2 – x512)  
 White Balance ..... ATW(1,800°K – 10,500°K) / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK  
 WDR..... On / Off (Contrast: Low, Mid, Low, Mid, Mid, High / High)

Motion Detection..... On / Off (4 zones)  
 Privacy..... On / Off (15 zones)  
 Mirror ..... Off / V-Flip / H-Flip / HV-Flip  
 Sharpness ..... 0 - 15 level adjustable  
 Digital Zoom ..... 0 - 255 level adjustable (x1 - x16) Pan / Tilt  
 Defect Compensation..... Auto (64 points)  
 2D/3DNR..... Off / Low / Mid. Low / Mid / Mid. High / High  
 DIS..... On / Off  
 Power Supply ..... 12VDC / 24VAC dual voltage operation (power supply not included)  
 Power Consumption ..... 12VDC, 160mA / 24VAC, 80mA  
 Operating Temperature..... -4° F – 140° F / 20% – 95% RH  
 Storage Temperature..... -4° F – 140° F / 20% – 80% RH  
 Dimensions ..... 1.34" (W) x 1.34" (H) x 1.38" (L)  
 Weight ..... 12.48 oz.

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### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

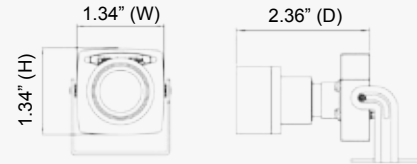


## Indoor Color Board Camera with On-Screen Display Functions

**C600VFSCS** 2.8-12mm auto iris varifocal lens, black housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 600 TV lines of resolution
- Day/Night - select color, BW or auto
- Camera Titles - up to 15 characters
- Full OSD operation
- Mirror Image - horizontal
- Privacy Screens - up to 8 zones
- Perfect for use in tight spaces like ATMs
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution.....	600 TV lines
Minimum Illumination.....	0.01 lux
Effective Pixels .....	768 (H) x 494 (V)
Total Pixels .....	811 (H) x 508 (V)
Electronic Shutter Speed.....	Auto (1/50 sec., 1/60 sec. - 1/100,000 sec.)
S/N Ratio .....	52dB (AGC off, weight on)
Scanning System.....	2:1 interlace
Synchronization.....	Internal
Backlight Compensation.....	BLC / HLC / Off
White Balance .....	ATW1 / AWC - Set / Manual / Indoor / Outdoor
AGC.....	High / Middle / Low / Off
OSD.....	Available
2DNR.....	On / Off
D-WDR.....	On / Off (0 - 63' level adjustable)

Motion Detection.....	On / Off (4 zone)
Privacy Function.....	On / Off (8 zone)
Mirror .....	On / Off
Park Line (for parking assistance)....	On / Off
Sharpness .....	0 - 31' (level adjustable)
Day/Night.....	Color / BW / Auto / EXT
Defect Compensation.....	Auto: 64 points
Power Consumption .....	120mA (max.) ± 10%
Power Supply .....	12VDC (power supply not included)
Operating Temperature/ Humidity.....	14° F – 122° F / RH 95% max.
Storage Temperature/ Humidity.....	-4° F – 140° F / RH 95% max.
Dimensions.....	1.34" (W) x 1.34" (H) x 2.36" (D)
Weight .....	1.76 oz.

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Spec Rev. 2/12/14



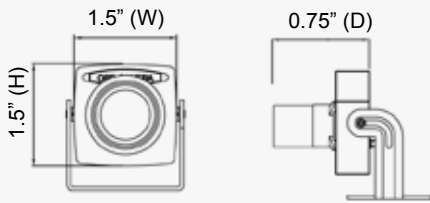
### Optional Accessory



**PSW5**  
12VDC  
Power Supply

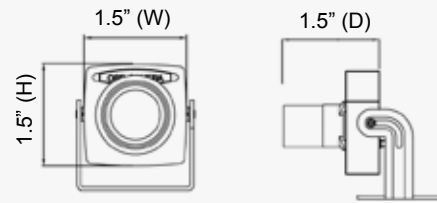
## Miniature Pinhole Camera with On-Screen Display Functions

**CVC770PHSCS** 3.7mm conical pinhole lens, black housing



## Miniature Board Camera with On-Screen Display Functions

**CVC700HRSCS** 4mm lens, black housing



### Features

- Day/Night - select color, BW or auto
- Camera Titles - up to 15 characters
- Mirror Image - horizontal
- OSD control of all major camera functions
- Privacy Screens - up to 4 zones
- Perfect for use in tight spaces like ATMs
- Mounting bracket included
- 5 year warranty

### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ CCD  
 Resolution..... 540 TV lines  
 Minimum Illumination..... 0.1 lux  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Total Pixels ..... 811 (H) x 508 (V)  
 Electronic Shutter Speed..... Auto: (1/60 sec. - 1/100,000 sec.)  
 S/N Ratio ..... 52dB (AGC Off, Weight On)  
 Scanning System..... 2:1 interlace  
 Synchronization..... Internal  
 Backlight Compensation..... On / Off (adjustable)  
 White Balance ..... ATW / AWB / Manual / Fixed  
 AGC..... On / Off (adjustable)  
 OSD..... Available  
 Motion Detection..... On / Off (8 x 8 grid)

Privacy Function..... On / Off (4 zone)  
 Mirror ..... On / Off  
 Sharpness ..... 0 - 31' (level adjustable)  
 Day/Night..... Color / BW / Auto  
 Power Consumption ..... 120mA (max.) ±10%  
 Power Supply ..... 12VDC (power supply not included)  
 Operating Temperature/  
 Humidity..... -14° F – 120° F / RH 95% max.  
 Storage Temperature/  
 Humidity..... -30° F – 140° F / RH 95% max.  
 Dimensions..... 1.5" (W) x 1.5" (H) x 1.5" (D)  
 Weight ..... 3 oz

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 and without incurring any obligation.  
 Spec Rev. 2/12/14

### Optional Accessory



**PSW5**  
12VDC  
Power Supply

## Board Camera In Aluminum Housing

**CVC544BC2** 3.6mm wide angle lens - optional lenses available



### Features

- Durable black aluminum housing
- 5 year warranty
- Mounting bracket included

### Specifications

Image Sensor ..... 1/3" color CCD  
 Resolution..... 420 TV lines  
 Minimum Illumination..... 0.92 lux  
 Electronic Shutter Speed..... Auto: 1/60 sec. - 1/100,000 sec.  
 Scanning Frequency..... 5.75kHz (H) / 60Hz (V)  
 White Balance ..... Auto  
 S/N Ratio ..... More than 46dB  
 Video Output..... 1.0Vp-p / 75 ohms  
 Output..... RCA with BNC adaptor, power - DC jack  
 Power Consumption ..... 110mA  
 Power Supply ..... 12VDC (UL and CSA listed power supply included)  
 Operating Temperature/  
 Humidity..... 14° F – 122° F / within 95% RH  
 Dimensions..... 2" (W) x 3" (H) x 1.5" (L)  
 Weight ..... 2.5 oz.

### Optional Lenses

CVC544BC22.2.....2.2mm	CVC544BC28.....8mm
CVC544BC22.5.....2.5mm	CVC544BC212.....12mm
CVC544BC22.9.....2.9mm	CVC544BC216.....16mm
CVC544BC26.....6mm	

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 Spec Rev. 2/25/13

## Color Compact Pinhole Board Camera

**CVC521PH** 3.7mm pinhole lens

### Features

- 1/3" color Sony Super HAD™ II CCD
- 600 TV lines of resolution
- Miniature size board camera
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" color Sony Super HAD™ II CCD  
 Resolution..... 600 TV lines  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Minimum Illumination..... 0.01 lux, F1.2  
 Electronic Shutter Speed..... 1/60 sec. - 1/100,000 sec.  
 Scanning Frequency..... 15.75kHz (H) / 60Hz (V)  
 Scanning System..... 2:1 interlace  
 White Balance ..... Auto  
 S/N Ratio ..... More than 48dB (AGC off)  
 Video Output..... 1.0Vp-p / 75 ohms  
 Output..... BNC output, power - DC jack  
 Power Consumption ..... 80mA  
 Power Supply ..... 12VDC (UL & CSA listed power supply included)  
 Operating Temperature/  
 Humidity..... 14° F – 122° F / within 95% RH  
 Dimensions..... 1.26" (W) x 1.26" (H)  
 Weight ..... 0.35 oz.

Spec Rev. 2/18/13

## Color Compact Board Camera

**CVC521BC** 3.6mm fixed lens - optional lenses available

### Features

- 1/3" color Sony Super HAD™ II CCD
- 600 TV lines of resolution
- Miniature size board camera
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" color Sony Super HAD™ II CCD  
 Resolution..... 600 TV lines  
 Effective Pixels ..... 768 (H) x 494 (V)  
 Minimum Illumination..... 0.1 lux, F1.2  
 Electronic Shutter Speed..... 1/60 sec. - 1/100,000 sec.  
 Scanning Frequency..... 15.75kHz (H) / 60Hz (V)  
 Scanning System..... 2:1 interlace  
 White Balance ..... Auto  
 S/N Ratio ..... More than 48dB (AGC off)  
 Video Output..... 1.0Vp-p / 75 ohms  
 Output..... BNC output, power - DC jack  
 Power Consumption ..... 80mA  
 Power Supply ..... 12VDC (UL & CSA listed power supply included)  
 Operating Temperature/  
 Humidity..... 14° F – 122° F / within 95% RH  
 Dimensions..... 1.26" (W) x 1.26" (H)  
 Weight ..... 0.35 oz.

