



**MOTOROLA**  
intelligence everywhere™



## Professional Series Two-Way Radios and Accessories

**HT750™** Low Band  
VHF  
UHF

**HT1250™** Low Band  
VHF  
UHF

**HT1250-LS+™** VHF  
UHF  
200 MHz  
700 MHz

**HT1550-XLS™** VHF  
UHF



## *Motorola Two-Way Radios: The Choice of Professionals*

To succeed in today's fast-moving business world, you have to constantly explore new opportunities...push past barriers...and move faster and farther than your competition. You also need communication tools that can keep up the pace – and give you immediate, dependable access to the right people and information. That's the power of two-way radio.



Efficient and cost-effective, two-way radio helps maximize your productivity so you can get the job done. By simply pressing a button, you can connect with one, ten, or more people instantly. And when you choose a Motorola radio, you know you're getting a tool designed and built to meet your needs as a professional.

# HT750 PORTABLE RADIO

Available in Low Band, VHF and UHF  
Operates on Conventional Systems



## **HT750: The Practical Radio**

The HT750™ radio is the affordable solution for professionals who require a rugged and reliable radio to stay in contact. This practical radio can easily help increase productivity by keeping users communicating, while allowing them to concentrate on the job at hand. And with Motorola's unique X-pand™ technology, audio quality is clean and crisp even in noisy environments. With the HT750 radio, communication couldn't be easier.

### **4 or 16 Channels**

#### **Programmable Emergency Button**

Sound alarm or alert  
dispatcher in an  
emergency situation

#### **X-Pand Voice Compression**

Crisper, clearer audio quality

#### **3 Programmable Side Buttons**

Easy access to  
favorite features

#### **Adjustable Power Levels**

Saves battery life

#### **Priority Channel Scan**

Frequently scan higher  
priority channels

#### **Monitor/Permanent Monitor**

Allows continuous  
channel monitoring

#### **Repeater Talkaround**

Unit-to-unit communications  
bypassing the repeater



## **HT750 Features:**

- **Small, Lightweight and Durable**
- **12.5/25 kHz Switchable Channel Spacing**
- **LED Battery Status Indicator**
- **Telephone Interconnect Capable**
- **Option Board Capabilities**

### **Internal VOX**

Handsfree operation  
with headset

### **Escalart™ Call Features**

Ensures important signals  
are heard

### **Quik Call II™ and MDC1200 Signaling**

Send and receive information in  
a variety of ways, including:

- **Push-to-talk ID (Encode)**  
Identify your outgoing calls
- **Selective Call (Decode)**  
Receive a call from a specific  
group or individual
- **Call Alert (Decode)** Receive  
alerts of incoming calls when  
you're a short distance away  
from your radio
- **Radio Check (Decode)** Lets  
others check your radio status
- **Emergency (Encode)** Sounds  
an alarm or alerts dispatcher  
in urgent situations
- **Selective Radio Inhibit  
(Decode)** Allows system  
owner to disable stolen or  
missing radios

# HT1250 PORTABLE RADIO

Available in Low Band, VHF and UHF  
Operates on Conventional Systems



## HT1250: The Versatile Radio

The HT1250™ portable radio is an essential tool for growing organizations because of its unique versatility. The radio offers a full menu of advanced signaling features, including paging or calling selective radios or groups. Users can store information such as phone numbers, call lists and radio IDs for easy access. And with Motorola's unique X-Pand™ technology, audio clarity is superb—even in noisy surroundings. The large LCD display is extremely helpful in large communication networks and critical situations. The radio of choice is the HT1250 portable. It's the radio that changes with your needs.

**X-Pand Voice Compression**  
Crisper, clearer audio quality

**6 Programmable Buttons**  
Easy access to favorite features

**Adjustable Power Levels**  
Saves battery life

**Dual Priority Scan**  
Frequently scan higher priority channels

**Repeater Talkaround**  
Unit-to-unit communications bypassing the repeater

**Telephone Interconnect Capable**  
Make and receive phone calls with the radio

**Front Panel Programmable Phone list**  
Easily store and retrieve favorite phone numbers



(Available in both limited and full keypad)

## 128 Channels (16 Zones)

**Emergency Button**  
Sound alarm or alert dispatcher in an emergency situation

**Escalator™ Call Features**  
Ensures important signals are heard

**Internal VOX**  
Handsfree operation with headset

**14-Character Alphanumeric Display with User-Friendly Icons**  
Information is clear and easy to read

**Control Buttons**  
Menu, navigation, and exit functions

**Quik Call II™ and MDC1200 Signaling**  
Send and receive information in a variety of ways, including:

- **Push-to-talk ID (Encode/Decode)**  
Identify your outgoing calls and incoming callers
- **Selective Call (Encode/Decode)**  
Send and receive a call from a specific group or individual
- **Call Alert (Encode/Decode)**  
Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when you're a short distance away from your radio
- **Radio Check (Encode/Decode)**  
Learn whether another user's radio is activated, and let others check your radio status
- **Emergency (Encode)**  
Sounds an alarm or alerts dispatcher in urgent situations
- **Selective Radio Inhibit (Decode)**  
Allows system owner to disable stolen or missing radios

## HT1250 Features:

- **Small, Lightweight and Durable**
- **12.5/25 kHz Switchable Channel Spacing**
- **Alarm Clock**
- **Option Board Capabilities**

# HT750 and HT1250

## Specifications

### General Specifications

	Low Band	VHF	UHF
HT750 Channel Capacity	4 or 16		
HT1250 Channel Capacity	128		
Power Supply	Rechargeable battery 7.5V		
Dimensions: H x W x D With NiMH High Capacity Battery With impres NiMH Battery With impres NiMH FM Battery With impres Li-ion Battery	5.40 in x 2.26 in x 1.50 in (137mm x 57.5mm x 37.5 mm) 5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40 mm) 5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40 mm) 5.40 in x 2.26 in x 1.30 in (137mm x 57.5mm x 40 mm)		
Weight: With NiMH High Capacity Battery With impres NiMH Battery With impres NiMH FM Battery With impres Li-ion Battery	15.0 oz. (420g) 17.5 oz. (488g) 17.5 oz. (488g) 12.8 oz. (358g)		
Average Battery Life @ 5/5/90 Duty Cycle*:	<b>Low Power</b>	<b>High Power</b>	<b>Low Power</b> <b>High Power</b>
With NiMH High Capacity Battery	11 hrs	8 hrs	11 hrs   8 hrs
With impres NiMH Battery	17 hrs	11 hrs	17 hrs   13 hrs
With impres NiMH FM Battery	16 hrs	10 hrs	16 hrs   13 hrs
With impres Li-ion Battery	18 hrs	11 hrs	18 hrs   14 hrs
FCC description	AZ489FT3794 (136-174 MHz) AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz) AZ489FT1625 (29.7-42 MHz, 42-50 MHz)		

