



VERTEX STANDARD is registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. © Vertex Standard Co. Ltd.

NBRO\_P-ACC\_12/2009



# Portable LMR Accessories Guide

Antennas • Batteries • Cases • Chargers  
Headsets • Microphones • Option Boards



[www.vertexstandard.com](http://www.vertexstandard.com)

## Contents

Microphones and Ear Phone	Page 2
Batteries	Page 3
Option Boards	Page 3
Battery Chargers	Page 4
Cases – Leather	Page 5
Cases – Nylon	Page 6
Antennas	Page 6

Specifications featured in this guide are subject to change without notice or obligation.

## Why Vertex Standard?

For over five decades, Vertex Standard has maintained a focused commitment to delivering quality radio communications equipment that supports business productivity and public safety worldwide. We are proud to have never lost sight of this commitment and are relentless to do what it takes to continuously earn your business and achieve total customer satisfaction.

- Focused Commitment to Radio Communications Since 1956
- Engineering Expertise in Compact, Feature-Rich Radios for Maximum Value
- Quality and Continuous Improvement Standards
- Reliable Products Built to IP and MIL-STD Specifications
- Value-Driven Performance: Quality Radios and Cost Savings

## Headset Microphone Styles

Style	Key Features	Suggested Uses
<b>Voice Activated</b>	Hands free communication for efficiency without handling radio. Hear conversations without disturbing others.	Education Hotels Restaurants Retail Event Management
<b>Behind The Head</b>	Hands free communication with ability to hear other sounds and nearby conversations.	
<b>Single Muff</b>	Wear on either ear. Hands free communication with ability to hear other sounds and nearby conversations.	
<b>Dual Muff</b>	Covers both ears to minimize ambient noise.	Construction Utilities Warehousing Light Manufacturing
<b>Heavy-Duty Dual Muff</b>	For use in high noise environments for improved hearing clarity and protection. Noise Reduction Rating = 24dB.	Emergency Response Heavy Manufacturing Utilities Construction Airports Racing
<b>3-Wire Mini Surveillance</b>	Earpiece, Microphone and Push-To-Talk are separate for discreet, communication and easily concealed. Clear tube earpiece design helps maintain low profile.	Security Public Safety Restaurants Hotel Management
<b>2-Wire Mini Surveillance</b>	Earpiece, Microphone and Push-To-Talk are combined for discreet, hands-free communication. Clear tube earpiece design helps maintain low profile.	
<b>Earpiece</b>	Hands-free, light-duty use. PTT lapel microphone for convenient transmit. Use in low-noise environments and to maintain professional appearance.	Retail Restaurants Education

## Microphones and Ear Phones

Model	Description	VX-160	VX-230	VX-350	VX-410	VX-420	VX-420A	VX-510	VX-820/P820	VX-920/P920
<b>Microphones</b>										
MH-450S *	Standard Speaker	•	•	•	•	•	•			
MH-45A2B	Standard Speaker							•		
MH-45B4B *	Noise Cancelling Speaker	•	•	•	•	•	•			
MH-360S *	Compact Speaker	•	•	•	•	•	•			
MH-66A7A	Submersible, Noise Cancelling								•	•
MH-66B7A	Submersible, 2 Programmable Buttons								•	•
MH-50D7A	Speaker w/Push Switch								•	•
<b>Headset Microphones and Ear Phones</b>										
VC-25 *	Voice Activated (VOX)	•	•		•	•	•			
VH-115S *	Behind The Head	•	•	•	•	•	•			
VH-115L	Behind The Head								•	•
VH-215S *	Single Muff	•	•	•	•	•	•			
VH-215L	Single Muff								•	•
VH-225S *	Dual Muff	•		•	•					
VH-110S *	Heavy-Duty Dual Muff	•	•	•	•	•				
VH-111	Heavy-Duty Dual Muff								•	•
VH-120S *	3-Wire Mini Surveillance	•	•	•	•	•				
VH-121	3-Wire Mini Surveillance								•	•
VH-130S *	2-Wire Mini Surveillance	•	•	•	•	•				
VH-131	2-Wire Mini Surveillance								•	•
MH-37A4B *	Ear Piece (RX/TX)	•	•	•	•	•	•			
FEP-10	Ear Phone (RX only)	•	•	•	•	•	•			

\* S = Single Pin Connector





## Cases - Leather

### VX-230 / VX-351

- LCC-351 Leather Case, Belt Loop
- LCC-351S Leather Case, Swivel Belt Loop

### VX-354

- LCC-354 Leather Case, Belt Loop
- LCC-354S Leather Case, Swivel Belt Loop

### VX-410

- LCC-410 Leather Case, Belt Loop
- LCC-410S Leather Case, Swivel Belt Loop

### VX-420 / VX-420A

- LCC-420 Leather Case, Belt Loop
- LCC-420S Leather Case, Swivel Belt Loop

### VX-510

- LCC-500 Leather Case, Belt Loop
- LCS-2 Swivel Belt Loop Attachment for LCC-500