Spec Rev. 2/25/13

### Optional Lenses

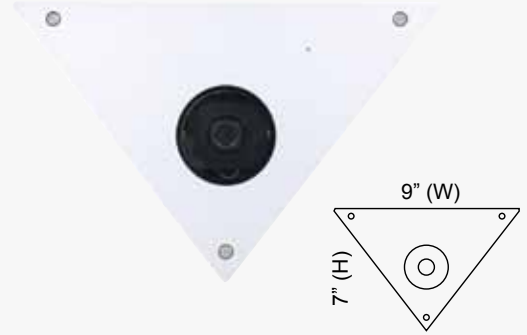
CVC521BC2.2.....2.2mm	CVC521BC8.....8mm
CVC521BC2.5.....2.5mm	CVC521BC12.....12mm
CVC521BC2.9.....2.9mm	CVC521BC16.....16mm
CVC521BC6.....6mm	

## 960H Corner Mount Color Camera

**CVC605CM** 3.6mm lens - optional lenses available, white housing

### Features

- 1/3" Sony Super HAD II™ color CCD
- 700 TV lines of resolution
- Also available in brass housing
- 92° corner mount camera
- Perfect for elevators, hallways, etc.
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ color CCD
Resolution .....	700 TV lines
Minimum Illumination .....	0.001 lux (sense-up on)
Electronic Shutter .....	1/60 sec. – 1/100,000 sec.
S/N Ratio .....	More than 46dB
Video Output .....	1.0Vp-p / 75 ohms
Power Consumption .....	230mA (color), 90mA (BW)
Power Supply .....	12VDC regulated (UL & CSA listed power supply included)
Operating Temperature .....	14° F – 122° F
Housing .....	18 gauge stainless steel with lexan window
Dimensions .....	9" (W) x 7" (H) x 4 (L)
Weight .....	1.4 lbs.

Spec Rev. 1/14/14

### Optional Lenses

- CVC605CM2.2 ..... 2.2mm lens
- CVC605CM2.5 ..... 2.5mm lens
- CVC605CM2.9 ..... 2.9mm lens

### Also available with brass housing

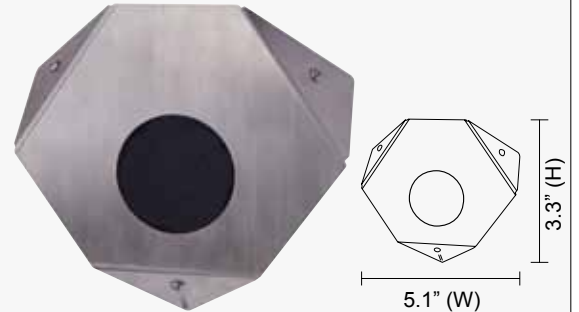
- CVC605CMB2.2 ..... 2.2mm lens
- CVC605CMB2.5 ..... 2.5mm lens
- CVC605CMB ..... 3.6mm lens

## 960H Vandal Resistant Corner Mount Color Camera

**CVC607CMT** 3.6mm lens - optional lenses available, grey housing

### Features

- 1/3" Sony Super HAD II™ CCD
- 700 TV lines of resolution
- Vandal resistant 90° corner mount camera
- Heavy duty housing is built to withstand blows from a 10 lb. sledgehammer
- Also available in brass housing
- 5 year warranty



### Specifications

Image Sensor .....	1/3" Sony Super HAD II™ CCD
Resolution .....	700 TV lines
Minimum Illumination .....	0.001 lux (sense-up on)
Effective Pixels .....	976 (H) x 494 (V)
Total Pixels .....	1020 (H) x 508 (V)
Electronic Shutter .....	1/60 sec. – 1/100,000 sec.
S/N Ratio .....	More than 52dB
Video Output .....	1.0Vp-p / 75 ohms
Power Consumption .....	230mA
Power Supply .....	12VDC, 500mA (power supply not included)
Operating Temperature .....	14° F – 122° F
Housing .....	16 gauge steel
Dimensions .....	5.1" (W) x 3.3" (H)
Weight .....	1.5 lbs.

Spec Rev. 1/16/14

### Optional Accessory



### Optional Lenses

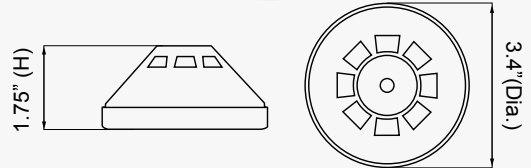
- CVC607CMT2.2 ..... 2.2mm lens
- CVC607EXCM2.5 ..... 2.5mm lens
- CVC607EXCM2.5B (brass housing) ..... 2.5mm lens

## 960H Discreet Ceiling Mounted Color Camera

**VL562SD** 3.7mm lens, color, white housing

### Features

- 1/3" Sony Super HAD II™ color CCD
- View sideways at 45° angle or straight down
- 700 TV lines of resolution
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ color CCD  
 Resolution..... 700 TV lines  
 Minimum Illumination..... 0.001 lux (sense-up on)  
 Electronic Shutter ..... Auto: 1/60 sec. – 1/100,000 sec.  
 Video Output Level ..... 1.0Vp-p / 75 ohms  
 S/N Ratio ..... More than 50dB  
 Output..... Video - BNC, Power - DC jack

Operating Temperature/  
 Humidity..... 14° F – 122° F / within 90% RH  
 Power Consumption ..... 230mA  
 Power Supply ..... 12VDC regulated  
 (UL and CSA listed power supply included)  
 Dimensions..... 3.4" (Dia.) x 1.75" (H)  
 Weight ..... 4.5 oz.

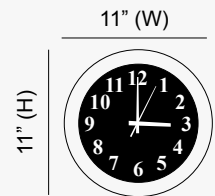
Spec Rev. 1/20/14

## 960H Color Clock Camera

**CVC585RC** 3.6mm wide angle lens

### Features

- Discreet surveillance of sensitive areas
- Good performance in a variety of conditions
- Ready to hang with nothing to build or adjust
- 700 TV lines of resolution
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" Sony Super HAD II™ color CCD  
 Resolution..... 700 TV lines  
 Minimum Illumination..... 0.001 lux (sense-up on)  
 Effective Pixels ..... 512 (H) x 492 (V)  
 Total Pixels ..... 1020 (H) x 508 (V)  
 Electronic Shutter ..... 1/60 sec. – 1/100,000 sec.  
 S/N Ratio ..... More than 52dB  
 Video Signal Output..... 1.0Vp-p / 75 ohms, BNC  
 Scanning Frequency..... 15.75kHz (H) / 60Hz (V)  
 Scanning System..... 2:1 interlace

Operating Temperature/  
 Humidity..... 14° F – 122° F / within 95% RH  
 Power Consumption ..... 230mA  
 Power Supply ..... 12VDC (power supply included),  
 AA battery for quartz clock (included)  
 Dimensions..... 1.5" (L) x 11" (W) x 11" (H)  
 Weight ..... 1.5 lbs.

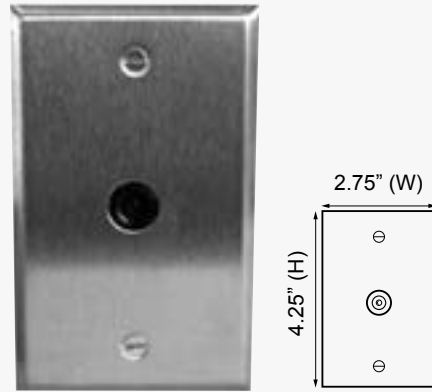
Spec Rev. 1/1414

## 960H Color or Standard BW In-Wall Camera

- CVC675** 3.6mm lens, color
- CVC75** 3.6mm lens, BW

### Features

- Fits into a single gang electrical box (included)
- Brushed stainless steel faceplate
- Lens options available
- 700 TV lines of resolution
- 5 year warranty



### Specifications

#### CVC675

Image Sensor .....	1/3" Sony Super HAD II™ color CCD
Resolution.....	700 TV lines
Minimum Illumination.....	0.001 lux (sense-up on)
Effective Pixels .....	976 (H) x 494 (V)
Scanning System.....	2:1 interlace
Angle of View.....	Horizontal: 72° / Vertical: 53°
Outputs / Connection.....	Video - RCA, Power - DC jack
Scanning Frequency.....	15.75kHz (H) / 60Hz (V)
Electronic Shutter Speed.....	Auto: 1/60 sec. – 1/50,000 sec.
Synchronization.....	Internal
Video Output Level .....	1.0Vp-p / 75 ohms
Video S/N Ratio .....	Greater than 52dB
Housing .....	Stainless steel
Operating Temperature/ Humidity.....	14° F – 122° F / within 90% RH
Power Consumption .....	110mA
Power Supply .....	12VDC regulated (UL & CSA listed power supply included)
Dimensions.....	2.75" (W) x 4.25" (H) x 2.75" (L)
Weight .....	3.45 oz.

#### CVC75

Image Sensor .....	1/3" BW CCD
Resolution.....	420 TV lines
Minimum Illumination.....	0.02 lux
Effective Pixels .....	512 (H) x 492 (V)
Scanning System.....	2:1 interlace
Angle of View.....	Horizontal: 72° / Vertical: 53°
Outputs / Connection.....	Video - BNC, Power - DC jack
Scanning Frequency.....	15.75kHz (H) / 60Hz (V)
Electronic Shutter Speed.....	Auto: 1/60 sec. – 1/50,000 sec.
Synchronization.....	Internal
Video Output Level .....	1.0Vp-p / 75 ohms
Video S/N Ratio .....	More than 48dB
Housing .....	Stainless steel
Operating Temperature/ Humidity.....	14° F – 122° F / within 90% RH
Power Consumption .....	130mA
Power Supply .....	12VDC regulated (UL & CSA listed power supply included)
Dimensions.....	2.75" (W) x 4.25" (H) x 2.75" (L)
Weight .....	3.45 oz.