### Transmitter

Specifications	Low Band	VHF	UHF
Frequencies	29.7–42 MHz 35–50 MHz	136–174 MHz	403–470 MHz 450–512 MHz
Power Output	1–6 W	1–5 W	1–4 W
Frequency Stability (-30° C to +60° C, +25° Ref.)	±10 ppm	±5 ppm @ 25 kHz ±2.5 ppm @ 12.5 kHz	
Modulation Limiting	+5.0 @ 20 kHz	±2.5 @ 12.5 kHz/±4.0 @ 20 kHz/ +5.0 @ 25 kHz	
Spurs/Harmonics	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Channel Spacing	20/25 kHz	12.5/20/25 kHz	
FM Hum & Noise	-40 dB typical		
Adjacent Channel Power	-60 dB @ 12.5, -70 dB @ 25 kHz		
Audio Response (300 – 3000 Hz)	+1 to -3 dB		
Audio Distortion	3%		
FM Modulation	25 kHz 16KOF3E	125 kHz   2530 kHz 11KOF3E   16KOF3E	125 kHz   25 kHz 11KOF3E   16KOF3E

### Environmental Specifications

Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +85° C
Humidity	95% RH @ 8 Hr.
ESD	IEC 801-2 KV
Water Intrusion	IP54

### Receiver

Specifications	Low Band	VHF	UHF
Frequencies	29.7–42 MHz 35–50 MHz	136–174 MHz	403–470 MHz 450–512 MHz
Hum and Noise	-45 dB @ 20/25 kHz	-45 dB @ 12.5 kHz, -50 db @ 25 kHz	
Sensitivity (12 dB SINAD) EIA	.30 µV	.25 µV	
Sensitivity (20 dB SINAD) ETS	.50 µV		
HT750 Channel Spacing	20/25 kHz	12.5/20/25 kHz	
HT1250 Channel Spacing	20/25 kHz	12.5/15/20/25/30 kHz PLL Steps 2.5, 3.125 kHz	
Intermodulation	70 dB		
Adjacent Channel Selectivity	60 dB @ 12.5 kHz/70 dB @ 25 kHz		
Spurious Rejection	70 dB		
Rated Audio	0.5 W		
Audio Distortion @ Rated Audio	3% typical		
Audio Response (300 – 3000 Hz)	+1 to -3 dB		
Conducted Spurious Emission FCC Part 15	-57 dBm < 1 GHz -47 dBm > 1 GHz		

### Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	2	502.2	1,2	502.3	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

### Factory Mutual Approvals

The HT Series is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option, and battery.



# HT1250•LS<sup>+</sup> PORTABLE RADIO

Available in VHF, UHF, 200 MHz and 700 MHz  
Operates on Conventional, LTR<sup>®</sup> and PassPort<sup>®</sup> Systems



## HT1250•LS<sup>+</sup>: The Intelligent Radio

A unique combination of high-level features plus the exceptional versatility of trunking make the HT1250•LS<sup>+</sup> portable radio a smart choice for your business communications. The HT1250•LS<sup>+</sup> incorporates LTR<sup>®</sup> trunking capabilities – providing a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity. The HT1250•LS<sup>+</sup> also offers innovative PassPort<sup>®</sup> trunking. Ideal for users with growing communications needs, PassPort includes all the advantages of LTR<sup>®</sup> trunking plus:

- Wide Area Coverage, Seamless Roaming – Automatic switching between networked PassPort sites lets you maintain constant communication over long distances without touching a button
- Exceptional Audio Quality – Received Signal Strength Indicator (RSSI) communication technology utilizes one of the strongest signals available, giving you optimal sound quality
- Superior System Access – Automatic site registration/deregistration reduces busy channels and enhances system efficiency
- Efficient Channel Expansion – Direct frequency assignment allows you to add channels and sites over the air without taking radios out of service
- Electronic Serial Number Protection – Keeps system resources available by helping to prevent unauthorized radio cloning
- Increased Flexibility – Access privileges by Mobile Identification Number\*\* (MIN) allows radios to be directed to specific sites or talkgroups.

\*\*Optional PassPort feature

**X-Pand™ Voice Compression**  
Crisper, clearer audio quality

**7 Programmable Buttons**  
Easy access to favorite features

**Adjustable Power Levels**  
Saves battery life

**Dual Priority Scan**  
Frequently scan higher priority channels

**Repeater Talkaround**  
Unit-to-unit communications by passing the repeater

**Telephone Interconnect Capable**  
Make and receive phone calls with the radio

**Front Panel Programmable Phone list**  
Easy store and retrieve favorite phone numbers

**Selectable Scanning**  
Scan only the transmissions you want to hear.



(Available in both limited and full keypad)

**16 or 32 Conventional Channels**

**Emergency Button**  
(Conventional Mode only)  
Sound alarm or alert dispatcher in an emergency situation

**Escalert™ Call Features**  
Ensures important signals are heard

**Internal VOX**  
Handsfree operation with headset

**14-Character Alphanumeric Display with User-Friendly Icons**  
Information is clear and easy to read

**Control Buttons**  
Menu, navigation, and exit functions

**15 Trunked Zones with up to 16 Talkgroups per Zone (LTR and PassPort)**

**MDC1200 Signaling (Encode/Decode) Features on Conventional and LTR Zones\***

- Caller ID – Identifies incoming callers
- Selective Call – Lets you call a specific group or individual
- Call Alert – Notifies unavailable users that you're trying to reach them
- Radio Check – Tells you whether another user's radio is activated
- Message – Allows you to send and receive pre-programmed messages

**Quik Call II™ on Conventional Zones\***

Send and receive information via tone or digital signals

\*Only available on certain models. Check with your Motorola Authorized Dealer for availability.

## HT1250•LS<sup>+</sup> Features:

- **Small, Lightweight and Durable**
- **12.5/20/25 kHz Switchable Channel Spacing**
- **Alarm Clock**
- **Option Board Capabilities**
- **PassPort Selective Call or Call Alert\***  
Lets you initiate or receive a private call or a private page from a specific user
- **Home Channel Revert**  
Automatic, one-button return to a preferred talkgroup or channel
- **User-Defined Lists**  
Change scan, phone, and call lists on the fly
- **Voice Storage**  
Record important messages or personal memos
- **Roam Request\***  
Optional manual initiation of roaming function
- **Roam Lock\***  
Optional manual lock of the radio onto a site

