

Welcome to the world of Midland electronics

Congratulations on your purchase of a high quality MIDLAND product. Your 2-way radio represents state-of-the-art high-tech engineering. Designed for GMRS (General Mobile Radio Service) operation, this compact package is big on performance. It is a quality piece of electronic equipment, skillfully constructed with the finest components. The circuitry is all solid-state and mounted on a rugged printed circuit board. Your two-way radio is designed for reliable and trouble-free performance for years to come.

Features

- 36 GMRS/FRS Channels
- 121 Privacy Codes (38 CTCSS / 83 DCS)
- VOX
- Selectable Call Alert
- NOAA Weather Scan
- NOAA Weather Radio
- NOAA Weather Alert
- Scan Function
- Monitor Function
- Roger Beep Tone
- Silent Operation
- Key Pad Lock
- Power High / Low Settings
- Speaker / Microphone Jacks
- Battery Meter / Battery Low Indicator

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device does not cause harmful interference, and (2) this radio must accept any interference that may cause undesired operation.

To maintain compliance with FCC's RF exposure guidelines, for body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Midland Radio Corp. accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

CHARGING THE BATTERY PACK

Your LXT600 Series is equipped for using a rechargeable NiMH battery pack which can be recharged by inserting the AC adapter into the radio charge jack, or with optional desktop charger (as described below). Initial charge time is 24 hours. Charge time is about 12 hours thereafter. For maximum battery life, we recommend charging the battery pack when the low battery icon comes on. Remove the radios from the charger when the charge time expires.

To charge using a Desktop Charger:

1. Place the rechargeable battery packs in the radios.
2. Connect the AC adapter into an AC wall outlet.
3. Insert the AC adapter plug (or DC Cigarette Lighter adapter if charging in vehicle) into the desktop charger jack.
4. Place the units into the desktop charger slot and note that the LED indicator with RED color will light up, indicating charging function. **In order to ensure that the battery pack is fully charged, it is recommended that the battery pack be charged for at least 12 hours with the radio turned OFF.**

1. Only use our NiMH battery pack and AC adapter.
2. Do not attempt to charge alkaline batteries or any batteries or battery packs other than the one indicated in the manual. This may cause leakage and damage to the radio.
3. For long term storage of the radio, turn the radio OFF and remove the batteries from the radio.

BATTERY LEVEL INDICATOR

Your LXT600 Series has a **BATTERY LEVEL METER** that shows the battery power level. The greater the number of bars visible, the stronger the battery level. When the battery level is low, the **Battery Shell** icon will flash in the display indicating your batteries should be replaced or recharged if using a rechargeable battery pack.

IMPORTANT NOTICE, FCC LICENSE REQUIRED FOR GMRS OPERATION (Only Applicable for GMRS Radio Use in the United States)

The LXT600 Series operates on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. You must be licensed prior to operating on channels 1 - 7 or 15 - 22, which comprise the GMRS channels of the LXT600 Series. Serious penalties could result from unlicensed use of GMRS channels, in violation of FCC rules, as stipulated in the Communications Acts Sections 501 and 502 (amended).

You will be issued a call sign by the FCC which should be used for station identification when operating the radio on GMRS channels. You should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of your transmission time.

To obtain a license or ask questions about the license application, contact the FCC at 1-888-CALL FCC or go to the FCC's website: <http://www.fcc.gov> and request form 605.

Exposure To Radio Frequency Energy

Your Midland radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- United States Federal Communications Commission, Code of Federal Regulations: 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical & Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- National Council on Radiation Protection and Measurements (NCRP) of the United States, Report 86, 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

To control your exposure and ensure compliance with the general population or uncontrolled environment exposure limits, transmit no more than 50% of the time. The radio generates measurable RF energy exposure only when transmitting.

IMPORTANT: Changes or modifications to this unit not expressly approved by **MIDLAND RADIO CORP.** could void your right to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the COMMUNICATOR to exceed those limitations. Any adjustment to your radio must be made by qualified technicians.

OPERATING YOUR RADIO

POWER ON/OFF AND VOLUME

Rotate the **POWER/VOLUME** knob clockwise to turn the radio on and increase the volume level. Rotate the control counter-clockwise to reduce the volume level and to turn the radio off. During Power On, the radio will beep 2 times with different tones, the LCD will display all icons for 1 second and the LCD display will indicate the last channel selected.