### Optional Lenses

- CVC6752.2.....2.2mm lens
- CVC6752.5.....2.5mm lens
- CVC6752.9.....2.9mm lens
- CVC6756.....6mm lens
- CVC6758.....8mm lens
- CVC67512.....12mm lens
- CVC67516.....16mm lens

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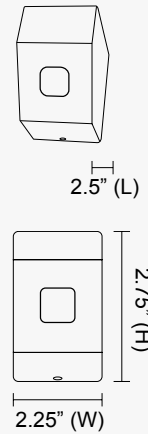
## 960H Color or Standard BW Angle Mount Camera

**CVC695AM** 3.6mm wide angle lens, horizontal 72° / vertical 53°, color

**CVC95AM** 3.6mm wide angle lens, horizontal 72° / vertical 53°, BW

### Features

- Weather/tamper resistant cover
- Features a 3.6mm wide angle lens that views at a downward angle of 38°
- Includes tamper resistant screw for vandal resistant mounting
- 700 TV lines of resolution
- 5 year warranty



### Specifications

	<b>CVC695AM</b>	<b>CVC95AM</b>
Image Sensor	1/3" Sony Super HAD II™ color CCD	1/3" BW CCD
Resolution	700 TV lines	420 TV lines
Minimum Illumination	0.001 lux (sense-up)	0.02 lux
Effective Pixels	976 (H) x 494 (V)	512 (H) x 492 (V)
Electronic Shutter Speed	Auto: 1/60 sec. – 1/100,000 sec.	Auto: 1/60 sec. – 1/100,000 sec.
Video Output	1.0Vp-p / 75 ohms	1.0Vp-p / 75 ohms
S/N Ratio	More than 52dB	More than 50dB
Scanning Frequency	15.75kHz (H) / 60Hz (V)	15.75kHz (H) / 60Hz (V)
Output	Video - BNC, Power - DC jack	Video - BNC, Power - DC jack
Operating Temperature/ Humidity	14° F – 122° F / within 95% RH	14° F – 122° F / within 95% RH
Power Consumption	210mA	150mA
Power Supply	12VDC (UL and CSA listed power supply included)	12VDC (UL and CSA listed power supply included)
Housing	18 gauge stainless steel	18 gauge stainless steel
Dimensions	2.25" (W) x 2.75" (H) x 2.5" (L)	2.25" (W) x 2.75" (H) x 2.5" (L)
Weight	6.8 oz.	6.8 oz.

### Optional Lenses

CVC95AM2.5.....2.5mm lens	CVC695AM2.5...2.5mm lens
CVC95AM6.....6mm lens	CVC695AM2.9...2.9mm lens
CVC95AM8.....8mm lens	CVC695AM6.....6mm lens
CVC95AM12.....12mm lens	CVC695AM8.....8mm lens
	CVC695AM12....12mm lens

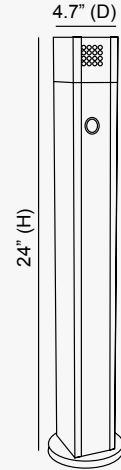
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## Color Facial Identification IR Tower Camera with Dual Voltage Operation

**TC25VF** 2.6-6mm auto iris varifocal lens, black housing

### Features

- View a person's face by placing an unobtrusive camera at eye level
- The camera can be tilted within the housing to achieve all required angles
- The tower is horizontally adjustable and locks into position using set screws
- Operates on 24VAC power, which allows for line lock and "drift free" color pictures
- Removable top mounted IR LEDs illuminate a person's face and balances backlit scenes
- WDR (Wide Dynamic Range) technology minimizes back-lighting problems
- The cable can be routed through the bottom of the base, or the rear, for a more concealed and secure installation
- Customize the look of your tower with a paint color or "slide-in" advertising panels
- 5 year warranty



### Specifications

Image Sensor	1/3" color Sony double speed CCD sensor
Resolution	480 TV lines
Minimum Illumination	0 lux within a 10 ft. range, 0.03 lux beyond 10 ft.
Number of IR LEDs	16
Day/Night	Mechanical IR cut filter
Scanning System	2:1 interlaced
Line Locked	Adjustable V – Phase
S/N Ratio	More than 50dB
Gamma	0.45 typ.
Video Output	1.0Vp-p / 75 ohms
Electronic Shutter	1/60 sec. – 1/100,000 sec.
Power Consumption	12VDC, 230mA / 24VAC, 5.5W
Power Supply	12VDC / 24VAC auto sensing dual voltage (power supply not included)
Operating Temperature	14° F – 122° F
Dimensions	24" (H) x 4.7" (D)
Weight	4.5 lbs.

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

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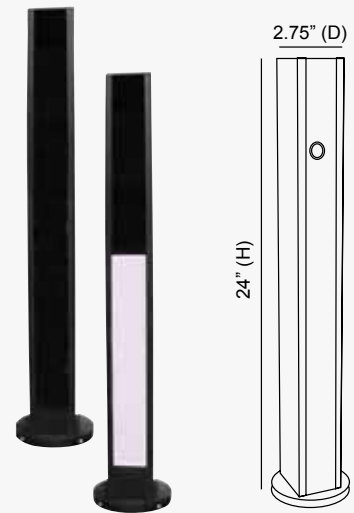


## Color Facial Identification Camera with Dual Voltage Operation

**TC23** 2.9mm lens - optional lens available, black housing

### Features

- View a person's face by placing an unobtrusive camera at eye level
- The camera can be tilted within the housing to achieve all required angles
- Stationary tower
- Operates on 24VAC power which allows for line lock and "drift free" color pictures
- Fixed focal lens for less demanding application
- The cable can be routed through the bottom of the base, or the rear, for a more concealed and secure installation
- Customize the look of your tower with a paint color or "slide-in" advertising panels
- 5 year warranty



### Specifications

Image Sensor ..... 1/3" color Sony Super HAD™ CCD sensor  
 Resolution..... 480 TV lines  
 Minimum Illumination..... 0.03 lux low light sensitivity  
 Electronic Shutter ..... 1/60 sec. – 1/100,000 sec.  
 Scanning System..... 2:1 interlaced  
 Line Locked ..... Adjustable V – Phase  
 S/N Ratio ..... More than 50dB  
 Gamma..... 0.45 typ.  
 Video Output..... 1Vp-p / 75 ohms  
 Power Consumption ..... 200mA  
 Power Supply ..... 12VDC / 24VAC dual voltage operation  
 (power supply not included)  
 Operating Temperature... 14° F – 122° F  
 Dimensions..... 24" (H) x 2.75" (D)  
 Weight ..... 5 lbs.

### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply

### Optional Lenses

TC23.4..... 4mm  
 TC23.6..... 6mm  
 TC2312..... 12mm

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## Color Wall Mount Camera

**CVC691AMW** 3.6mm wide angle lens, white housing



### Features

- Wall mount color camera
- Lens options available
- 5 year warranty

### Specifications

Image Sensor ..... 1/4" CCD image sensor  
 Resolution..... 420 lines  
 Electronic Shutter ..... Auto: 1/60 sec. -1/100,000 sec.  
 Minimum Illumination..... 1.0 lux  
 Output Level ..... 1.0Vp-p / 75 Ohms  
 S/N Ratio ..... More than 50dB  
 Scanning Frequency..... 15.7kHz (H) / 60Hz (V)  
 Output..... RCA female, includes BNC adaptor  
 Operating Temperature/  
 Humidity..... 14° F – 122° F / within 95% RH  
 Power Consumption ..... 110mA  
 Power Supply ..... 12VDC (UL and CSA listed power supply included)  
 Dimensions..... 2.25" (W) x 2.75" (H) x 2.5" (L)  
 Weight ..... 7 oz.

### Optional Lenses

CVC691AMW2.2 ..2.2mm lens	CVC691AMW12 ...12mm lens
CVC691AMW2.9 ..2.9mm lens	CVC691AMW16 ...16mm lens
CVC691AMW8 .....8mm lens	

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 Spec Rev. 2/18/13

## Color CCTV Camera in Operating PIR Housing

**VL565PIR** 3.6mm pinhole lens, non-operating PIR, white housing

**VL572PIR** 3.6mm pinhole lens, operating PIR, white housing




















### Features

- Camera encased in non-working or working PIR
- Fully adjustable wall/ceiling mount included
- 5 year warranty

### Specifications

Image Sensor ..... 1/4" color CCD image sensor  
 Resolution..... 420 lines  
 Minimum Illumination..... 1.0 lux  
 Electronic Shutter ..... Auto: 1/60 sec. - 1/100,000 sec.  
 S/N Ratio ..... More than 46dB  
 Video Output..... 1.0Vp-p / 75 Ohms  
 Power Consumption ..... 120mA (non-operating PIR), 130mA (operating PIR)  
 Power Supply ..... 12VDC (UL & CSA listed power supply included)  
 Operating Temperature..... 14° F – 122° F  
 Housing ..... White ABS plastic with mount  
 Dimensions..... 2" (L) x 2.75" (W) x 4.75" (H)  
 Weight ..... 9 oz.