## Specifications

### General Specifications

	VHF	200 MHz	UHF	700 MHz
<b>Channel Capacity</b>				
Trunking zone capacity	15	15	15	15
Trunking talkgroup capacity (per zone)	16	16	16	16
Conventional channel capacity	16 or 32*	16	16 or 32*	16
<b>Power Supply</b>	Rechargeable battery 7.5V			
<b>Dimensions: H x W x D</b>				
With NiMH High Capacity Battery	5.40 in x 2.26 in x 1.50 in (137mm x 57.5mm x 37.5mm)			
With impres NiMH Battery	5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40mm)			
With impres NiMH FM Battery	5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40mm)			
With impres Li-ion Battery	5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40mm)			
<b>Weight:</b>				
With NiMH High Capacity Battery	15.0 oz. (420g)			
With impres NiMH Battery	17.5 oz. (488g)			
With impres NiMH FM Battery	17.5 oz. (488g)			
With impres Li-ion Battery	12.8 oz. (358g)			
<b>Average Battery Life @ 5/5/90 Duty Cycle*:</b>	<b>Low Power</b>	<b>High Power</b>	<b>Low Power</b>	<b>High Power</b>
With NiMH High Capacity Battery	11 hrs	8 hrs	11 hrs	8 hrs
With impres NiMH Battery	17 hrs	11 hrs	17 hrs	13 hrs
With impres NiMH FM Battery	16 hrs	10 hrs	16 hrs	13 hrs
With impres Li-ion Battery	18 hrs	11 hrs	18 hrs	14 hrs
<b>FCC Description</b>	AZ489FT3794 (136-174 MHz) ABZ99FT3080 (217-218/219-222 MHz) AZ489FT4826 (403-470 MHz) AZ489FT4834 (450-512 MHz) ABZ99FT5000 (746-747/762-764/776-777/792-794 MHz)			

### Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	2	502.2	1,2	502.3	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1,2	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1	516.4	1,4

### Environmental Specifications

Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +85° C
Humidity	95% RH @ 8 Hr.
ESD	IEC 801-2 KV
Water Intrusion	IPX4

### Receiver

Specifications	VHF	200 MHz	UHF	700 MHz
<b>Frequencies</b>	136-174 MHz	217-218 MHz 219-220 MHz 220-222 MHz	403-470 MHz 450-512 MHz	746-747 MHz 762-764 MHz
<b>Hum and Noise</b>	-45 dB @ 12.5 kHz -50 dB @ 25 kHz	-40 dB	-45 dB @ 12.5 kHz -50 dB @ 25 kHz	-40 dB
<b>Sensitivity (12 dB SINAD) EIA</b>	.25 µV	0.3 µV (0.25 µV typical)	.25 µV	0.35 µV (0.3 µV typical)
<b>Sensitivity (20 dB SINAD) ETS</b>	.50 µV		.50 µV	
<b>Channel Spacing</b>	12.5/20/25 kHz	12.5 kHz	12.5/20/25 kHz	12.5 kHz
<b>Intermodulation</b>	70 dB	70 dB	70 dB	70 dB
<b>Adjacent Channel Selectivity</b>	60 dB @ 12.5 kHz/ 70 dB @ 25 kHz/ 40 dB (TIA 603-A)	60 dB (TIA 603)	60 dB @ 12.5 kHz/ 70 dB @ 25 kHz/ 40 dB (TIA 603-A)	60 dB (TIA 603) 40 dB (TIA 603-A)
<b>Spurious Rejection</b>	70 dB	70 dB	70 dB	70 dB
<b>Rated Audio</b>	0.5 W	0.5 W	0.5 W	0.5 W
<b>Audio Distortion @ Rated Audio</b>	3% typical	3% typical	3% typical	3% typical
<b>Audio Response</b>	+1 to -3 dB	+1 to -3 dB	+1 to -3 dB	+1 to -3 dB
<b>Conducted Spurious Emission FCC Part 15</b>	-57 dBm < 1 GHz -47 dBm > 1 GHz	-57 dBm < 1 GHz -47 dBm > 1 GHz	-57 dBm < 1 GHz -47 dBm > 1 GHz	-57 dBm < 1 GHz -47 dBm > 1 GHz

### Transmitter

Specifications	VHF	200 MHz	UHF	700 MHz
<b>Frequencies</b>	136-174 MHz	217-218 MHz (Talkaround) 219-220 MHz 220-221 MHz (Talkaround) 221-222 MHz	403-470 MHz 450-512 MHz	776-777 MHz 792-794 MHz 746-747 MHz (Talkaround) 762-764 MHz (Talkaround)
<b>Power Output</b>	1-5 W	1 W or 5 W	1-4 W	1 W or 2.5 W
<b>Frequency Stability (-30° C to +60° C, +25° Ref.)</b>	±5 ppm @ 25 kHz ±2.5 ppm @ 12.5 kHz	±2.5 ppm	±5 ppm @ 25 kHz ±2.5 ppm @ 12.5 kHz	±1.5 ppm
<b>Modulation Limiting</b>	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz	±2.5 kHz	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz	±2.5 kHz
<b>Conducted and Radiated Emissions</b>	-36 dBm < 1 GHz -30 dBm > 1 GHz	-16 dBm	-36 dBm < 1 GHz -30 dBm > 1 GHz	-16 dBm (except -40 dBm from 1559 to 1610 MHz)
<b>Channel Spacing</b>	12.5/20/25 kHz	12.5 kHz	12.5/20/25 kHz	12.5 kHz
<b>FM Hum &amp; Noise</b>	-40 dB typical	-40 dB typical	-40 dB typical	-40 dB typical
<b>Adjacent Channel Power</b>	-60 dB @ 12.5 -70 dB @ 25 kHz	-60 dB	-60 dB @ 12.5 -70 dB @ 25 kHz	-60 dB
<b>Audio Response</b>	+1 to -3 dB	+1 to -3 dB	+1 to -3 dB	+1 to -3 dB
<b>Audio Distortion</b>	3% typical	3% typical	3% typical	3% typical
<b>FM Modulation</b>	11K0F3E (12.5 kHz) 16K0F3E (25 kHz)	11K0F3E	11K0F3E (12.5 kHz) 16K0F3E (25 kHz)	11K0F3E
<b>Adjacent Channel Coupled Power</b>	N/A	N/A	N/A	Complies with 47 CFR 27.53 (d) (1)

### Factory Mutual Approvals

The HT Series is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option, and battery.

\* Only available on certain models. Check with your Motorola Authorized Dealer for availability.

# HT1550•XLS PORTABLE RADIO

Available in VHF and UHF  
Operates on Conventional and LTR® Systems

## HT1550•XLS: The Proficient Radio

Users who require the highest levels of functionality will find this exceptional, Professional Series radio to be an invaluable tool. The HT1550•XLS™ portable offers a wide range of advanced features to handle even the most challenging and diverse communication needs. Dual mode operation capability allows users to switch between LTR® and conventional modes at the touch of a button—and makes migration easy for growing businesses. MDC signaling capabilities let you control transmissions with extraordinary precision. An extra-large alphanumeric display with user-friendly icons is designed to make information clear and understandable at a glance. The HT1550•XLS radio delivers all the communications power and control you need to maximize your efficiency and productivity on the job.

