



Professional Series Two-Way Radios and Accessories

HT750<sup>™</sup> Low Band VHF
HT1250<sup>™</sup> Low Band VHF
HT1250·LS<sup>+™</sup> VHF
HT1550·XLS<sup>™</sup> VHF



## 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

### Escalert™ 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 Features: · Small, Lightweight

and Durable

Switchable Channel

• 12.5/25 kHz

Spacing

Alarm Clock

Option Board

**Capabilities** 

### 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

Easy access to favorite features

### Adjustable Power Levels

6 Programmable Buttons

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

# are heard Internal VOX

Display with User-Friendly Icons Information is clear and easy to read

14-Character Alphanumeric

### **Control Buttons**

Menu, navigation, and exit functions

### 128 Channels (16 Zones)

### **Emergency Button**

Sound alarm or alert dispatcher in an emergency situation

### Escalert™ Call Features

Ensures important signals

Handsfree operation with headset

Quik Call II™ and

## Send and receive information in

a variety of ways, including:

### • Push-to-talk ID (Encode/Decode)

MDC1200 Signaling

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



(Available in both limited and full keypad)

## HT750 and HT1250

## Specifications

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

| Transmitter  |                                    |                                      |                                    |  |  |
|--|------------------------------------|--------------------------------------|------------------------------------|--|--|
| Specifications                                       | Low Band                           | VHF                                  | UHF                                |  |  |
| Frequencies  | 29.7–42 MHz<br>35–50 MHz           | 136-174 MHz                          | 403–470 MHz<br>450–512 MHz         |  |  |
| Power Output   | 1-6 W                              | 1–5 W                                | 1-4 W                              |  |  |
| Frequency Stability<br>(-30° C to +60° C, +25° Ref.) | ±10 ppm                            | ±5 ppm @<br>±2.5 ppm @               |                                    |  |  |
| Modulation Limiting                                  | +5.0 @ 20 kHz                      |                                      |                                    |  |  |
| Spurs/Harmonics                                      | -36 dBm < 1 GHz<br>-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<br>16K0F3E                  | 125 kHz 25/30 kHz<br>11K0F3E 16K0F3E | 12.5 kHz 25 kHz<br>11K0F3E 16K0F3E |  |  |

| 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<br>35–50 MHz           | 136–174 MHz                                      | 403–470 MHz<br>450–512 MHz |  |  |
| Hum and Noise                              | -45 dB @ 20/25 kHz                 | -45 dB @ 12.5 kH:                                | z, -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<br>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<br>FCC Part 15 | -57 dBm < 1 GHz<br>-47 dBm > 1 GHz |  |                            |  |  |

| Portable Military Standards 810 C, D, & E |         |            |         |            |         |            |  |
|---|---------|------------|---------|------------|---------|------------|--|
| Applicable MIL-STD                        | 810     | OC         | 810     | DD .       | 810     | 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+ PORTABLE RADIO

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



### HT1250 • LS+: The Intelligent Radio

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

## 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

MOTOROLA

(Available in both limited and full keypad)