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 Spec Rev. 1/16/12

Model	Type	Image	Relevant Models
59PLATE	Adaptor Plate (use with CVCJBD)		(HT5935H, HT5940H, INTKD1, IRKD1) with CVCJBD
60PLATE	Adaptor Plate (use with CVCJBD)		(HT648H, HT649H, HT670H, WDRD10H, WDRD11H) with CVCJBD
APT28DW	Adaptor Plate for COR32DW or POL28DW when using PEN32DW		CPTZ32D5W, COR32DW, POL28DW, PEN32DW
APT29DW	Adaptor Plate for COR32DW or POL28DW when using WMA29DW		COR32DW, CPTZ28D5W, CPTZ29D5W, POL28DW, WMA29DW
APT32DW	Adaptor Plate for COR32DW or POL28DW		COR32DW, CPTZ28D5W, CPTZ29D5W, POL28DW
CEI32DW	Ceiling Mount		CPTZ32D5W
CLGMT37X	Ceiling Mount		HTSD37X
CM00TB,W	Ceiling Tile Mount		CVC61HRB, CVC61HRW, CVC62HRB, CVC62HRW, CVC61ILTB, CVC61ILTW, CVC62ILTB, CVC62ILTW, CILT00T6B, CILT00T6W, CVC71HRB, CVC71HRW
COR32DW	Corner Mount Adaptor		CPTZ28D5W, CPTZ29D5W, CPTZ32D5W
CORMT37X	Corner Mount		HTSD37X
CPSD10X	Corner Pole Mount		HTSD12X
CVCJBB,W	Bullet Junction Box		CVC5100BPVF, CVC5815DNV, CVC5915DNV, HTB10XH, HTINTB8, HTINTB8H, HTINTB8G, HTINTB9, HTINTB10, HTINTB10G, HTB11FFi, HT5100BPVFG, HT5200BPVFG, HT7040H, INTCM, INTKB1, IRKB1, WDRB10H, WDRB11H
CVCJBD,W	Small Round Dome Junction Box		(HT5935H, HT5940H, with 59PLATE) HTD10XH, HT648H, HT649H, HT670H, HT671H, HT7246iHR, HT7247iHR, HT7246H, HT7248FFi, HT7250iHR, (INTKD1, IRKD1 with 59PLATE), (INTKT1, IRKT1 with 60PLATE) INTPM, INTWM, WDRD11H
CVCWM,W	Indoor Dome Wall Mount		CVC5825DNV
CVCWMTIND	Indoor Dome Wall Mount		CVC6146SCS, CVC6146SCSFF, CVC6245iHR, CVC6246iHR, CVC6246H, WDR21H
DFM	Tile Ceiling Flush Mount		CVC6146SCS, CVC6146SCSFF, CVC6246iHR, CVC6246H, HT648H, HT649H, HT670H, HT671H, HT7246iHR, HT7246H, HT7247iHR, HT7248FFi, HT7250iHR, WDRD11H
DFM29DW	In Ceiling Mount		CPTZ29D5W

Model	Type	Image	Relevant Models
INTCM,W	Corner / Pole Mount		CVC5100BPVF, CVC5815DENV, CVC5915DENV, CVC5715DENV, CVCJBB, HTB10XH, HTB11FFi, HTINTB8, HTINTB8H, HTINTB9, HTINTB10, HTINTB8G, HTINTB10G, HT5100BPVFG, HT5200BPVFG, HT7048IRVF, HT7049IRVF, INTWM, INTKB1, IRKB1, VL5700BPVF, VL7038IRVF, VL7039IRVF, WDRB11H
INTJBS,W	Square Junction Box		CVC5100BPVF, CVC5815DENV, CVC5915DENV, CVCJBB, HTB10XH, HTB11FFi, HTINTB8, HTINTB9, HTINTB10, HTINTB8G, HTINTB8H, HTINTB10G, HT7048IRVF, HT7049IRVF, HT5100BPVFG, HT5200BPVFG, INTKB1, IRKB1, VL7038IRVF, VL7039IRVF, WDRB11H
INTPM,W	Pendant Mount		CVC5300DPVF, CVC5845DENV, CVC5945DENV, CVC5735DENV, CVC5835DENV, CVC5935DENV, CVCJBD, HT671H, HT7246iHR, HT7246H, HT7247iHR, HT7250iHR, HT7248FFi, HTD8FFi, HTINTD8, HTINTD8H, HTINTD9, HTINTD10, INTCM (with INTWM only), JB03TG, (HT648H, HT649H, HT670H, WDRD10H, WDRD11H, with 59PLATE & CVCJBD only, 60PLATE with CVCJBD only)
INTWM,W	Dome Wall Mount		
JB02DG,W	Dome Junction Box		CVC5835DENV, CVC5835DENVW, CVC5935DENV, CVC5935DENVW
JB03TG,W	Large Round Junction Box		CVC5300DPVF, CVC5845DENV, CVC5945DENV, HTD8FFi, HTINTD8, HTINTD8H, HTINTD9, HTINTD10, INTPM, INTWM
PEN29DW	Pendant Arm		CPTZ28D5W, CPTZ29D5W
PEN32DW	Pendant Arm		CPTZ32D5W
PMA29DW	Pole Mount Adaptor		CPTZ28D5W, CPTZ29D5W
POL28DW	Pole Mount		CPTZ28D5W, CPTZ29D5W, CPTZ32D5W
POLMT37X	Pole Mount		HTSD37X
WAC29DW	Wall / Ceiling Adaptor		CPTZ29D5W
WMA29DW	Wall Mount		CPTZ28D5W, CPTZ29D5W
WMSD10X	Wall Mount		HTSD12X

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## Indoor/Outdoor 60° Infrared LED Illuminator

**IR60** IR illuminator

### Features

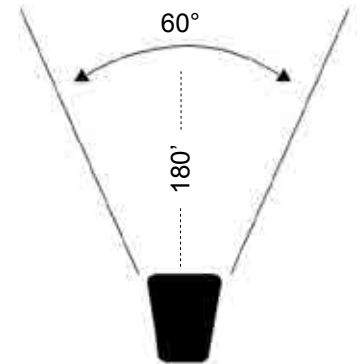
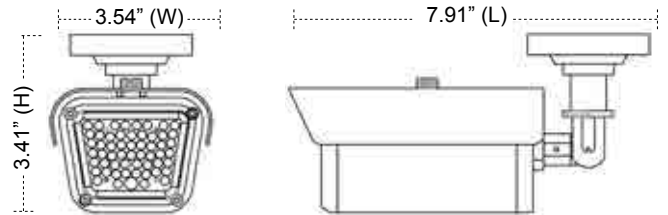
- 60° field of illumination
- IR range up to 180 ft. in near total darkness and depending on scene reflection
- 55 powerful infrared LEDs
- Compatible with any BW or IR sensitive color CCD camera
- CDS sensor activates IR LEDs only as needed
- Low power consumption
- Weather resistant operation
- IP66 compliant
- 1 year warranty

**IR**



### Specifications

Field of Illumination.....	60°
Number of IR LEDs .....	55
IR Range .....	180' (depending on scene reflection)
LED Wavelength.....	850nm
Lux Level .....	10 lux
Operating Temperature.....	-22° F – 140° F
Storage Temperature.....	-22° F – 140° F
Power Supply .....	12VDC, 410mA / 24VAC, 320mA (power supply not included)
Dimensions.....	3.54" (W) x 3.41" (H) x 7.91" (L)
Weight .....	26.5 oz.
Housing .....	Aluminum



IR Illuminator

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Spec Rev. 7/16/13



### Optional Accessories



## Indoor/Outdoor 80° Infrared LED Illuminator

**IR80** IR illuminator

### Features

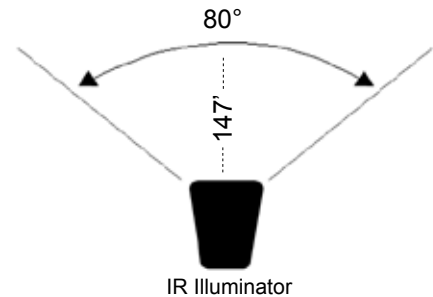
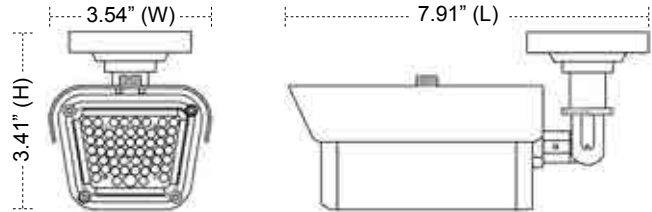
- 80° field of illumination
- IR range up to 147 ft. in near total darkness and depending on scene reflection
- 55 powerful infrared LEDs
- Compatible with any BW or IR sensitive color CCD camera
- CDS sensor activates IR LEDs only as needed
- Low power consumption
- Weather resistant operation
- IP66 compliant
- 1 year warranty

**IR**



### Specifications

Field of Illumination.....	80°
Number of IR LEDs .....	55
IR Range .....	147' (depending on scene reflection)
LED Wavelength.....	850nm
Lux Level .....	10 lux
Operating Temperature.....	-22° F – 140° F
Storage Temperature.....	-22° F – 140° F
Power Supply .....	12VDC, 410mA / 24VAC, 320mA (power supply not included)
Dimensions.....	3.54" (W) x 3.41" (H) x 7.91" (L)
Weight .....	26.5 oz.
Housing .....	Aluminum



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### Optional Accessories



**PSW4**  
24VAC  
Power Supply



**PSW5**  
12VDC  
Power Supply



## HD 1080p LED Monitor

**M19LED** 19" LED monitor

**M215LED** 21.5" LED monitor

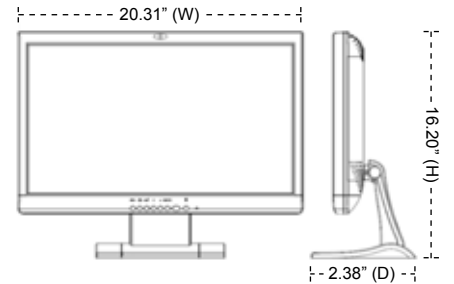
### Features

- Flat-panel LED - backlit LCD
- HDMI, VGA (D-Sub 15 pins) and BNC video inputs
- 1920(H) x 1080(V) HD 1080p resolution
- Built-in speakers
- Convenient front controls for screen programming
- Input signal detection provides easy connection
- 290cd/m2 brightness
- 16:9 display ratio
- 500:1 contrast ratio
- Displays up to 16.7 million colors
- Regulated 12VDC 5.0 amp (UL & CSA listed power supply included)
- VESA compatible
- 1 year warranty