### 7 Programmable Buttons

Easy access to favorite features

- **System/All Group/Auto Group Selective Scanning**  
Define the frequency and type of transmissions your radio scans
- **Multi-Home Channel Revert**  
Automatic, one-button return to a preferred channel
- **Home Channel Revert Autokey (LTR mode)**  
Automatically access your favorite talkgroup and send a PTT ID to a group of radios
- **User-Defined List**  
Change scan, phone, and call lists on the fly

### Telephone Interconnect

Place and receive phone calls using the radio

### Front Programming Capable

Program frequencies, PL codes and more using the keypad

### Voice Storage with Answering Machine Mode

Answers incoming calls with a personalized greeting when you're unable to answer your calls, and records voice message from other users



## MDC1200™ Signaling Features (Conventional and LTR Modes)

- **Push-to-talk (PTT) ID (Encode/Decode)**  
Identify your outgoing calls and incoming callers
- **Selective Call (Encode/Decode)**  
Send or receive calls from a specific group or individual
- **Call Alert (Encode/Decode)**  
Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when a short distance away from your radio
- **Radio Check (Encode/Decode)**  
Learn whether another user's radio is activated, and let others check your radio status
- **Emergency† (Encode/Decode)**  
Sounds an alarm or alerts individual user or dispatcher in urgent situations
- **Selective Radio Inhibit (Decode)**  
Allows system owner to disable stolen or missing radios

### Emergency Button†

Sounds alarm or alerts dispatcher in urgent situations

### Up to 160 Conventional Channels

Up to 15 Trunked Zones with 16 Talkgroups Each

### Four-Line Alphanumeric Display with User-Friendly Icons

Identifies trunked zones, talkgroups, and conventional channels

### Control Buttons

Easy management of menu, navigation, and exit functions

### Navigation Button

Scroll through menus and text on the display

### Call Stacking

Tracks Call Alerts and Selective Calls received while you're on another call or unable to answer your call



## Specifications

### General Specifications

	VHF	UHF
Channel Capacity	Trunking zone capacity: 15 Trunking talkgroup capacity: 16 Conventional channel capacity: 160	
Power Supply	Rechargeable battery 7.5V	
Dimensions: H x W x D With NiMH High Capacity Battery With impres NiMH Battery With impres NiMH FM Battery With impres Li-ion Battery	5.98 in x 2.26 in x 1.50 in (152mm x 57.5mm x 37.5mm) 5.98 in x 2.26 in x 1.60 in (152mm x 57.5 x 40mm) 5.98 in x 2.26 in x 1.60 in (152mm x 57.5 x 40mm) 5.98 in x 2.26 in x 1.60 in (152mm x 57.5 x 40mm)	
Weight: With NiMH High Capacity Battery With impres NiMH Battery With impres NiMH FM Battery With impres Li-ion Battery	16.2 oz. (460g) 18.7 oz. (530g) 18.7 oz. (530g) 14.0 oz. (397g)	
Average Battery Life @ 5/5/90 Duty Cycle*:	<b>Low Power</b>	<b>High Power</b>
With NiMH High Capacity Battery	11 hrs	8 hrs
With impres NiMH Battery	17 hrs	11 hrs
With impres NiMH FM Battery	16 hrs	10 hrs
With impres Li-ion Battery	18 hrs	11 hrs
Model Numbers	AAH25KDN9DU8AN	AAH25RDN9DU8AN AAH25SDN9DU8AN
FCC description	AZ489FT3794 (136-174 MHz) AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz)	

### Transmitter

Specifications	VHF	UHF
Frequencies	136-174 MHz	403-470 MHz 450-512 MHz
Power Output	1-5 W	1-4 W
Frequency Stability (-30° C to +60° C, +25° Ref.)	±2.5 ppm	
Modulation Limiting	+2.5 @ 12.5 kHz / ±4.0 kHz @ 20 kHz +5.0 @ 25 kHz	
Channel Spacing	12.5/20/25 kHz	
FM Hum & Noise	-40 dB typical	
Audio Response (0.3 - 3 kHz)	+1 to -3 dB	
Audio Distortion	3%	
Conducted/Radiated Emissions	-66 dBw	
FM Modulation	12.5 kHz 25/30 kHz 11KOF3E 16KOF3E	12.5 kHz 25 kHz 11KOF3E 16KOF3E

### Environmental Specifications

Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +85° C
Humidity	95% RH @ 8 Hr.
ESD	IEC 801-2 KV
Water Intrusion	IP54

### Receiver

Specifications	VHF	UHF
Hum and Noise	-45 dB @ 12.5 kHz/50 dB @ 25 kHz	
Sensitivity (12 dB SINAD) EIA	0.25 µV typical	
Channel Spacing	12.5/20/25 kHz	
Intermodulation per EIA	70 dB	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz/70 dB @ 25 kHz	
Spurious Rejection	70 dB	
Rated Audio	0.5 W	
Audio Distortion @ Rated Audio	3% typical	
Audio Response (0.3 - 3 kHz)	+1 to -3 dB	
Conducted Spurious Emission per FCC Part 15	-57 dBm < 1 GHz -47 dBm > 1 GHz	

### Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	1,2	500.3	1,2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	7,8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

### Factory Mutual Approvals

The HT Series is Factory Mutual approved and Canadian Standard Association approved as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option, and battery.

# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Audio Accessories

### Remote Speaker Microphones (RSM)

- RMN5055A\*** Heavy Duty Remote Speaker Microphone with 3.5mm Audio Jack
- AAHMN9052E\*** Remote Speaker Microphone
- AAHMN9053E\*** Noise-canceling Remote Speaker Microphone with 3.5mm Audio Jack
- HKN9055A** Replacement Cable for Remote Speaker Microphone

The Remote Speaker Microphone is a water-resistant compact unit that allows the user to talk and listen without removing the radio from the belt, case or charger. It has a coiled cord, push-to-talk switch and clothing clip on the back cover.



RMN5055A

### Public Safety Speaker Microphones (PSM)

- AAHMN9054C\*** UHF Public Safety Speaker Microphone (includes UHF 450-470 MHz Antenna, Swivel Clip, Volume Toggle Switch, and 3.5mm Audio Jack)
- AAHMN9057C\*** VHF Public Safety Speaker Microphone (includes VHF 148-174 MHz Antenna, Swivel Clip, Volume Toggle Switch, and 3.5mm Audio Jack)

Public Safety Speaker Microphones are specially designed to help cancel ambient noise during transmission. Coverage is increased with included antenna.

### RSM and PSM Accessories

- AARLN4885B\*** Receive-Only Earbud with Black Coiled Cord and 3.5mm Adapter, for use with HMN3158A, AAHMN9053E, AAHMN9054C and AAHMN9057C
- RLN4941A\*** Receive-Only Earpiece, with 3.5mm Plug, Translucent Tube and Rubber Eartip for use with HMN3158A, AAHMN9053E, AAHMN9054C and AAHMN9057C
- WADN4190A\*** Flexible Ear Receiver with 3.5mm Adapter for use with HMN3158A, AAHMN9053E, AAHMN9054C and AAHMN9057C



WADN4190A

\*Intrinsically safe



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Audio Accessories



AARMN4028A

### **SURVEILLANCE KITS**

#### **RECEIVE ONLY EARPIECE (1-WIRE)**

AARMN4021A\* Beige

AARMN4028A\* Black

#### **EARPIECE WITH MICROPHONE AND PUSH-TO-TALK COMBINED (2-WIRE)**

AARMN4022A\* Beige

AARMN4029A\* Black

#### **EARPIECE WITH MICROPHONE AND PUSH-TO-TALK COMBINED (3-WIRE)**

ENMN4017A\* Beige

ENMN4014A\* Black



ENMN4017A

Surveillance accessories allow the user to privately receive communications with the earpiece and are ideal when environments require discreet communications.