TRANSMITTING AND RECEIVING A CALL

To communicate, all radios in your group must be set to the same channel and/or Privacy Code.

1. For maximum clarity, hold the radio 2 to 3 inches from your mouth.
2. Press and hold the **PTT** button and speak in a normal voice into the **microphone**. The **TX** icon will appear continuously on the LCD display while transmitting.
3. To receive a call, release the **PTT** button. The **RX** icon will appear on the display when your radio is receiving a transmission.

ABOUT RANGE

Your LXT Series radios are designed to give you maximum range under optimum conditions.

 Maximum Range / Little to No Slight Obstruction

 Medium Range / Partial Obstruction to Line of Sight

 Short Range / Major Obstruction to Line of Sight

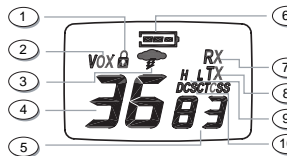
Optimum Conditions are:

- Over water
- Open rural areas without obstructions
- Flat areas where you can see the other person

To ensure you get maximum range:

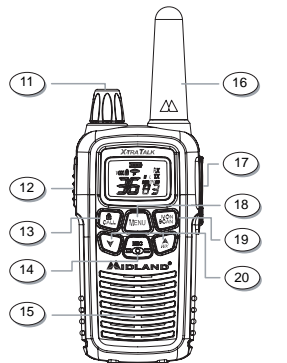
- Be sure to use fresh or fully charged batteries - low batteries will cause low power conditions.
- Be sure you are on a GMRS channel - FRS channels are restricted by the FCC to low power.
- Be sure to set your radio to use Hi power.

LCD DISPLAY



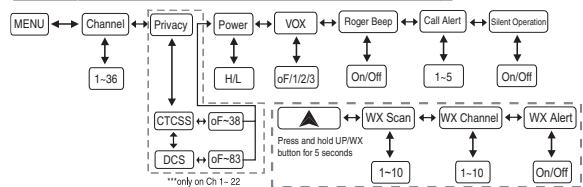
1. **KEY LOCK ICON** – Indicates KEY LOCK mode is on.
2. **VOX ICON** – Indicates when VOX mode is active.
3. **NOAA WEATHER (WX) BAND ICON** – Indicates when the radio is in Weather Band mode.
4. **CHANNEL NUMBER** – Changes from 1-36 on GMRS/FRS band (1-10 on WX band).
5. **PRIVACY CODE** – Indicates Privacy Code selected by user (oF-38/oF-83). It can only be set in Ch 1-22.
6. **BATTERY METER** – Indicates the battery level.
7. **RECEIVE (RX) ICON** – Indicates radio is receiving a transmission.
8. **TRANSMIT (TX) ICON** – Indicates radio is transmitting a signal.
9. **TRANSMIT POWER LEVEL ICON** – Indicates TX Power setting (HL).
10. **PRIVACY CODE ICON** – Indicates Privacy Code setting (CTCSS/DCS).

CONTROLS



11. **POWER/VOLUME KNOB** – Turn clockwise to turn the power on and increase the volume level. Turn counter-clockwise to decrease the volume level and turn the power off.
12. **PTT Button** – Press and hold to transmit voice communication.
13. **CALL LOCK Button** – Press to send a CALL Alert signal. Press and hold to turn KEY LOCK on/off.
14. **MIC** – Built-in microphone.
15. **SPEAKER** – Built-in speaker.
16. **ANTENNA**
17. **EXTERNAL SPEAKER/MIC/CHG JACK**
18. **MENU Button** – Press momentarily to access Menu mode.
19. **MONITOR/SCAN Button** – Press to enter SCAN mode. Press and hold to enter MONITOR mode.
20. **UP/WX SCAN ▲ and DOWN ▼ Buttons** – Make adjustments in MENU mode. Press and hold the UP button for 5 seconds to activate the NOAA Weather Scan function.

LXT600 SERIES QUICK REFERENCE CHART



MONITOR

Pressing and holding the **MONITOR** button for 3 seconds will let you hear noise so you can adjust the volume level of the radio when not receiving a signal. This could also be used to check any activity on your current channel before transmitting.