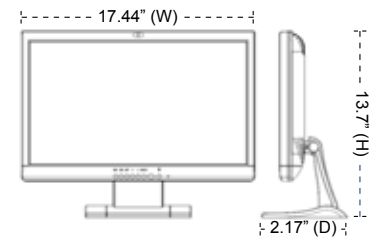


ECO-FRIENDLY - LOW ENERGY CONSUMPTION  
GREENER THAN LCDs

Specifications	M19LED	M215LED
Composite Output	BNC 1	
Composite Input	BNC 1	
Single Connector	VGA x 1, RCA x 2, PC Audio x 1, HDMI x 1	
Speaker	1W+1W	
Display Mode	VGA / BNC / PC / HDMI	
AC Power	AC 100 - 240V 50/60Hz	
Operating Temperature	14° F – 122° F	
Storage Temperature	-4° F – 140° F	
Power Consumption	20W	25W
OSD Control	HDMI, VGA, Audio, PIP, System	
OSD Languages	English	
Auto Adjustment	Yes	
De-interlace	Yes	
Wall Mount	Optional	
Accessories	Remote, Adaptor, Power Cord, Manual, VGA cable, PC Audio Cable	
Safety	FCC, CE, RoHS	
Tilt	10° – 15°	
Humidity	20% – 85%	
Monitor Scan	Microprocessor controlled	
Pixel Pitch	0.24825 (H) x 0.24825 (V)	
Pixel Format	1920 x 1080	
Response Time	5ms	
Color Depth	16.7 million colors	
Viewing Angle	Left 85° / Right 85° / Up 80° / Down 80° CR > 10	
Display Area	16.13" (H) x 9.07" (V)	18.41" (H) x 10.56" (W)
Dimensions	17.44" (W) x 13.70" (H) x 2.17" (D)	20.31" (W) x 16.20" (H) x 2.38" (D)
Weight	6.17 lbs.	7.94 lbs.



**M215LED**



**M19LED**

### Optional Accessory



**LCDVLW2**  
10" Extension Arm



## Color LED Flat-Panel Monitor

**M17VLED** 17" LED monitor

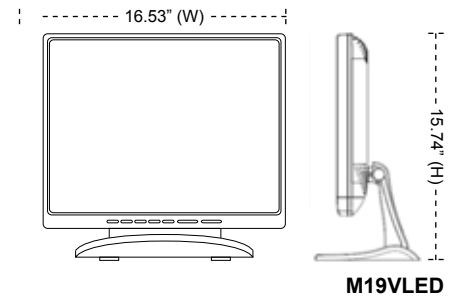
**M19VLED** 19" LED monitor

### Features

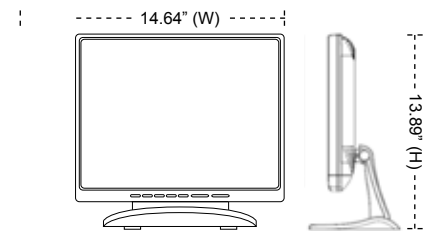
- Flat-panel LED - backlit LCD
- VGA (D-Sub 15 pins) and BNC video inputs
- 1280 x 1024 max. resolution
- Built-in speakers
- Convenient front controls for screen programming
- Input signal detection provides easy connection
- 290cd/m2 brightness
- 4:3 display ratio
- 800:1 contrast ratio
- Displays up to 16.7 million colors
- Regulated 12VDC 5.0 amp (UL & CSA listed power supply included)
- VESA compatible
- 1 year warranty



Specifications	M17VLED	M19VLED
Composite Output	BNC 1	
Composite Input	BNC 1	
Single Connector	VGA x 1, RCA x 2, PC Audio x 1	
Speaker	1W+1W	
Display Mode	VGA / BNC / PC / S-Video	
AC Power	AC 100 - 240V 50/60Hz	
Operating Temperature	14° F – 122° F	
Storage Temperature	-4° F – 140° F	
Power Consumption	25W	
OSD Control	VGA, Audio, PIP, System	
OSD Languages	English	
Auto Adjustment	Yes	
De-interlace	Yes	
Wall Mount	Optional	
Accessories	Adaptor, Power Cord, Manual, VGA cable, PC Audio Cable	
Safety	FCC, CE, RoHS	
Tilt	10° – 15°	
Humidity	20% – 85%	
Monitor Scan	Microprocessor controlled	
Pixel Pitch	0.264mm	0.294mm
Pixel Format	1280 x 1024	
Response Time	5ms	
Color Depth	16.7 million colors	
Viewing Angle	Left 80° / Right 80° / Up 80° / Down 80°	Left 85° / Right 85° / Up 85° / Down 85°
Display Area	13.31" (H) x 10.64" (V)	14.82" (H) x 11.85" (W)
Dimensions	14.64" (W) x 13.89" (H)	16.53" (W) x 15.74" (H)
Weight	7 lbs.	8 lbs.



M19VLED



M17VLED

### Optional Accessory



**LCDVLW2**  
10" Extension Arm

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## 10" High Resolution TFT Color LCD VGA Monitor with Remote Control

### VM10LCD

#### Features

- Professional TFT LCD for surveillance with multiple connections
- Picture-In-Picture feature that allows multi-picture display (in VGA mode)
- High brightness level and contrast ratio with super wide viewing angle
- Built-in 3D comb filter and 3D de-interlace for display picture performance
- Fast response time and refresh rate
- Multi-language support
- Input signal detection provides easy connection
- VESA compatible
- 1 year warranty



#### Specifications

Panel Size .....	10.4"
Aspect Ratio .....	4:3
Resolution/Scan .....	640 x 480
Brightness.....	350 cd/m2
Contract Ratio.....	300:1
Viewing Angle (H/V) .....	Left 70° / Right 70° / Up 40° / Down70°
Response Time.....	6ms (typ.)
Sync. Format .....	NTSC
Frequency (Horizontal) .....	PC: 31.5K
Frequency (Vertical) .....	PC: 60Hz - 75Hz, Video: 50 / 60Hz
Video Interface .....	D-SUB VGA In x 1, Video In x 2 (BNC), Video Out x 2 (BNC), S-Video In x 1
Audio Interface .....	In x 2, Audio Out x 2, PC-Audio In x 1
Input Power .....	DC In x 1
Termination.....	75 Ohm (auto termination)
Built-In Speakers .....	Yes (2pcs)
Front Panel Button.....	Power, Source, Up, Down, Menu, Auto
OSD Language.....	Multi-language
VESA Mounting .....	VESA 75mm x 75mm
Power Supply .....	12VDC (power supply included)
Power Consumption .....	17.2W max.
Operating Temperature/	
Humidity.....	14° F – 122° F / RH 20% – 80%
Dimensions.....	10.3" (W) x 8.8" (H) x 2.5" (D)
Weight (net weight / gross weight) .....	4 lbs. / 6.4 lbs.
Included Accessories.....	Remote control

#### Optional Accessory



**LCDULW2**  
10" Extension Arm

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Spec Rev. 2/25/13

## 5" High Resolution TFT Color LCD Monitor with Remote Control

### VM5LCD

#### Features

Our 5 inch high resolution TFT flat screen LCD monitor offers convenient on-screen display controls located on the front panel; including controls for brightness, contrast, hue, color, vertical/horizontal positioning and volume. It also features audio with front mounted speakers and input signal detection provides for easy connection. 12VDC power supply and A/V cable are included.

- 1 year warranty



#### Specifications

Screen Size .....	5"	Audio Input .....	2 RCA
Aspect Ratio .....	4:3	Power Supply .....	12VDC (power supply included)
Resolution/Scan .....	640 x 480	Dimensions.....	6.5" (W) x 4.5 (H)
Brightness.....	350 cd/m2	Weight .....	1 lb.
Contrast Ratio.....	250:1	Base .....	2"
Inputs.....	1 S video, 2 RCA		

Spec Rev. 10/10/11

## Portable CCTV Installation & Testing Monitor

### VMS2

#### Features

- LCD display easily allows for checking the video signal of the CCTV camera being tested
- An audio jack tests the audio signal
- Built-in rechargeable battery has a life of 4 hours
- An LED light displays low battery level
- Visor blocks out sunglare on the LCD display
- The heavy duty casing, durable handle and shoulder belt (included) make this unit conveniently portable
- 1 year warranty



#### Specifications

Resolution.....	480 x 234	Audio Output.....	0.5W max
Brightness .....	350cd	Charging Time .....	8 hours charging time, 4 hours operating time
Input Video Signal .....	1.0Vp-p (sync., negative) termination 75 Ohm	Video/Audio Connector.....	RCA W/BNC plug adapter
LCD Technology .....	TFT active matrix	Power Consumption .....	4.5W
Display Size .....	4"	Rechargeable Battery .....	12V.1.1AH
Contrast Ration.....	250:1	Power Supply .....	12VDC (power supply included)
View Angle.....	L/R ±45° U/D:10°/30°	Dimensions .....	6" (W) x 5.1" (H) x 3" (D)
Audio Input .....	30 mVp-p – 100 mVp-p	Weight .....	4.3 lbs.
		Extra battery available.....	BVMS2

Spec Rev. 10/7/11

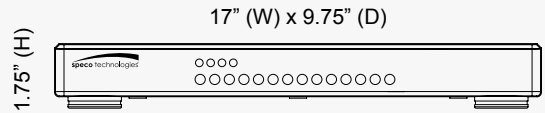


## 4, 9 or 16 Channel Color Duplex Multiplexer

- RMX4CD** View up to 4 image sources on one screen while simultaneously recording full screen images on a DVR or VCR
- RMX9CD** View up to 9 image sources on one screen while simultaneously recording full screen images on a DVR or VCR
- RMX16CD** View up to 16 image sources on one screen while simultaneously recording full screen images on a DVR or VCR

### Features

- Full-screen and multi-screen viewing options are available during VCR playback
- Uniquely programmable for recording between 2 - 999 hours
- Built-in time/date generator
- 8 Character camera title function
- Video loss alert and alarm detection are structured
- Compatible with all standard time lapse VCRs and most DVRs