### **SURVEILLANCE KITS WITH EXTENDED-WEAR COMFORT EARPIECE COMFORT EARPIECE WITH MICROPHONE AND PUSH-TO-TALK COMBINED (2-WIRE)**

RLN5315A Black

RLN5316A Beige

These kits include a comfort earpiece with a rubber eartip and clear comfortable acoustic tube. Users hear transmissions clearly, while the clear tube provides a discreet appearance.

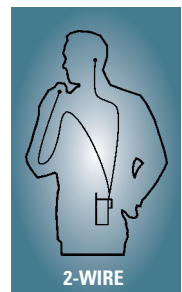


RLN5316A

### **SURVEILLANCE KIT REPLACEMENT ACCESSORIES**

5080370E97 Standard Rubber Eartip, pack of 25, Clear

\*Intrinsically safe







# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Audio Accessories

### COMPLETELY DISCREET EARPIECE

- RLN4922A** Completely Discreet Earpiece Kit; includes Wireless Earpiece, Inductive Neckloop, 6 Spare Batteries and 5 Spare Ear Wax Guards
- RLN4919A** Ear Wax Guards, 5 per pack
- RNN4005A** 1.4V Battery, 6 per pack

Remain discreetly in touch with this miniaturized receiver. All messages received through the user's two-way radio are inductively relayed to the Wireless Earpiece in the user's ear. Inductive Neckloop is easily hidden under the user's clothing for covert operations. Neckloop attaches to the user's Motorola Surveillance Kit, providing completely discreet two-way communications. Security operatives, public safety officials, and private investigators can communicate with ease without any visible equipment. As small as it is, this earpiece offers a full range of audio functions, including automatic squelch, automatic gain control and noise filtering. Must be used in conjunction with a Motorola Surveillance Kit. Just remove the earpiece on any standard 2 or 3-wire Surveillance Kit and plug in the Neckloop for completely discreet communication.



RLN4922A

### FLEXIBLE EAR RECEIVER

- ENMN4013A\*** Flexible Ear Receiver
- 7580372E11** Replacement Foam Ear Cushions

The Flexible Ear Receiver contains a flexible ear-loop and speaker and rests external to the ear. Receive only.



ENMN4013A

### EAR MICROPHONE SYSTEM (EMS)

- BDN6677A\*** Ear Microphone for Standard Noise Levels (up to 95dB), Black
- BDN6678A\*** Ear Microphone for Standard Noise Levels (up to 95dB), Beige
- BDN6641A\*** Ear Microphone for High Noise Levels (up to 105dB)
- 0180305J46** Training CD for Ear Mic and Temple Transducer

### INTERFACE MODULES FOR EAR MICROPHONE SYSTEM

- AARMN4044A\*** Push-To-Talk Only Interface Module
- AARMN4045A\*** Push-To-Talk or Voice-Activated Interface Module (VOX operational only on conventional channel)

This compact unit picks up the voice through bone vibrations in the ear canal. The miniature earpiece leaves the hands free and face unobscured when worn by rescue and hazard protection personnel, who still retain the ability for direct hearing and speaking. For personnel required to wear breathing apparatus, communications with protective masks are as clear as communications without it. And its high speech clarity under noisy environments makes it ideal for use in high-noise situations. Available in PTT or Voice-Activated (VOX). Interface Module required.



BDN6641A

\*Intrinsically safe



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Audio Accessories



NTN1737A

### CommPort: INTEGRATED MICROPHONE/RECEIVER SYSTEM

- NTN1722A\* Integrated Ear Microphone/Receiver System with PTT on Radio Adapter. Includes AAHLN9717A Radio adapter
- NTN1723A\* Integrated Ear Microphone/Receiver System with Palm PTT. Includes AAHLN9717A Radio adapter
- NTN1724A\* Integrated Ear Microphone/Receiver System with Ring PTT. Includes AAHLN9717A Radio adapter
- NTN1737A\* Integrated Ear Microphone/Receiver System with Snap-on-Side PTT. Includes AAHLN9717A Radio adapter
- NNTN4187\* Integrated Ear Microphone/Receiver System with Body PTT. Includes AAHLN9717A Radio adapter

### CommPort: REPLACEMENT PARTS

- NKN6508A Replacement Cable for NTN1722A
- NKN6510A Replacement Palm PTT Cable for NTN1723A
- NKN6512A Replacement Ring PTT Cable for NTN1724A
- NKN6525A Replacement Snap-on-Side PTT Cable for NNTN4187A
- NNTN4188A Replacement Body PTT Cable for NNTN4187A
- NTN8821A CommPort Maintenance Kit; includes replacement ear tubes (pack of 10), windscreens (pack of 2) and microphone seal strips (pack of 10)
- NTN8986A Adhesive Pads for secure attachment to ear (pack of 90)
- NTN8988A Ear Straps for secure attachment to ear (pack of 10)
- RLN5037A Replacement Ear Tubes (pack of 10)



NKN6525A

With the CommPort Integrated/Microphone System, users can speak in a whisper and hear in a crowd. CommPort contains a miniature microphone and receiver that connects to a Motorola two-way radio and fastens securely to the ear. Using the latest in voice processing technology, the CommPort system makes it possible to hear and speak under the most adverse conditions by picking up sound waves as they cross the face, enhancing voice clarity under high noise conditions. The miniature mic that sits on the top of the earpiece picks up the sound waves, cutting through noise and delivering audio without blocking normal hearing. Its variety of push-to-talk options make it ideal for different applications, which include transmitting to firefighters in a burning building, to S.W.A.T. or police in covert situations, or to workers operating in a noisy environment.

\*Intrinsically safe





# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Audio Accessories

### MEDIUM WEIGHT HEADSETS

- AARMN4019A\*** Medium Weight Headset, over-the-head with In-Line PTT and Noise Canceling Swivel Boom Microphone, provides 24dB of noise reduction
- AARMN4032A\*** Medium Weight Headset, over-the-head with Noise Canceling Swivel Boom Microphone; provides 24dB of noise reduction (VOX operational only on conventional channel)
- ENMN4016A\*** Medium duty, behind-the-head Headset with Swivel Boom, Microphone and In-Line PTT, provides 24dB of noise reduction
- RMN4051B** Hardhat Mount Headset; mounts easily to hardhats with slots – provides 22dB of noise reduction; requires RKN4097A adapter cable; hardhat not included
- RKN4097A** Radio Adapter Cable with In-Line PTT for use with RMN4051B



ENMN4016A

### MEDIUM WEIGHT HEADSET REPLACEMENT ITEMS

- 1580376E32** Replacement Cloth Covers for Earseals (1 pair)
- 3280376E35** Replacement O Ring for Windscreen
- 5080548E02** Replacement Windscreen for Boom Microphone
- 7580376E34** Replacement Foam Ear Seals (1 pair)

Medium-weight dual-muff headsets offer high-clarity sound with the additional hearing protection necessary for providing consistent, clear, two-way radio communications in harsh, noisy situations.