### HT1250°LS+ 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

### 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.



## Specifications

| 0  | 10 :::   |  |  |  |
|--|--|--|--|--|
| Genera   | I Specific   | cations  |  |  |
|  | VHF  | 200 MHz  | UHF  | 700 MHz  |
| Channel Capacity Trunking zone capacity Trunking talkgroup capacity (per zone) Conventional channel capacity   | 15<br>16<br>16 or 32*  | 15<br>16<br>16                                       | 15<br>16<br>16 or 32*                                | 15<br>16<br>16                                       |
| Power Supply   |  | Rechargeable   | battery 7.5V   | 1  |
| 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 37.5mm)<br>5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40mm)<br>5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40mm)<br>5.40 in x 2.26 in x 1.60 in (137mm x 57.5mm x 40mm) |  |  |  |
| Weight: With NiMH High Capacity Battery With impres NiMH Battery With impres NiMH FM Battery With impres Li-ion Battery                                    | 15.0 oz. (420g)<br>17.5 oz. (488g)<br>17.5 oz. (488g)<br>12.8 oz. (358g)   |  |  |  |
| Average Battery Life @ 5/5/90 Duty Cycle*: With NiMH High Capacity Battery With impres NiMH Battery With impres NiMH FM Battery With impres Li-ion Battery | Low<br>Power<br>11 hrs<br>17 hrs<br>16 hrs<br>18 hrs   | High<br>Power<br>8 hrs<br>11 hrs<br>10 hrs<br>11 hrs | Low<br>Power<br>11 hrs<br>17 hrs<br>16 hrs<br>18 hrs | High<br>Power<br>8 hrs<br>13 hrs<br>13 hrs<br>14 hrs |
| FCC Description  | AZ489FT3794 (136-17 <sup>1</sup> 4 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                        | 810     | OC         | 810     | 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                              |  |  |  |
| Frequencies                                   | 136-174 MHz                            | 217-218 MHz<br>219-220 MHz<br>220-222 MHz | 403–470 MHz<br>450–512 MHz           | 746–747 MHz<br>762–764 MHz           |  |  |  |
| Hum and Noise                                 | -45 dB @ 12.5 kHz<br>-50 dB @ 25 kHz   | -40 dB                                    | -45 dB @ 12.5 kHz<br>-50 dB @ 25 kHz | -40 dB                               |  |  |  |
| Sensitivity (12 dB SINAD) EIA                 | .25 µV                                 | 0.3 μV (0.25 μV typical)                  | .25 µV                               | 0.35 μV (0.3 μV typical)             |  |  |  |
| Sensitivity (20 dB SINAD) ETS                 | .50 μV                                 |   | .50 μV                               |                                      |  |  |  |
| Channel Spacing                               | 12.5/20/25 kHz                         | 12.5 kHz                                  | 12.5/20/25 kHz                       | 12.5 kHz                             |  |  |  |
| Intermodulation                               | 70 dB                                  | 70 dB                                     | 70 dB                                | 70 dB                                |  |  |  |
| Adjacent Channel Selectivity  70 dB @ 25 kHz/ | 60 dB @ 12.5 kHz/<br>40 dB (TIA 603-A) | 60 dB (TIA 603)                           | 60 dB @ 12.5 kHz/<br>70 dB @ 25 kHz/ | 60 dB (TIA 603)<br>40 dB (TIA 603-A) |  |  |  |
| Spurious Rejection                            | 70 dB                                  | 70 dB                                     | 70 dB                                | 70 dB                                |  |  |  |
| Rated Audio                                   | 0.5 W                                  | 0.5 W                                     | 0.5 W                                | 0.5 W                                |  |  |  |
| Audio Distortion @ Rated Audio                | 3% typical                             | 3% typical                                | 3% typical                           | 3% typical                           |  |  |  |
| Audio Response                                | +1 to -3 dB                            | +1 to -3 dB                               | +1 to -3 dB                          | +1 to -3 dB                          |  |  |  |
| Conducted Spurious Emission<br>FCC Part 15    | -57 dBm < 1 GHz<br>-47 dBm > 1 GHz     | -57 dBm < 1 GHz<br>-47 dBm > 1 GHz        | -57 dBm < 1 GHz<br>-47 dBm > 1 GHz   | -57 dBm < 1 GHz<br>-47 dBm > 1 GHz   |  |  |  |