### Specifications

Camera Inputs.....	RMX4 - BNC, 4, RMX9 - BNC, 9, RMX16 - BNC, 16, composite video 1.0Vp-p 75 ohms
Adjustable Program Recording.....	2-999 hours-accepts trigger pulses from VCRs & DVRs
Alarm Functions.....	Video loss alert and alarm detection with up to 100 record
Alarm Inputs.....	RMX4 - 4 (TTL level), RMX9 - 9 (TTL level), RMX16 - 16 (TTL level)
Alarm Output.....	1, Normally open or closed (relay output) contacts with shared common
Compatibility.....	Compatible with all standard and time lapse VCRs and most DVRs
Looping Camera Outputs.....	RMX4 -BNC, 4, RMX9 - BNC, 9, RMX16 - BNC 16, composite video 1.0Vp-p 75 ohms
Maximum Image Sources.....	RMX4 - 4 on one screen, RMX9 - 9 on one screen, RMX16 - 16 on one screen
Monitor Output.....	BNC, 3, composite video 1.0Vp-p 75 ohms
Other Features.....	Built-in time and date generator with 8 character camera title function
Playback Input.....	BNC, 1, composite video 1.0Vp-p 75 ohms
Power Consumption.....	Maximum 9 watts
Power Source.....	12VDC, 1.2 amp included
Recovery Output.....	1 (TTL active low)
RS-232 Interface.....	D-SUB 25 pin female connector
Switch Input.....	BNC, 1 (TTL level)
VCR Output.....	BNC, 1, composite video 1.0Vp-p 75 ohms
Viewing Options.....	Full screen, multi-screen or sequential switching with adjustable dwell time
Dimensions.....	1.75" (H) x 17" (W) x 9.75" (D)
Weight.....	5 lbs. 8 oz. net

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## Standard HDMI Cables

**HDVL3** 3'    **HDVL6** 6'    **HDVL10** 10'    **HDVL15** 15'

These cables are perfect for most basic HDMI needs such as connecting a monitor to a DVR.



## Class 2 HDMI Cables

**HDCL6** 6'    **HDCL10** 10'    **HDCL15** 15'    **HDCL25** 25'    **HDCL50** 50'

These cables are certified Class 2 (CL2), meaning they are safe for in-wall use.



## Flat HDMI Cables

**HDFL3** 3'    **HDFL10** 10'    **HDFL15** 15'

These flat-designed HDMI cables are great for when you need to squeeze a cable through a cabinet door or other tight spot? have a non-standard setup or just want a unique looking cable.



## Swivel HDMI Cables

**HDSW3** 3'    **HDSW10** 10'    **HDSW15** 15'

Swivel cables are ideal if you are trying to connect devices near the maximum length of your cable. These cables come with a connector capable of swiveling 360 degrees around and 180 degrees up and down.



## HDMI to HDMI Adaptors

### HDF2F3SCP

Female to female HDMI 360 swivel adaptor

### HDF2FCP

Female to female HDMI adaptor

### HDM2F3SCP

Male to female HDMI 360 swivel adaptor

### HDM2FSW.5

6" male to female HDMI swivel adaptor



## Features

These adaptors are used to couple HDMI cables together or to protect your HDMI inputs by adding a flexible connection.

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## Component Video and Audio to HDMI Converter

### COMHDMI

#### Features

- Converts component video (YPbPr) and stereo or digital (SPDIF) audio to HDMI display
- Built-in local component video loop output with stereo/digital audio
- Encodes analog stereo audio or digital audio onto the video signal for HDMI audio and video



rear of unit

## VGA and Audio to HDMI Converter

### VGAHDMI

#### Features

- Converts VGA and stereo or digital (SPDIF) audio to HDMI display
- Built-in local VGA loop output with stereo/digital audio
- Encodes analog stereo audio or digital audio onto the video signal for HDMI audio and video



rear of unit

## 2-Cable HDMI Extender

### HDXTNDR

#### Features

- Extends an HDMI signal up to 100' using two Cat5e or Cat6 cables
- Supports resolutions up to and including 1080p or 1920x1080 on pass through



rear of unit

Spec Rev. 2/18/14

## 4 to 2 HDMI Matrix

### HD4MAT

#### Features

- Supports 3D HDMI signals
- Supports resolutions up to and including 1080p
- Supports DTS/Dolby/DTS-HD/Dolby True HD/LPCM7.1/AC3
- Supports HDCP 1.2
- Supports simultaneous digital audio output: Stereo, Toslink and Coax
- Includes IR remote control



rear of unit

Spec Rev. 2/18/14

## HDMI Splitter

**HD2SPL** HDMI 1 to 2 splitter

**HD4SPL** HDMI 1 to 4 splitter

#### Features

- Takes a single HDMI source and divides it into 2 (HDMI2SPL) or 4 (HDMI4SPL) monitors or televisions
- Supports 3D HDMI signals
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA, and 480i to 1080p
- Supports DTS/Dolby/DTS-HD/Dolby True HD/LPCM7.1/AC3
- Supports HDCP 1.2



rear of unit

Spec Rev. 2/18/14

## 5 to 1 HDMI Switch

**HD5SWT** Switches are used when you have multiple HDMI sources, such as DVRs, and only have one monitor to view them on.

#### Features

- Allows one HDMI display to rotate between 5 HDMI devices
- Supports 3D HDMI signals
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA, and 480i to 1080p
- Supports DTS/Dolby/DTS-HD/Dolby True HD/LPCM7.1/AC3
- Includes IR remote control



rear of unit

Spec Rev. 2/18/14

## 5-Port 10/100 Ethernet Switch with 4 PoE Ports POE4SW

- Network Protocol and Standards:
  - IEEE 802.3 10BASE-T ethernet
  - IEEE 802.3u 100BASE-TX fast ethernet
  - IEEE 802.3x full duplex flow control
  - IEEE 802.3af power over ethernet
- Network Cables:
  - 10BASE-T: 2-pair UTP Cat3, 4, 5 up to 328'
  - 100BASE-TX: 2-pair UTP Cat5, 5e up to 328'
- Interface Ports:
  - 5 10/100Mbps auto MDIX RJ-45 (4 PoE ports)
- PoE power on RJ-45: Power (-): pin 1 & pin 2  
Power (+): pin 3 & pin 6
- 110VAC to 240VAC (power adaptor included)

Spec Rev. 11/4/13



## PoE/LAN Repeater IPPOERPT

- Extends both power and data 330' per repeater
- Purchase a second repeater for a total run of 1000'
- No external power required
- Compatible with the 802.3af standard
- Supports gigabit network speeds
- Built-in LED status indicator
- Plug and play for easy installation



## PoE Injectors

- IPPOEINJ1295** 12.95W
- IPPOEINJ25** 25W

- Supports 10/100/1000 BASE-T transmission rate
- Power input LED indicators
- Functional to 325' (100M)
- Power cord included

### IPPOEINJ1295

- 802.3af injector (12.95W)
- Provides DC48V power over RJ45 Ethernet cable to device with Ethernet port
- Pair with optional IPPOESPL1295 splitter

### IPPOEINJ25

- 802.3at injector (25W)
- Provides DC56V power over RJ45 Ethernet cable to device with Ethernet port
- Pair with optional IPPOESPL25 splitter



## PoE Splitters

- IPPOESPL1295** 12.95W
- IPPOESPL25** 25W

- Supports 10/100/1000 BASE-T transmission rate
- Power input LED indicators
- Functional to 325' (100M)

### IPPOESPL1295

- 802.3af splitter (12.95W)
- Splits the DC48V power over RJ45 Ethernet cable into 5V (1.8A) or 12V (1A) power
- Pair with optional IPPOEINJ1295 injector

### IPPOESPL25

- 802.3at splitter (25W)
- Splits the DC56V power over RJ45 Ethernet cable into 5V (3.6A) or 12V (1.8A) power
- Pair with optional IPPOEINJ25 injector





## Audio Cat5 Extender UTPAUDIO

### Features

- Gold-plated RCA female to terminal connection
- High performance to prevent or eliminate ground loop issues
- No Power Required
- Sold and used in pairs to send an audio signal up to 1 mile, via Cat5 UTP cable



## Stereo/Mini-Stereo Audio Cat5 Extender STRXTNDR

### Features

- Dual gold-plated RCA female to RJ45 connection, or 3.5mm mini "headphone" jack (selectable via switch) to RJ45
- High performance to prevent or eliminate ground loop issues
- No power required
- Sold and used in pairs to send an audio signal up to 2000', via Cat5 UTP cable



## Composite Video & Audio Cat5 Extender COMXTNDR

### Features

- Three RCA female (Yellow=Video, Red & White=Audio) to RJ45 Connection
- No power required
- Sold and used in pairs to send a video and audio signal up to 1000', via Cat5 UTP cable
- Two-way audio transmission and one-way video transmission



## 4 Input/2 Output Component Video Matrix Switcher w/ Stereo/Digital Audio COMVMSW42

### Features

- Connect up to 4 A/V sources to 2 displays
- Each display can view any input independently
- Built-in auto-scan switching input function to automatically select the next active input signal
- Built-in setup memory
- Switch sources between displays via easy-to-use front panel or included remote control
- 5VDC power (included)



## IR Repeater Kit IRRPTKIT

### Features

- Kit Includes:
  - 1x IR hub
  - 1x 10' cable with dual-sensor IR emitter
  - 1x 10' cable with IR transmitter
  - 1x 12VDC, 200mA power supply
- IR hub has one transmitter input, and two emitter outputs



## IR Emitter AIE

### Features

- 12' cable with single-sensor IR emitter
- For transmitting IR commands to source units
- For use with IRRPTKIT or other devices that contain IR pass-through capability and have 3.5mm connections



## Line Level Microphone CAMMIC

### Features

- High-sensitivity condenser microphone with 1.5' power/audio cables
- Line level output
- Omni-directional
- 12VDC operation (power supply not included)