*\*Intrinsically safe*



RMN4051B

# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Audio Accessories

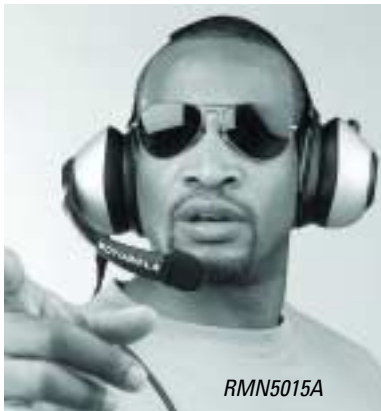
### TACTICAL MEDIUM WEIGHT HEADSETS

- RMN4052B** Tactical Headband Style Headset, Grey; provides 24dB of noise reduction; requires RKN4097A Adapter Cable
- RMN4053B** Tactical Hardhat Mount Headset; mounts easily to hardhats with slots; provides 22dB of noise reduction; requires RKN4097A Adapter Cable; hardhat not included
- RKN4097A** Radio Adapter Cable with In-Line PTT for use with RMN4052A and RMN4053A

Same high-clarity sound and additional hearing protection as our standard Medium Weight Headsets, while including two microphones on the outside of each earcup, which reproduce the ambient sound back into the headset. Harmful sounds are suppressed to a safe level and low sounds are amplified up to 5 times, but never more than 82dB. Includes on/off volume control one earcup.



RMN4052B



RMN5015A

### RACING HEADSET

- RMK5015A** Racing Headset (Requires adapter cable RKN4091A)
- RKN4091A** Adapter Cable

Motorola is the official wireless equipment supplier of the CART® (Championship Auto Racing Teams), so whether your playing field is a racetrack, construction site or other challenging environment you can depend on the comfort and dependability of the Racing Headset.

### HEAVYDUTY HEADSET

- AARMN4020B\*** Push-To-Talk or Voice-Activated Headset with Noise Canceling Boom Microphone; noise reduction rating=24dB (Vox operational only on conventional channel)
- RMN5047A** NFL Style Heavyduty, Single Muff Headset. Similar to the headset worn by coaching staff in the NFL. (Requires adapter AAHLN9716B)

Heavyduty Headsets include Noise Canceling Boom Microphone. The Push-To-Talk switch is located on the earcup.



RMN5047A

\*Intrinsically safe



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Carrying Accessories

### CARRYING CASES

#### HT750 STANDARD MODEL

- HLN9665A* Standard Leather Case with Belt Loop for use with NiCd and NiMH batteries
- HLN9652A* Standard Leather Case with Belt Loop, for use with Li-ion batteries
- HLN9676A* Standard Leather Case with Swivel for use with NiCd and NiMH batteries
- HLN9670A* Standard Leather Case with Swivel for use with Li-ion batteries
- HLN9701B* Nylon Case with Belt Loop with NiCd, NiMH, and Li-ion batteries



#### HT750 KEYPAD MODELS AND ALL HT1250 MODELS

- HLN9689A* Standard Leather DTMF Case with Belt Loop for use with NiCd and NiMH batteries
- HLN9677A* Standard Leather DTMF Case with Belt Loop for use with Li-ion batteries
- HLN9694A* Standard Leather DTMF Case with Swivel for use with NiCd and NiMH batteries
- HLN9690A* Standard Leather Case with Swivel for use with Li-ion batteries
- HLN9701B* Nylon Case with Belt Loop with NiCd, NiMH, and Li-ion batteries



*HLN9694A*

#### HT1250 LIMITED-KEYPAD MODELS

- HLN9946A* Hard Leather Case with Belt Loop for use with NiCd and NiMH batteries
- HLN9945A* Hard Leather Case with Belt Loop, for use with Li-ion batteries
- HLN9998A* Hard Leather Case with Swivel Belt Loop, for use with NiCd and NiMH batteries
- HLN9955A* Hard Leather Case with Swivel Belt Loop, for use with Li-ion batteries
- HLN9701B* Nylon Case with Belt Loop with NiCd, NiMH and Li-ion batteries



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Carrying Accessories

### HT1550•XLS STANDARD MODELS

- HLN9698A** Leather DTMF Case with Belt Loop, for use with NiMH and NiCd batteries
- HLN9695A** Leather DTMF Case with Belt Loop, for use with Li-ion batteries
- HLN9700A** Leather DTMF Case with Swivel, for use with NiMH and NiCd batteries
- HLN9699A** Leather DTMF Case with Swivel, for use with Li-ion batteries
- HLN9701B** Nylon Case with Belt Loop for use with NiCd, NiMH, and Li-ion batteries

A variety of carrying accessories are available for your comfort and convenience. The carrying cases are available in sizes designed to fit your radio and battery and permit audio to be heard clearly. Belt loop and nylon cases feature "D" rings that allow the cases to be attached to a carrying strap. Swivel model cases secure to a belt loop and allow the case to swing freely from side to side. The swivel latch system also allows the radio and case to be removed from the belt loop by simply inverting the case and lifting it up and out of the belt loop.



HLN9701B



NTN8039B

### CARRYING CASE BELT LOOPS

- NTN8039B** 2.5" High-Activity Swivel Belt Loop
- NTN8040B** 3.0" High-Activity Swivel Belt Loop

### BELT

- 4200865599** 1.75" Wide Leather Belt for all Models

### BELT CLIPS

- HLN9714A** Spring Action 2-1/2" Belt Clip
- HLN9844A** Spring Action 2" Belt Clip

### CARRYING STRAP

- NTN5243A** Shoulder Carrying Strap allows easy carrying of radio in a case when not wearing a belt

### WATERPROOF BAG

- HLN9985B** Waterproof Bag includes large carrying strap



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Carrying Accessories

### MISCELLANEOUS ACCESSORIES

#### ASSISTIVE TURNING KNOBS

RLN4890A Assistive Turning Knobs

If your job requires you to wear large gloves, or if you have mobility or dexterity limitations, you will appreciate this added feature; set of two specially designed knobs for volume control and channel changing.



RLN4890A



RLN4943A

#### UNIVERSAL HOLDER

RLN4943A Universal Holder with Gooseneck Bracket provides flexible mounting Solutions for portable radios

RLN4945A Universal Holder with Gooseneck Bracket with Wheelchair Quick Release Assembly

RLN4944A Wheelchair Quick Release Bracket

#### CHESTPACK

HLN6602A Universal Chest Pack with Radio Holder and Velcro Secured Pocket, (not for use with HT1250•LS<sup>+</sup>, 700 MHz models)

1505596Z02 Replacement Strap for HLN6602A



HLN6602A



RLN4570A

#### BREAK-A-WAY CHEST PACK

RLN4570A Break-A-Way Chest Pack

1505596Z02 Replacement Strap for RLN4570A

All of the same features as the original Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure. Perfect for railroads, manufacturing locations, construction sites, and anywhere safety is a concern.