### VX-821

- LCC-820S Leather Case, Swivel Belt Loop
- LCC-820SH Leather Case, Swivel Belt Loop (FNB-V92LI battery)
- LCC-820H Leather Case, Belt Loop (FNB-V92LI battery)

### VX-824

- LCC-820SH/4K Leather Case, Swivel Belt Loop (FNB-V92LI battery)
- LCC-820H/4K Leather Case, Belt Loop (FNB-V92LI battery)

### VX-829

- LCC-820S/TT Leather Case, Swivel Belt Loop
- LCC-820SH/TT Leather Case, Swivel Belt Loop (FNB-V92LI battery)

### VX-921

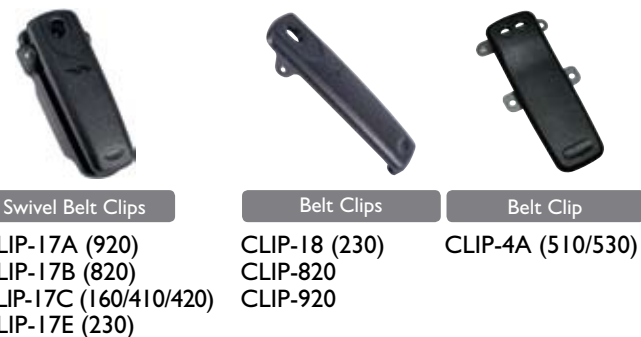
- LCC-920S Leather Case, Swivel Belt Loop
- LCC-920SH Leather Case, Swivel Belt Loop (FNB-V92LI battery)
- LCC-920H Leather Case, Belt Loop (FNB-V92LI battery)

### VX-924

- LCC-920SH/4K Leather Case, Swivel Belt Loop (FNB-V92LI battery)
- LCC-920H/4K Leather Case, Belt Loop (FNB-V92LI battery)

### VX-160

- LCC-160 Leather Case, Belt Loop
- LCC-160S Leather Case, Swivel Belt Loop



## Case Styles



## Cases - Nylon

### VX-821

- LCC-820SN1C Nylon Case, Swivel Clip
- LCC-820SN1D Nylon Case, Leather Swivel Belt Loop

### VX-824

- LCC-820SN2C Nylon Case, Swivel Clip
- LCC-820SN2D Nylon Case, Leather Swivel Belt Loop

### VX-829

- LCC-820SN3C Nylon Case, Swivel Clip
- LCC-820SN3D Nylon Case, Leather Swivel Belt Loop

### VX-921

- LCC-920SN1C Nylon Case, Swivel Clip
- LCC-920SN1D Nylon Case, Leather Swivel Belt Loop

### VX-924

- LCC-920SN2C Nylon Case, Swivel Clip
- LCC-920SN2D Nylon Case, Leather Swivel Belt Loop

### VX-929

- LCC-920SN3C Nylon Case, Swivel Clip
- LCC-920SN3D Nylon Leather Swivel Belt Loop



## Antennas

Model	Frequency	Size (inches)	VX-160	VX-230	VX-350	VX-410	VX-420	VX-420A	VX-510	VX-530	VX-820/P820	VX-920/P920
ATL-1A	30 - 36 MHz	10.5										
ATL-1B	36 - 42 MHz	10.5										
ATL-1C	42 - 50 MHz	10.5										
ATV-6A	134 - 151 MHz	4	•									•
ATV-8A	134 - 151 MHz	6	•	•	•		•					•
ATV-10A	145 - 155 MHz - High Gain	10.5	•	•	•	•	•	•				•
ATV-10B	150 - 160 MHz - High Gain	10.5	•	•	•	•	•	•				•
ATV-6B	150-163 MHz	3.5	•		•	•	•	•				•
ATV-8B	150 - 163 MHz	6	•	•	•	•	•	•				•
ATV-10C	155 - 165 MHz - High Gain	10.5	•	•	•	•	•	•				•
ATV-6C	161 - 174 MHz	3.5	•		•	•	•	•				•
ATV-8C	161 - 174 MHz	6	•	•	•	•	•	•				•
ATV-10E	165 - 175 MHz - High Gain	10.5	•	•	•	•	•	•				•
ATV-6XL	VHF Untuned	7	•	•	•	•	•	•				•
ATU-6A	400 - 430 MHz	6.5	•	•	•	•	•					•
ATU-6AS	410 - 430 MHz	3.5	•									•
ATU-5DS	450 - 470 MHz	3								•		
ATU-5D	450 - 470 MHz	6.5								•		
ATU-6DS	450 - 485 MHz	3.5	•	•		•	•					•
ATU-6D	450 - 490 MHz	6	•	•	•	•	•					•
ATU-6F	490 - 512 MHz	5.5		•	•							•
ATW-1A	134 - 151 MHz / 450 - 520 MHz Dual Band RX											•
ATW-1B	134 - 163 MHz / 450 - 520 MHz Dual Band RX											•
ATW-1C	161 - 174 MHz / 450 - 520 MHz Dual Band RX											•