## RF Modulator

### RFM1A

#### Features

- Converts audio and video signals from composite CCTV cameras, computers, portable VCRs, etc. into a VHF TV signal to view on any regular older-model TV set utilizing the antenna input
- Converts a composite video signal to an NTSC RF signal
- Includes selector switch to broadcast on channel 3 or 4



## RS232 to RS485 Converter

### RS232485CPR

#### Features

- Converts RS232 signals into RS485
- Up to 3900' range
- Passive operation – no power required
- Two wire, differential signals, half duplex
- Up to 32 units can be connected together in a RS485 multidrop operation
- Sold in pairs



## VGA to BNC Converter

### VGABNC

#### Features

- Connects VGA output to existing TV or CRT monitor
- On-screen display
- Simple and quick to install
- VGA output port for loop-through
- Image controls:
  - Horizontal and vertical size
  - Brightness - Contrast
  - Hue (NTSC systems only)
  - Saturation - Flick
  - Sharpness
- Windows and Mac® compatible
- Power: 5VDC (included)



rear of unit

## BNC to VGA Converter

### BNCVGAHR

#### Features

- Allows BNC composite video output to be viewed on a VGA monitor (CRT or LCD)
- On-screen display
- BNC output for loop-through
- Image controls:
  - Brightness - Contrast
  - Saturation - Hue
  - Sharpness - Resolution
- Windows and Mac® compatible
- Power: 5VDC (included)



## 1 Input to 4 Outputs BNC Splitter

### VIDDIST

#### Features

- Allows a single camera, multiplexer, DVR, etc. with BNC composite connections to be displayed on up to 4 monitors
- Operates with color or black & white signals
- Power: 12VDC (included)



rear of unit

## Coaxial Impedance Adaptor

### VIDDVR

#### Features

- BNC Male to BNC female with 7.5" pigtail on each end
- Designed to give the DVR immunity from interference
- Utilizes a highly balanced mode of video transmission which is immune to interference from sources of noise: data signals, other video signals, nearby power, land-based telephones, fluorescent lights, transformers and more
- May require more than one balun to eliminate interference, depending on cause, location of camera, location of DVR, etc.



## Passive Baluns MVTBNCSCR, MVTBNCSCRPTL, VIDUTP

### Features

- Allows the use of UTP Cat5 cabling, a more flexible cable style, for quicker installations
- Transmits a black & white signal up to 1900' and a color signal up to 980', via Cat5 UTP
- Connections: - VIDUTP, MVTBNCSCR: Screw terminal to BNC  
- MVTBNCSCRPTL: Screw terminal to 4" pigtail BNC
- No power required
- VIDUTP is sold in pairs, MVTBNCSCR is sold in packs of 10, MVTBNCSCRPTL is sold individually
- VIDUTP – 1" (W) x 0.8" (H) x 2.5" (L)
- MVTBNCSCR – 0.6" (H) x 0.6" (W) x 1.95" (L)
- MVTBNCSCRPTL – 0.6" (H) x 0.6" (W) x 1.95" (L) + 4" Pigtail



MVTBNCSCRPTL



MVTBNCSCR



VIDUTP

## 4 Input to 4 Output Video Amplifier VID4AMP

### Features

- Allows four individual cameras to be transmitted to 4 individual monitors or a single DVR with multiple inputs
- Wide bandwidth, video gain compensation amplification
- HF compensation
- 10dB adjustable image gain
- Sharpness and brightness adjustment
- Power: 12VDC (Included)



## Coaxial Ground Loop Isolator VIDGL

### Features

- Protects against the symptoms of ground loop in an installation
- BNC Male to BNC female with mini-cable on both sides
- Built-in TVS (Transient Voltage Suppressors) for surge protection
- Prevents from potential interference from nearby power lines
- No power required



## Active Video/Audio/Data Transmission UTP4A

### Features

- Transmit video, audio and data signals over twisted pair up to 4900' for color signals or 7800' for BW
- System can be integrated with alarm sensor (PIR, magnetic, etc.) or to transmit data (pan, tilt, zoom controls)
- Includes transmitter and receiver
- Transmitter has: three position range switch for gain select
- Receiver has: five position distance range switch, brightness adjustment and two video outputs
- Built-in transient protection and ground-lifting
- This accessory should not be used on installations under 325'
- Power: 2 x 12VDC (included)



## 1 Input to 1 Output Video Amplifier VIDAMP

### Features

- Wide bandwidth, video gain compensation amplification
- HF compensation
- 10dB adjustable image gain
- Sharpness and brightness adjustment
- Power: 12VDC (included)



## 16-Port Passive Transceiver HUB UTP16P

### Features

- Allows four individual cameras to be transmitted to 4 individual monitors or a single DVR with multiple inputs
- Wide bandwidth, video gain compensation amplification
- HF compensation
- 10dB adjustable image gain
- Sharpness and brightness adjustment
- Power: 12VDC (Included)



rear of unit

## 16-Port Active Receiver Hub UTP16AR

### Features

- Transmit video signals up to 4900' in conjunction with one of the following Speco passive baluns:
  - MVTBNCSCR - MVTBNCSCRPTL
  - UTPPTAIL - VIDUTP
  - Range can be extended to a total of 6500' if used with third-party active balun
- 1U Rack-mountable (hardware included)
- Utilizes a highly balanced mode of video transmission for extra interference immunity
- Provides auto-gain control to help ensure picture quality
- Built-in transient protection
- Power: 12VDC (included)
- Also available in 4-port model: UTP4AR



rear of unit

## Video Transceiver with 10" BNC Cable UTPPTAIL

### Features

- BNC male to terminal block
- Transmits a full-color video signal up to 980'
- Rated IP65 for outdoor use
- Constructed with a highly balanced mode of video transmission which is immune to interference from sources of noise such as: data signals, other video signals, nearby power, ringing telephones, fluorescent lights, transformers, etc.
- No power required



## Twisted Pair Video Balun With Built-in Ground Loop Isolator UTPGLPR

### Features

- Protects against the symptoms of ground loop in an installation
- Built-in Video Balun transmits a full-motion monochrome signal up to 1900' and a color signal up to 980'
- BNC Male to 2-pin terminal block
- Built-in TVS (Transient Voltage Suppressors) for surge protection
- Prevents from potential interference from nearby power lines
- No power required



## IP Extender over Coax IPRG59

### Features

- Transmit IP video signals up to 650' using coaxial cable
- Exceeds 802.3 10BaseT (10mbps) standard
- Sold in pairs
- Only used for signal transmission. Does not accommodate Power over Ethernet.



## DVI Cat5 Extender DVIXTNR

### Features

- Used in pairs via one Cat5e/6 cable to send DVI signal
- RJ45 female to DVI-D connector
- Transmit DVI video signals up to 220'
- DVI 1.1 compliant
- Supports resolutions up to 1920x1200
- Includes transmitter and receiver
- No external power required



## VGA Extender Over Cat5 VGA135

### Features

- Transmit VGA video signals up to 320' using Cat5 cable
- Includes transmitter and receiver
- Built-in sync mode selection and sync filter level for signal stability
- Supports up to 1280x1024 resolution
- No power required



## Power and Video Over Cat5e VIDCAT2

### Features

- Transmit both power and signal from a camera up to 600' using a Cat5e cable
- Actual effective distance could vary factoring in voltage drop with the power requirements of the camera
- Compatible with current TIA-568 & TIA-570 structured Cat5 cabling standards
- Includes transmitter and receiver
- Connects to Cat5e through the use of a 6-pin terminal connector
- Add your own 12VDC power supply (not included)
- Works with any baseband signal (not just cameras)



## VGA Long Range Distribution Over Cat5

### VGADISTK2 VGADISTK5 VGAR

- Extend 1 source to 1 VGA Monitor with a VGA loopout for local viewing
- Extend 1 source to 4 VGA Monitors with a VGA loopout for local viewing
- Active Long Range VGA Receiver

### Features

- Extends a VGA video signal up to 980' using a Cat5 cable
- Supports up to 1600x1200@85Hz
- VGADISTK2 and VGADISTK5 include a loop output for local viewing
- Built-in Contrast and brightness adjustment at receiver
- Both VGADISTK2 and VGADISTK5 include one VGAR active receiver
- VGADISTK5 requires the purchase of an additional VGAR for each additional monitor, up to 3 more
- Power: Each component requires a 5VDC power supply (included)



## VGA / PS/2 Extender Over Cat5 KVMPC2

### Features

- Transmit VGA video signals up to 320' using Cat5 cable
- Can also extend data from PS/2 mouse and keyboard using an additional Cat5 cable
- Includes transmitter and receiver
- Built-in sync mode selection and sync filter level for signal stability
- Supports up to 1280x1024 resolution
- No power required



## PS/2 to USB Keyboard/Mouse Extender Over Cat5 KMUSB

### Features

- Transmit mouse and keyboard signals up to 320' using Cat5 cable
- Local unit has USB to RJ45 connectors, remote unit has PS/2 to RJ45 connectors.
- Includes transmitter and receiver
- No power required



## SURGE PROTECTORS COMMON SPECIFICATIONS

- Protect equipment from high voltage surges from nearby lightning strikes
- Two stage protection: under 1ns-90V, over 10ns-12V
- Surge Protection Attack Time: 1 ns
- Maximum Surge Current: 4 KV
- Surge Life: 300 surges of 100 Amps
- Power Passing Capability:  
130V AC/DC, 65 Vrms at 10 Amps
- 2 year warranty

## Video & Power Surge Protector SPVP

### Features

- 3-pin terminal ( $\pm$  /Ground) to 2-pin terminal ( $\pm$ ) for power
- BNC male to BNC female for Video



## UTP Video/Data Surge Protector SPUTPVD

### Features

- Screw terminal to screw terminal connection
- Max power input: AC 40V, DC 56V
- Two-stage protection: AC/DC 130V, AC/DC 12V