Press and hold the **MONITOR** button for 3 seconds again to get out of **MONITOR** mode.

SCAN

Your LXT600 Series can scan all 36 channels for activity. To enter, quickly press the **SCAN** button. Repeat the same procedure to exit. Your radio will rapidly scan each of the 36 channels and stop on any active channel for 4 seconds before resuming scan.

When you press the **PTT** button to transmit on an active channel, the scanning function will stop and remain on the active channel. To resume scanning, quickly press the **SCAN** button.

CALL ALERT

Your LXT600 Series can transmit a call alert for a fixed length of time. To send a call alert, press the **CALL** button. The **TX** icon will appear while transmitting a call alert and a tone can be heard on the speaker for confirmation.

KEYPAD LOCK

To avoid accidentally changing the radio setting, press the **LOCK** button for 4 seconds. The **KEY LOCK** icon will appear on the display. **PTT** and **CALL** will still be active. Repeat the same procedure to unlock the keypad.

CHANNEL SELECTION (GMRS/FRS BAND)

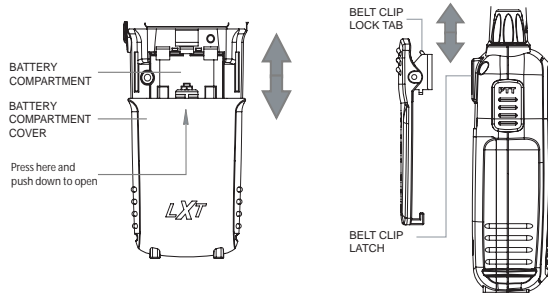
Press the **MENU** button once, and then the **▲▼** buttons to select one of the 36 GMRS/FRS channels. To confirm the selection, press the **PTT** button or press the **MENU** button again to move to the next feature setting.

BATTERY INSTALLATION

Your LXT600 Series radio operates with either a NiMH battery pack or optional 3 AAA alkaline batteries. The belt clip should be removed (see below) to ease installation or removal of the batteries.

To install the batteries:

1. With the back of the radio facing you, remove the belt clip (see diagram below) for easy access, then remove the Battery Cover by pressing down on the top center and sliding it down from the radio.
2. Insert 4 AAA batteries observing the polarity as shown. Installing the batteries incorrectly will prevent the unit from operating or may damage the unit.
3. Return the Battery Cover by sliding it up on the radio. Replace the belt clip, making sure it locks into place.



INSTALLING THE BELT CLIP

To install the **BELT CLIP**, slide the clip down into the slot on the back of the radio until the **BELT CLIP LATCH** clicks. To remove the **BELT CLIP**, press the **LOCK TAB** down, then gently pull the belt clip up toward the top of the radio.

SETTING PRIVACY CODES

Your LXT600 Series has 121 **Privacy Codes** available to use in channels 1-22. The selected **Privacy Code** may be different for each channel. To select a **Privacy Code** for the current channel press the **MENU** button twice, and then the **▲▼** buttons to select one of the 38 **CTCSS** Privacy Code. Press again the **MENU** button and the **▲▼** buttons to select one of the 83 **DCS** Privacy Code. The **Privacy Code** icon on the display will indicate whether you set your Privacy Code in **CTCSS** or **DCS** mode. To confirm the selection, press the **PTT** button or press the **MENU** button again to move to the next feature setting.

Note : If you select a **CTCSS** Privacy Code, any pre-selected **DCS** Privacy Code will be cancelled and vice-versa. Selecting a Privacy Code of "oF" will disable the Privacy feature. To communicate between two LXT600 Series radios, all radios in your group must be set to the same channel and/or Privacy Code selections. **The Privacy Code can only be set in channels 1-22.**

TRANSMIT (TX) POWER LEVEL SELECTION

Your LXT600 has 2 power level settings. To select the power level on channels 1-7 and 15-36, press the **MENU** button until a "P" icon will appear blinking on the display. Then press the **▲▼** buttons to select **TRANSMIT POWER LEVEL** icon (H: Hi/L: Lo). To confirm, press the **PTT** button or press the **MENU** button again to move to the next feature setting. **When the PTT button is pressed during Low Battery Level condition, the TX Power will automatically switch from Hi(H) to Lo(L) level.**

Note : You cannot adjust the power setting on the **FRS channels (8-14)**. They are set to Low power per FCC regulations.