|  | Transmitter                                       |  |   |  |  |  |  |
|--|---|--|---|--|--|--|--|
| Specifications                                       | VHF   | 200 MHz  | UHF   | 700 MHz  |  |  |  |
| Frequencies  | 136–174 MHz                                       | 217-218 MHz (Talkaround)<br>219-220 MHz<br>220-221 MHz (Talkaround)<br>221-222 MHz | 403-470 MHz<br>450-512 MHz                        | 776-777 MHz<br>792-794 MHz<br>746-747 MHz (Talkaround)<br>762-764 MHz (Talkaround) |  |  |  |
| Power Output   | 1–5 W   | 1 W or 5 W   | 1-4 W   | 1 W or 2.5 W   |  |  |  |
| Frequency Stability<br>(-30° C to +60° C, +25° Ref.) | ±5 ppm @ 25 kHz<br>±2.5 ppm @ 12.5 kHz            | ±2.5 ppm   | ±5 ppm @ 25 kHz<br>±2.5 ppm @ 12.5 kHz            | ± 1.5 ppm  |  |  |  |
| Modulation Limiting                                  | ±2.5 @ 12.5 kHz<br>±4.0 @ 20 kHz<br>±5.0 @ 25 kHz | ± 2.5 KHz  | ±2.5 @ 12.5 kHz<br>±4.0 @ 20 kHz<br>±5.0 @ 25 kHz | ± 2.5 kHz  |  |  |  |
| Conducted and Radiated<br>Emissions                  | -36 dBm < 1 GHz<br>-30 dBm > 1 GHz                | -16 dBm  | -36 dBm < 1 GHz<br>-30 dBm > 1 GHz                | ( 40 dD 4 1000   |  |  |  |
| Channel Spacing                                      | 12.5/20/25 kHz                                    | 12.5 kHz   | 12.5/20/25 kHz                                    | 12.5 kHz   |  |  |  |
| FM Hum & Noise                                       | -40 dB typical                                    | -40 dB typical   | -40 dB typical                                    | -40 dB typical   |  |  |  |
| Adjacent Channel Power                               | - 60 dB @ 12.5<br>- 70 dB @ 25 kHz                | -60 dB   | -60 dB @ 12.5<br>-70 dB @ 25 kHz                  | -60 dB   |  |  |  |
| Audio Response                                       | +1 to -3 dB                                       | +1 to -3 dB  | +1 to -3 dB                                       | +1 to -3 dB  |  |  |  |
| Audio Distortion                                     | 3% typical  | 3% typical   | 3% typical  | 3% typical   |  |  |  |
| FM Modulation  | 11K0F3E (12.5 kHz)<br>16K0F3E (25 kHz)            | 11K0F3E  | 11K0F3E (12.5 kHz)<br>16K0F3E (25 kHz)            | 11K0F3E  |  |  |  |
| Adjacent Channel<br>Coupled Power                    | N/A   | N/A  | N/A   | Complies with 47<br>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.

<sup>\*</sup> 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 buttonand 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.

Easy access to favorite features

Selective Scanning

transmissions your radio scans

- Automatic, one-button return to a preferred channel
- Home Channel Revert Autokey

favorite talkgroup and send a PTT ID to a group of radios

Change scan, phone, and call lists on the fly

### Telephone Interconnect

using the radio

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



- 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<sup>†</sup>

HT1550-XLS

Series

12:09 ...