## Network Surge Protector SPIP

### Features

- RJ45 to RJ45 connection
- Four pair protection
- Sold in pairs to protect expensive equipment at both ends of run



## Coaxial Video Surge Protector SPCOAX

### Features

- BNC male to BNC female for video
- Hi frequency for both CCTV and CATV use
- Two-Stage Protection: AC/DC 130V, AC/DC 12V
- Dimensions: 1" (W) x 1" (H) x 3.2" (L)



## PoE Surge Protector SPPOE

### Features

- RJ45 to RJ45 connection
- 802.3af compatible
- Works with both midspans and endspans/switches
- Power and signal line protection
- Sold in pairs to protect expensive equipment at both ends of run



## Rack Mount Power Conditioner PCN8

### Features

- RFI/EMI Interference filter
- 8 AC switched outlets on rear panel and one unswitched AC outlet on front panel
- Circuit breaker
- Dual retractable rack illuminators to light fronts of DVRs and amplifiers underneath
- Front panel LED meter displays incoming AC line voltage
- Rack mountable (1U)



rear of unit



## DC Plug to Terminal Block DCPLGBLOK DC Female to Terminal Block DCPLGBLOKM DC Male to Terminal Block

### Features

- Compact, to fit into tight spaces
- 2.1mm DC plug
- Sold in packs of 10



## AC to DC converter VID2412CONV

### Features

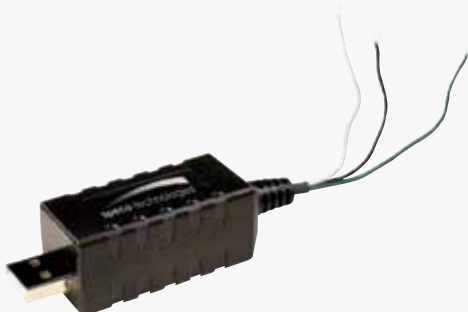
- Regulated 12V DC output @ 500mA
- Accepts 15 – 26 Volts AC and converts it to 12 Volts DC
- Accepts 15 – 28 Volts DC and converts it to 12 Volts DC
- Voltage input via 2-pin terminal block
- 12V DC output via 2.4 coaxial female power connection



## USB Power Loss Detector USBPL1

### Features

- Male USB connector to plug directly into your device



SPCAVA60



## Alert Series 60 Watt P.A. Horn with Built-In LED Strobe Flasher



*Prevent crime, don't just record it!*

A unique bright, blinking LED strobe will activate when the Digital Deterrent® notification from your Speco Technologies DVR has been triggered.

### Features

- Frequency Response: 200Hz – 15,000Hz
- Max. Power: 60W
- Impedance: 8 Ohms
- Dimensions: 8" (W) x 9.25" (L) x 4.5" (H)
- ABS Plastic

for use with **Digital Deterrent®**

Audio For Security or Retail Applications

## DVR AUDIO ACCESSORY KITS

ALL KITS ARE DESIGNED FOR USE WITH SPECOTECH DVRs

### Digital Deterrent® Audio Kits\*

**DON'T JUST RECORD CRIME, PREVENT IT!**

SPCAVA60

Horn Strobe with Flasher

PVL15A  
Amplifier



DDAK2

PSW5  
Power Supply



DDAK3

SPCAVA60

Horn Strobe with Flasher

PBM30  
Amplifier

PSW5  
Power Supply

DDAK4



ASPC20  
Amplified Horn

PSDC24  
Power Supply

### 2-Way Audio Kits\*\*

**COMMUNICATE WITH REMOTE SUBJECTS THROUGH THE CLOUD!**

PVL15A  
Amplifier

DMS3TS  
Speaker



2WAK2

CAMMIC



2WAK3

PBM30  
Amplifier

DMS3TS  
Speaker

CAMMIC



2WAK4

ASPC20  
Amplified Horn

CAMMIC

PSW5  
Power Supply



## Dome Flush Mount Kit DFM

### Features

The DFM Dome Flush Mount Kit allows select Speco Technologies dome cameras to be flush mounted into walls and ceilings. Give your customers the designer look they desire.

- Back box easily flush mounts into hollow walls and ceilings.
- Flush mount box is secured with the use of four retaining clamps.
- Perfect for existing construction.
- Preconfigured to fit several types of Speco tamperproof and indoor dome cameras.
- Contains two different size Chameleon Cover™ decorator rings for a finished look.
- Rings can be painted to match any décor before installation.
- Built-in loop allows the installer to secure the DFM with a safety strap.
- Installation template included.



Compatible with the following Speco Technologies dome camera models:

- |           |                   |
|-----------|-------------------|
| HT7246iHR | CVC6246iHR series |
| HT7247iHR | CVC6146SCS series |
| HT7248FFi | VL648iR series    |
| HT7250iHR | CVC648iR series   |

## Weather Resistant Heavy Duty Camera Housing

- VCH400HBMT** Housing, heater, blower & bracket
- VCH400MT** Housing & bracket only

### Features

- Ivory housing color
- Rust proof hardware
- Housing with heater, blower, & bracket (VCH400HBMT only)
- Housing dimensions: 15.25" (L) x 5.5" (L) x 4" (H)
- Bracket dimensions: 11.5" (L) x 3.25" (L) x 4" (H)
- 24VAC power supply (power supply not included)
- 1 year warranty



Compatible with the following Speco Technologies traditional camera models:

- |           |         |
|-----------|---------|
| HTINTT5   | VLINTT5 |
| HTINTT5H  | WDRT6   |
| HCLR07L0G | VL611C  |

### Optional Accessory



## 16 Gauge Steel Lock Box LB1

### Features

- For desktop DVR or VCR units measuring up to 21" (W) x 21" (L) x 8" (H)
- Extra security for DVRs/VCRs
- Cooling fan
- Includes power supply and cord
- 1 year warranty



rear of unit

## DVR Lock Box LB3

### Features

- Rack mountable on 2 or 4 posts with a 3 RU overall height
- Interlocking lift off lid
- Multiple vents with removable vent blockers for active or passive thermal management
- Single fan included with mounting location for a second fan
- Key locked hinged front door
- Black static resistant powder coat finish
- Interior dimensions - 17.2" W x 21" D x 5" H
- Product Weight: 24 lbs



## TBAR / Wall / Ceiling / Mounts

### CSTTBAR

- All parts included to use as a T-Bar, Wall, Ceiling or Pedestal mount.
- Attaches to dropped ceilings
- 4" (L) x 1.5" (H)



### CST175

- Heavy duty cast aluminum
- Beige



### CST115

- Black metal bracket
- 360° rotation
- Use with mini cameras
- Standard 1/4" thread
- 2.25" (H) x 1.75" (W)



### 6" Universal brackets in plastic or metal

#### CST125 black

#### CST125A almond

#### CST100

Plastic  
6.375" (L) x 3.5" (H)



Metal  
7" (L) x 1.75" (H)



## CAMERA LENSES, CABLES, POWER SUPPLIES & ADAPTORS

We stock a complete line of lenses to fit all cameras. All lenses are CS mount unless specified.

**Note: All CS lenses can be used on CS mount with adaptor ring**

### CS VARIFOCAL LENSES

Model	Length	Aperture	Iris	Connector
VF3.58	3.5-8mm	F1.4	Manual Iris	-
VF3.58DC	3.5-8mm	F1.4	DC Auto Iris	4 Pin Connector
VF2.812	2.8-12mm	F1.4	Manual Iris	-
VF2.812DC	2.8-12mm	F1.4	DC Auto Iris	4 Pin Connector
VF660DC	6-60mm	F1.6	DC Auto Iris	4 Pin Connector
VF5100DC	5-100mm	F1.8	DC Auto Iris	4 Pin Connector

### CS FIXED LENSES

Model	Length	Aperture	Iris	Connector
CL8	8mm	F1.3	No Iris	-
CL16	16mm	F1.6	No Iris	-
CSAR1	CS Mount Adapter Ring		-	-

### MEGAPIXEL LENSES

Model	Length	Iris	Connector
VFMP2.2812	2.8-12mm	Manual Iris	-
VFMP2.2812DC	2.8-12mm	Auto Iris	-

### LENS OPTIONS FOR COLOR & B/W BOARD CAMERAS

Model	Length
CLB2.2	2.2mm Board Camera Lens
CLB2.5	2.5mm Board Camera Lens
CLB2.9	2.9mm Board Camera Lens
CLB3.6	3.6mm Board Camera Lens
CLB4	4mm Board Camera Lens
CLB6	6mm Board Camera Lens
CLB8	8mm Board Camera Lens
CLB12	12mm Board Camera Lens
CLB16	16mm Board Camera Lens

### POWER SUPPLIES

Model	Description
PSW3	24VAC Power Supply, 20 Volt Amps Terminal Connections
PSW4	24VAC Power Supply, 50 Volt Amps Terminal Connections
PSW5	12VDC Power Supply, 1000ma, 1 Amp Center Positive

### BNC Cables

Model	Description
RG59	RG59U Coaxial Cable
BB3	3' Cable (BNC Male To BNC Male)
BB6	6' Cable (BNC Male To BNC Male)
BB12	12' Cable (BNC Male To BNC Male)
BB25	25' Cable (BNC Male To BNC Male)
BB50	50' Cable (BNC Male To BNC Male)

### CCTV POWER/VIDEO EXTENSION CABLES

Combines power & video signal in one multi-purpose cable

#### BNC TO RCA

Model	Description
CBL25	25' Power & Video Signal In One Cable
CBL50	50' Power & Video Signal In One Cable
CBL150	150' Power & Video Signal In One Cable

#### BNC TO BNC

Model	Description
CBL25BB	25' Power & Video Signal In One Cable
CBL50BB	50' Power & Video Signal In One Cable
CBL100BB	100' Power & Video Signal In One Cable
CBL150BB	150' Power & Video Signal In One Cable

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