VOX

Your LXT600 Series has 3 VOX level settings: (oF/1/2/3). To set **VOX**, press the **MENU** button until the display shows "VOX" blinking while on the right of the **CHANNEL NUMBER** display, an "oF" icon appears. Select "1", "2" or "3" by pressing the **▲▼** buttons and push the **PTT** key, or press the **MENU** button again to move to the next feature setting.

MIDLAND RADIO CORPORATION
5900 Parretta Drive
Kansas City, MO 64120
Call 816.241.8500

We'd love to hear from you! Let us know what you think of your new Midland product at



or by visiting us at www.midlandradio.com

Note: Features & Specifications are subject to change without notice. MIDLAND is not responsible for unintentional errors or omissions on its packaging.

VOX will be more sensitive on the "1" setting than on the "3" setting. To turn **VOX** off, press the **MENU** button until the display shows "VOX" blinking while on the right of the **CHANNEL NUMBER** display, a "1", "2" or "3" icon appears. Select "oF" by pressing the ▲▼ buttons and push the **PTT** key, or press the **MENU** button again to move to the next feature setting.

ROGER BEEP (end of transmission) TONE

When the **PTT** button is released, the radio will beep to confirm to other users that your transmission has finished.

To turn the **ROGER BEEP** tone on, press the **MENU** button until the display shows a "rb" icon while on the right of the "rb" display, an "oF" icon appears. Select "oF" by pressing the ▲▼ buttons and push the **PTT** key, or press the **MENU** button to move to the next feature setting.

To turn the **ROGER BEEP** tone off, press the **MENU** button until the display shows a "rb" icon while on the right of the "rb" display, an "on" icon appears. Select "oF" by pressing the ▲▼ buttons and push the **PTT** key, or press the **MENU** button to move to the next feature setting.

CALL ALERT SELECTION

Your LXT600 Series has 5 selectable **CALL ALERTS**.

To select, press the **MENU** button until a "CA" icon appears and to the right of the "CA" icon the current **CALL ALERT** setting is displayed. Then press the ▲▼ buttons to make the **CALL ALERT** selections - the radio will emit a corresponding tone for each selection. To confirm, press the **PTT** button or press the **MENU** button to move to the next feature setting.

SILENT OPERATION

Your LXT600 Series has a **SILENT OPERATION** mode. In this mode, all "beeps" and "tones" are disabled.

To turn the **SILENT OPERATION** mode on, press the **MENU** button until the display shows a "bP" icon while on the right of the "bP" display, an "on" icon appears. Select "oF" by pressing the ▲▼ buttons and push the **PTT** key or **MENU** button.

To turn the **SILENT OPERATION** mode off, press the **MENU** button until the display shows a "bP" icon while on the right of the "bP" display, an "oF" icon appears. Select "on" by pressing the ▲▼ buttons and push the **PTT** key or **MENU** button.

DCS PRIVACY CODE CHART

No.	CODE	No.	CODE	No.	CODE
1	023	29	174	57	445
2	025	30	205	58	464
3	026	31	223	59	465
4	031	32	226	60	466
5	032	33	243	61	503
6	043	34	244	62	506
7	047	35	245	63	516
8	051	36	251	64	532
9	054	37	261	65	546
10	065	38	263	66	565
11	071	39	265	67	606
12	072	40	271	68	612
13	073	41	306	69	624
14	074	42	311	70	627
15	114	43	315	71	631
16	115	44	331	72	632
17	116	45	343	73	654
18	125	46	346	74	662
19	131	47	351	75	664
20	132	48	354	76	703
21	134	49	365	77	712
22	143	50	371	78	723
23	152	51	411	79	731
24	155	52	412	80	732
25	156	53	413	81	734
26	162	54	423	82	743
27	165	55	431	83	754
28	172	56	432	--	--

Note: Privacy codes can be programmed for use on Channels 1-22 only



NOAA WEATHER RADIO/SCAN

Your LXT600 Series has a **NOAA WEATHER RADIO** function, to enable the user to receive weather reports from designated **NOAA** stations.