Radio

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

• System/All Group/Auto Group

Define the frequency and type of

• Multi-Home Channel Revert

## (LTR mode)

Automatically access your

User-Defined List

Place and receive phone calls

### Front Programming Capable

Program frequencies, PL codes and more using the keypad

### Voice Storage with Answering Machine Mode

## Specifications

| General Specifications   |  |  |  |  |  |
|--|--|--|--|--|--|
|  | VHF UHF  |  |  |  |  |
| Channel Capacity   | Trunking talkgro   | e capacity: 15<br>oup capacity: 16<br>nnel 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 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)<br>5.98 in x 2.26 in x 1.60 in (152mm x 57.5 x 40mm)<br>5.98 in x 2.26 in x 1.60 in (152mm x 57.5 x 40mm)<br>5.98 in x 2.26 in x 1.60 in (152mm x 57.5 x 40mm) |  |  |  |  |
| Weight:<br>With NiMH High Capacity Battery<br>With impres NiMH Battery<br>With impres NiMH FM Battery<br>With impres Li-ion Battery                                    | 16.2 oz. (460g)<br>18.7 oz. (530g)<br>18.7 oz. (530g)<br>14.0 oz. (397g)   |  |  |  |  |
| Average Battery Life @ 5/5/90 Duty Cycle*:<br>With NiMH High Capacity Battery<br>With impres NiMH Battery<br>With impres NiMH FM Battery<br>With impres Li-ion Battery | Low   High   Low   High   Power   Power   11 hrs   8 hrs   11 hrs   17 hrs   13 hrs   16 hrs   10 hrs   18 hrs   11 hrs   18 hrs   14 hrs   18 hrs   14 hrs  |  |  |  |  |
| Model Numbers  | AAH25KDN9DU8AN AAH25RDN9DU8AN AAH25SDN9DU8AN   |  |  |  |  |
| FCC description  | AZ489FT3794 (136-174 MHz)<br>AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz)  |  |  |  |  |

| Transmitter  |   |                                    |  |  |  |
|--|---|------------------------------------|--|--|--|
| Specifications                                       | VHF UHF   |                                    |  |  |  |
| Frequencies  | 136-174 MHz   | 403–470 MHz<br>450–512 MHz         |  |  |  |
| Power Output   | 1–5 W   | 1-4 W                              |  |  |  |
| Frequency Stability<br>(-30° C to +60° C, +25° Ref.) | ±2.5  | ±2.5 ppm                           |  |  |  |
| Modulation Limiting                                  | +2.5 @ 12.5 kHz /±4.0 kHz @ 20 kHz<br>+5.0 @ 25 kHz |                                    |  |  |  |
| Channel Spacing                                      | 12.5/20   | 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<br>11K0F3E 16K0F3E               | 12.5 kHz 25 kHz<br>11K0F3E 16K0F3E |  |  |  |

| 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<br>per FCC Part 15 | -57 dBm < 1 GHz<br>-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.

## 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

Flexible Ear Receiver with 3.5mm Adapter for use with WADN4190A\*

HMN3158A, AAHMN9053E, AAHMN9054C and AAHMN9057C



WADN4190A

\*Intrinsically safe

## Audio Accessories



HLN3156A

### REMOTE SPEAKER MICROPHONE WITH BLUETOOTH™ WIRELESS TECHNOLOGY

HLN3156A Wireless Remote Speaker Microphone Kit; includes Remote

Speaker Microphone with Bluetooth Wireless Technology (HMN3158A) and Radio Adapter (HHLN4125A); Adapter-capable

Battery (HNN9003AR) is required but sold separately.

*HMN3158A* Remote Speaker Microphone with Bluetooth Wireless

Technology; requires Radio Adapter (HHLN4125A) and

Adapter-capable Battery (HNN9003AR)

HHLN4125A Radio Adapter with Bluetooth Wireless Technology

HNN9003AR Adapter-Capable NiMH Battery, 1200 mAh, 7.5V

Carry Case for Remote Speaker Microphone with Bluetooth

Wireless Technology

RLN5213A

Work and communicate in a cord-free environment. Motorola is on the front line of Bluetooth Wireless Technology by providing users of two-way radios the first Wireless Remote Speaker Microphone. This device communicates to a two-way radio through an adapter equipped with Bluetooth Wireless Technology and an Adapter-Capable Battery that is attached to a Motorola two-way radio. The user simply turns on the radio and the Wireless Remote Speaker Microphone—the Bluethooth Technology does the rest! The Adapter and Remote Speaker Microphone with Bluetooth Wireless Technology "connect" and link to each other wirelessly. Compatible with Motorola HT750 and HT1250 radios.