#### RadioPAK™

RLN4815A RadioPAK Radio/Utility Case

4280384F89 Universal RadioPAK Belt Lengthener; fits waists large that 40"



RLN4815A

It's different from all other holders or cases: more comfortable, more useful and stylish. Worn around the waist, it holds two-way, iDEN® portables or cellular phones right at hand. Includes a separate 6"x 8" zippered pouch for other on-the-job necessities. Adjustable nylon weave belt fits both men and women.

# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Batteries & Chargers

### BATTERIES

#### impres™ BATTERIES

HNN4001A	1900mAh, 7.5V
HNN4002A	1800mAh, 7.5V, Intrinsically safe
HNN4003A	2000mAh, 7.2V

impres™ batteries, when used with an impres charger, provide automatic/adaptive reconditioning, end of service display, and other advanced features. Data is stored in the battery and communicated to the charger via a unique communication protocol which is designed to automatically maximize talk time and optimize battery cycle life.

#### PREMIUM NICKEL CADMIUM (NiCd)

HNN9011AR	1200 mAh, 7.5V, Intrinsically Safe
HNN9012AR	1300 mAh, 7.5V

#### PREMIUM NICKEL METAL HYDRIDE (NiMH)

HNN9008AR	1500 mAh, 7.5V
HNN9009AR	1900 mAh, 7.5V
HNN9010AR	1800 mAh, 7.5V, Intrinsically Safe
HNN9003AR	1200 mAh, 7.5V (for use with Bluetooth™ Remote Speaker Microphone)

#### PREMIUM LITHIUM ION (Li-ion)

HNN9013AR	1500 mAh, 7.5V
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#### POWER NICKEL METAL HYDRIDE (NiMH)

WPNN4045AR	1200 mAh, 7.5V
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Motorola Original Batteries are ruggedly designed for lasting durability and are system tested with Motorola two-way radios to ensure optimum performance. We offer various chemistry and capacity alternatives, allowing the user to select the ideal battery for his or her needs. NiCd is best suited for extreme-temperature operation, and provides the maximum number of charge/discharge cycles. Li-ion batteries offer extended duty cycles—providing more talk time per shift.



HNN4001A



HNN9008AR



AAHTN3000D

#### SINGLE AND SIX-UNIT CHARGERS

AAHTN3000D	120V Single Unit Rapid Rate Charger (US plug)
AAHTN3003D	120V Six-Unit Rapid Rate Charger
NLN7967A	Wall Mount Kit for Six-Unit Charger
HLN9793A	Charger Insert Spacer –compatible with “A” version Chargers only
HLN9794B	Charger Insert Spacer –compatible with “B”, “C” and “D” version Chargers

Single and Multi-Unit Chargers can rapidly charge batteries on or off the radio in one to three hours. These tri-chemistry chargers feature rapid, trickle, and maintenance modes. The maintenance mode “revert to rapid” feature ensures batteries remain fully charged even when left on the charger for extended periods of time. Multi-unit Chargers can be wall or rack mounted. All chargers are specifically designed to meet the requirements of batteries manufactured by Motorola.



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Chargers

### *impres™ SMART ENERGY SYSTEM*

WPLN4182A *impres™* Single Unit Charger, 110V

### *impres™ MULTI-UNIT CHARGER*

WPLN4187A *impres™* Multi-Unit Charger, 110V

NLN7967A Wall Mount for Multi-Unit Charger

The *impres™* smart energy system ensures maximum talk-time and optimized battery cycle life through the use of its advanced charging algorithm and automatic reconditioning features. The smart energy system reconditions *impres™* batteries when they need it, automatically, keeping them in peak condition. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring the damaging heat build-up which can rob batteries of cycle life. In addition, batteries left on the charger are kept fully charged so they are always ready when you need them. The *impres™* system reconditions batteries when they need it based on their usage pattern. Talk time and cycle life are optimized and the need for manual maintenance programs are reduced or eliminated. This rapid-rate tri-chemistry charging system will also charge existing legacy batteries.

### *impres™ MULTI-UNIT CHARGER WITH CHARGER DISPLAY MODULES*

WPLN4192A *impres™* Multi-Unit Charger with Charger Display Modules, 110V

NLN7967A Wall Mount for Multi-Unit Charger

Charger Display Modules provide powerful “real time” analyzing information for *impres™* batteries, including current charge status; current battery mAh; percent rated capacity, battery voltage; battery kit number; battery serial number; battery chemistry; time remaining to charge complete; forecast number of cycles to next reconditioning; and more.



WPLN4182A



WPLN4187A



WPLN4192A

### *impres™ INDIVIDUAL CHARGER DISPLAY MODULE*

RLN5382A Charger Display Module for *impres™* Multi-Unit Charger

These modules are designed to be retrofittable with the standard *impres™* Multi-Unit Charger. Up to six modules can be purchased per charger, one for each charging pocket. Includes detailed installation instructions.



RLN5382A

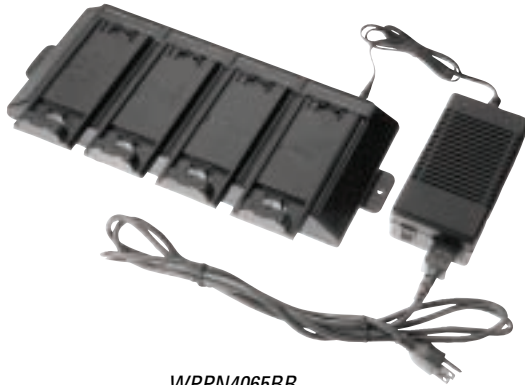
### *impres™ CD*

9880384R88 *impres™* CD

This CD provides an interactive guide to the *impres™* Charging System and provides benefit statements as well as application examples.

# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Chargers



*WPPN4065BR  
Shown With Optional  
Adapter Plates*



*RLN4814A*

### **MOTOROLA CONDITIONING CHARGERS (MCC)**

<i>WPLN4107BR</i>	MCC Kit, 110V AC (includes both Base Charger Unit and 7V Adapter Plate)
<i>WPLN4106BR</i>	MCC Kit, 220V AC (includes both Base Charger Unit and 7V Adapter Plate)
<i>WPPN4065BR</i>	Multi Unit Conditioning Charger, Four-Station Base, 110V (order Adapter Plate separately)
<i>WPPN4082BR</i>	7V Adapter Plate Only
<i>3080384G15</i>	Cigarette Lighter Adapter Cord
<i>RLN4814A</i>	Vehicular Mounting Bracket and Hard-wire Cable for Single Unit Motorola Conditioning Charger
<i>3080384M21</i>	DC Hard Wire Cable, for vehicular installation (included in RLN4814A)

The Motorola Conditioning Charger utilizes negative pulse charging technology that will help extend battery life and enhance battery operation. It will safely condition and charge your specified NiCd and NiMH batteries in approximately one to two hours. The MCC controls heat buildup due to its charging and termination algorithms, and the maintenance mode allows batteries to be safely left on the charger for extended periods of time. And now there is an Instant Fault Detection (IFD) feature which detects faulty radio batteries in seconds, then notifies the user that the battery will not operate at peak performance. Optional accessories are available allowing these chargers to be used in both AC and DC environments, providing optimal charging flexibility.