Your LXT600 Series also has a **NOAA WEATHER SCAN** function to enable the user to scan all 10 channels of the **NOAA WEATHER RADIO**. To turn the **NOAA WEATHER SCAN** on, press and hold the **UP/WX** ▲ button for 5 seconds while in **GMRS** mode. The radio will go to **WX Band** mode and start scanning all 10 channels and stop on any active channel. When the channel becomes inactive for 10 seconds the radio will resume scanning.

To stop the **NOAA WEATHER (WX) SCAN** and set the channel manually on the **WX Band**, press the **MENU** button during **NOAA WEATHER (WX) SCAN**. The radio will stop scanning and the display will show the current **WX Band** channel setting and the **WX Band** icon. While on **WX Band** mode press the ▲▼ buttons to select one of the 10 **NOAA WEATHER (WX) BAND** channels. To confirm, press the **PTT** button or press the **MENU** button to move to the next feature setting.

To turn the **NOAA WEATHER RADIO** off, press the **PTT** button. The current **GMRS/FRS** radio setting will be displayed and the **WX BAND** icon will go off.

NOAA WEATHER ALERT

Your LXT600 has a **NOAA WEATHER ALERT** function, to enable you to automatically receive weather alerts from designated **NOAA** stations.

The **NOAA WEATHER (WX) ALERT** is automatically on during **NOAA WEATHER SCAN** mode.

To turn the **NOAA WEATHER (WX) ALERT** on during normal **NOAA WEATHER RADIO** mode, press the **MENU** button twice while in **NOAA WEATHER SCAN** mode. The display shows "AL," while on the right an "oF" icon appears blinking. Select "on" by pressing the ▲▼ buttons.

To confirm, press the **PTT** button or press **MENU**. The radio will return to **WX BAND** and the **WX BAND** icon will continue blinking. If the radio receives a **WX ALERT** signal from a designated **NOAA** station while on **GMRS/FRS Radio** mode, the radio will beep for 10 seconds while an "AL" and "In" icon appear on the display, after which it will automatically go to **WX BAND**.

If any button is pressed during beeping while on **GMRS/FRS Radio** mode, the radio will automatically go to **WX BAND**.

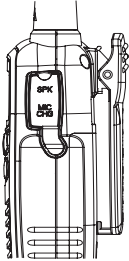
To turn the **NOAA WEATHER (WX) ALERT** off, press the **MENU** button twice while in **WX Band**. The display shows "AL," while on the right an "on" icon appears blinking. Select "oF" by pressing the ▲▼ buttons. To confirm, press the **PTT** button or press **MENU**.

Note : The WX Alert is automatically ON during WX SCAN mode.

EXTERNAL SPEAKER/MICROPHONE JACK

Your LXT600 Series can be used with an optional external speaker/microphone or headset, freeing your hands for other tasks. To use an optional speaker / microphone or headset:

- Insert the plug(s) into the **SPK/MIC** jacks.
- Place the earbud into your ear, and adjust the mic into your desired position.



Note : You can charge a rechargeable NiMH battery pack thru the CHG Jack.

TROUBLESHOOTING GUIDE

PROBLEM	SOLUTION
No Power	- Check battery installation and/or replace batteries.
Cannot Receive Messages	- Confirm the radios have the same channel settings. - Make sure that you are within range of the other transceivers. - Buildings and other structures may interfere with your communication.
Radio is not responding to button presses	- Make sure key lock is not on (<i>See Keypad Lock</i>). - Radio might need to be reset. Turn radio off then on.
Display is dim	- Recharge or replace batteries.
Charger not functioning	- Contacts on the bottom of the radio may require cleaning. - Ensure the outlet where the charger is plugged in is functioning properly. - Check that the battery pack is installed in the radio properly.

USE AND CARE

1. Use a soft damp cloth to clean the radio.
2. **Do not** use alcohol or cleaning solutions to clean the radio.
3. **Do not** immerse the radio in water.
4. Dry the radio with a dry lint-free cloth should it get wet.
5. Turn off the radio and remove the batteries during long-term storage.

If you have a problem which you believe requires service, please call first and speak with a service technician at 816-241-8500. Many problems can be remedied over the phone without returning the unit for service.

SPECIFICATIONS

Channels 36 **GMRS/FRS** Channels +121 **Privacy Codes**
10 **NOAA Weather (WX) Band Channels**
Operating Frequency UHF 462.5500 ~ 467.7125 **MHz**
Power Source 3 AAA Alkaline or 3.6V Rechargeable NiMH battery pack

GMRS/FRS FREQUENCY CHART (MHz)

CH. No	CH. Freq.	CH. No	CH. Freq.	CH. No	CH. Freq.
1	462.5625	13	467.6875	25	
2	462.5875	14	467.7125	26	
3	462.6125	15	462.5500	27	
4	462.6375	16	462.5750	28	
5	462.6625	17	462.6000	29	
6	462.6875	18	462.6250	30	
7	462.7125	19	462.6500	31	
8	467.5625	20	462.6750	32	
9	467.5875	21	462.7000	33	
10	467.6125	22	462.7250	34	
11	467.6375	23		35	
12	467.6625	24		36	

* Channels 8-14 are low-power FRS license free channels

NOAA WEATHER (WX) RADIO FREQUENCY CHART (MHz)

CH. No	CH. Freq.	CH. No	CH. Freq.
1	162.550	6	162.500
2	162.400	7	162.525
3	162.475	8	161.650
4	162.425	9	161.775
5	162.450	10	163.275

* Channel 8,9 and 10 are designated Canadian Marine Frequencies

PRIVACY CODES FREQUENCY CHART (Hz)

Code	Freq.	Code	Freq.	Code	Freq.	Code	Freq.	Code	Freq.
1	67.0	9	91.5	17	118.8	25	156.7	33	210.7
2	71.9	10	94.8	18	123.0	26	162.2	34	218.1
3	74.4	11	97.4	19	127.3	27	167.8	35	228.7
4	77.0	12	100.0	20	131.8	28	173.8	36	233.6
5	79.7	13	103.5	21	136.5	29	179.9	37	241.8
6	82.5	14	107.2	22	141.3	30	186.2	38	250.3
7	85.4	15	110.9	23	146.2	31	192.8		
8	88.5	16	114.8	24	151.4	32	203.5		

Note: Privacy codes can be programmed for use on Channels 1-22 only

ACCESSORIES ORDER FORM

Please send Money Order or fill in Visa/MasterCard information and mail to the address below. Please **DO NOT** send cash or checks. Make Money Order payable to Midland Radio Corporation.

Name: _____
Address: _____
City: _____ **State:** _____ **Zip Code:** _____
Tel: _____ **Email:** _____
CC#: _____ **Type:** _____ **Exp.:** _____

Qty	Item	Price	Total
	AVP-1	\$19.99	
	AVP-H1	\$49.99	
	AVP-H2	\$49.99	
	AVP-H3	\$39.99	
	AVP-H4	\$39.99	
	AVP-H5	\$39.99	
	AVP-H7	\$39.99	
	AVP-H8	\$39.99	
	AVP-12	\$39.99	
	TH1	\$39.99	
	TH2	\$99.99	
	TH3	\$29.99	
	TH4	\$109.99	

Mail To:
Midland Radio Corporation
Consumer Dept.
5900 Parretta Drive
Kansas City, MO 64120

Or Call 816.241.8500.

To order online go to
www.midlandradio.com

Sub-Total _____
Tax (MO, FL, WA only) _____
S & H \$14.95

(Applies to Domestic U.S. only. For Hawaii, Alaska, and Puerto Rico S&H will be \$36.25 for 1lb and \$64.25 for 2lbs or more).

Total \$ _____

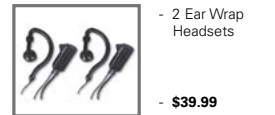
ACCESSORIES

Accessories can be purchased at www.midlandradio.com or by filling in the form on the following page and mailing it to the address on the form.

AVP-1



AVP-H4



AVP-H1



AVP-H5



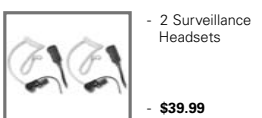
AVP-H2



AVP-H7



AVP-H3



AVP-H8



TACTICAL HEADSETS

TH1



TH2



TH3



TH4



AVP-12