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Chargers

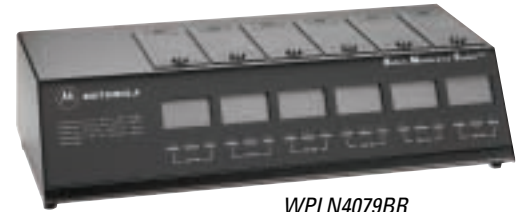
### BATTERY MAINTENANCE SYSTEM <sup>PLUS</sup> (BMS <sup>PLUS</sup>)

#### INCREASE THE USEFUL LIFE OF YOUR BATTERIES

WPLN4079BR	Six-Station, 110V AC, 50/60 Hz
WPLN4080BR	Six-Station, 230V AC, 50/60 Hz
WPPN4085AR	BMS <sup>plus</sup> field Upgrade Kit for WPLN4079AR, WPLN4080AR and WPLN4081AR; allows these units to support Li-ion battery chemistries.
NDN4005B	Three-Station, 110V AC, 50/60 Hz (does not support Li-ion or 3-cell batteries)

Using interchangeable battery adapters (sold separately), the BMS<sup>plus</sup> is capable of charging and discharging, analyzing, conditioning, and cycle testing batteries. It supports NiCd, NiMH, and Li-ion battery chemistries (Li-ion on six station models only) and tracks battery voltage and capacity (mAh). The BMS<sup>plus</sup> offers a 3-year warranty. Its easy-to-use design supports hundreds of 2-way, cellular, and camcorder batteries. Includes serial printer\* port (RS-232)

*\*Compatible with the STAR Micronics SP200 Series printers (and other printers with STAR emulation); available from any STAR Micronics distributor.*



WPLN4079BR

### BMS <sup>PLUS</sup> ADAPTERS

WPPN4079AR	Adapter compatible with both NiCd and NiMH batteries
WPPN4080AR	Adapter compatible with NiCd, NiMH, and Li-ion batteries, requires Li-ion capable BMS <sup>plus</sup>

### BATTERY OPTIMIZING SYSTEM II (BOS II)

WPLN4124AR	BOS I, Four Station, 100-240VAC (US line cord)
WPLN4125AR	BOS I, Four Station, 100-240VAC (UK/Euro line cords)

No other battery analyzer matches the speed, accuracy, and versatility of the Battery Optimizing System I. Ideal for large fleet, public safety, and all other users who rely on their battery performance. Now with increase power, more sophisticated programming options, and easier to use navigation paths, optimizing your batteries was never easier. Key features include:

- Support for NiCd, NiMH, Li-ion, and SLA batteries
- 100-watt Power Supply programmable from 100 mA to 4 Amps per station
- Interchangeable Adapters accommodate all major brands
- Includes a variety of User Programs and allows for customizable programming
- Proprietary Recondition Cycle restores NiCd and NiMH batteries
- Increased processing power and testing resolution – including a Three-minute Quicktest that measures the batteries' State of Health (SoH)
- Printer Output for reports and labels
- Three-year Warranty



WPLN4124AR

### BOS ADAPTERS

RL-76345	Standard Adapter for BOS I
RL76340	Standard Adapter for BOS I



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Chargers



### TRAVEL CHARGER

RLN4883A Travel Charger

A great traveling companion that ensures constant communication while on the road. Allows the battery to rapid charge while using the radio. Users can receive communication immediately once the charger is connected, and transmit from a previously "dead" battery in just 5 minutes. This light and compact unit includes a Voltage-Regulated Lighter Adapter, Custom Charger Base, Mounting Bracket and Coil Cord. Ideal for public safety, utility and construction markets.

### TRAVEL CHARGER MOUNTING BRACKET

0780384K84 Universal Mounting Bracket for Travel Charger; includes screws and nylon cord (included with RLN4883A)



### VEHICULAR CHARGER

RLN5233A Vehicular Charger

This 12V DC rapid rate charger is ideal for mobile customers. Capable of charging NiCd, NiMH, and Li-ion batteries. This durable unit comes with a metal mounting bracket. Its drop-in design makes it ideal for public safety users.



# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Chargers



AAEN1006B

### VEHICULAR ADAPTERS

AAEN1006B	VHF, 136-174 MHz
AAEN1007B	UHF, 403-470 MHz
5880367B23	Connector Adapter, BNC Female
5880367B28	Connector Adapter, BNC Male
ENKN4002A	Programming Cable (required for use with external speaker or HT1250.LS operation)
ENKN4003A	Audio Service Cable (for use with HT1250•LS RLN4460C test box)
GSN6059A	External 13 Watt Speaker
GKN6270A	Power Cable with 10A Fuse

Now customers working in areas such as Public Safety and Utilities can both charge and operate portable two-way radios inside a vehicle. These Vehicular Adapters detect the chemistry of the portable battery and select the optimum charging method while providing power for in-vehicle use. In addition, an Antenna Adapter allows automatic switching to an external Vehicle-mounted Antenna (sold separately) for extended range. These kits include the Vehicle Adapter, Microphone, RF Adapter, Battery Spacers, Technical Installation Manual, and Programming Software. 3 db gain antennas are recommended for use with these vehicular adapters.

### REPLACEMENT ITEMS

ENLN4103A	Replacement VHF Antenna Adapter, 136-174 MHz
ENLN4104A	Replacement UHF Antenna Adapter, 403-470 MHz
GMN6146C	Hand-held Mobile Microphone
ENLN4117A	Vehicle Connector Kit
WALN4078A	Battery Spacer Kit
8264934B01	Programming Software
6881093C78	User Manual
6881093C79	Technical Manual



ENLN4103A

# HT750, HT1250, HT1250•LS, HT1250•LS<sup>+</sup>, HT1550•XLS

## Antennas



NAE6483AR

### ANTENNAS

#### FLEXIBLE WHIP ANTENNAS

8504762J01	Flexible Whip, 136-155 MHz
PMAD4023A	Flexible Whip, 150-161 MHz
8504762J02	Flexible Whip, 155-174 MHz
NAE6483AR	Flexible Whip, 403-520 MHz
NAD6502AR	Heliflex 146-174 MHz
NAB6064A	Heliflex 29.7-50 MHz
NAD6579A	Flexible Whip 148-161 MHz

Flexible Whip Antennas have a one-piece finish, steel core, and spiral wound conductor for optimal radiation characteristics.



PMAD4013A

#### STUBBY ANTENNAS

PMAD4012A	Stubby, 136-155 MHz
PMAD4025A	Stubby, 150-161 MHz
PMAD4013A	Stubby, 155-174 MHz
PMAE4002A	Stubby, 403-433 MHz
8504762J08	Stubby, 438-470 MHz

Stubby antennas are ideal when the radio is worn on the belt because they are short and non-obtrusive. These helical rugged antennas feature a capless sheath that allows for maximum flexibility.

#### RETROFIT BOARDS

AAHLN9725C	Voice Storage Option Board (Field Install Only)
AAHLN9729C	DTMF Decode Option Board (Field Install Only)



For more information, please contact:



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