### **MICJACKETS**

RLN5008A MicJacket, compatible with AAHMN9052E

Remote Speaker Microphone

RLN5009A MicJacket, compatible with AAHMN9053E

Remote Speaker Microphone

RLN5010A MicJacket, compatible with AAHMN9054C

and HMN9057C Public Safety Speaker Microphones

MicJackets provide speaker microphone users with a way to further protect the "head" of their microphone from dust, dirt, metal particles, sweat, body oils and other on-the-job grime. MicJackets also allow the user to handle or interact with the speaker microphone in a more hygienic way.





## Audio Accessories



AARMN4028A



ENMN4017A

### 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

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.







5080370E97 Standard Rubber Eartip, pack of 25, Clear





## Audio Accessories



NTN8370A



NOISE KITS

NTN8370A Extreme Noise Kit, includes 2 Foam Earplugs for loud

environments; provides 24dB of noise reduction

NTN8371A Low Noise Kit, includes Rubber Eartip for low noise

environments; does not provide hearing protection.

5080384F72 Replacement Foam Plugs; for use with NTN8370A (pack of 50) 5080370E97

Replacement Standard Clear Rubber Eartips; for use with

NTN8371A (pack of 25)

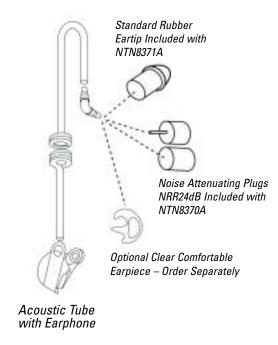
This lightweight translucent tube attaches to Motorola Surveillance Kits to provide additional flexibility and comfort. Clothing clip prevents the accessory from being pulled from the ear due to body movement or head rotation.

### CLEAR COMFORTABLE EARPIECES

RLN4760A Small Custom Earpiece, Right Ear RLN4763A Small Custom Earpiece, Left Ear RLN4761A Medium Custom Earpiece, Right Ear RLN4764A Medium Custom Earpiece, Left Ear RLN4762A Large Custom Earpiece, Right Ear RLN4765A Large Custom Earpiece, Left Ear

The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. Compatible with the NTN8371A Clear Acoustic Tube Assembly and most Surveillance Kits (1, 2, and 3-wire), this Earpiece is made of easy-to-clean, chemically inert, hypo-allergenic material. The following 3 items are required for this product:

- Clear Comfortable Earpiece
- Clear Acoustic Tube Assembly (NTN8371A)
- Surveillance Kit





## 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.



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



ENMN4013A

### 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.



## Audio Accessories

### OPTIONAL ACCESSORIES FOR EAR MICROPHONE SYSTEM

0180358B38\* Push-To-Talk Ring Switch 0180300E83\* Push-To-Talk Body Switch 0180300E25 Earguard with Adjustable Loop; secures ear mic in ear 0180358B32 Earholder, Black, size Small; secures ear mic in ear 0180358B33 Earholder, Black, size Medium; secures ear mic in ear 0180358B34 Earholder, Black, size Large; secures ear mic in ear 0180358B35 Earholder, Clear, size Small; secures ear mic in ear 0180358B36 Earholder, Clear, size Medium; secures ear mic in ear 0180358B37 Earholder, Clear, size Large; secures ear mic in ear

4202006A01Replacement Back Cover Clip4280369E44Replaceable Belt Clip with Screws

4285838B01 Replacement Collar Clip

5080358B28Eartips, Black, size Medium (pack of 10)5080358B29Eartips, Black, size Large (pack of 10)5080358B30Eartips, Beige, size Medium (pack of 10)5080358B31Eartips, Beige, size Large) (pack of 10)





0180358B33



0180300E25



### RMN4048A



RMN5048A

### TEMPLE TRANSDUCER

RMN4048A\* Temple Transducer
RMN5048A\* Rugged Temple Transducer

0180305J46 Ear Microphone System and Temple Transducer CD Rom

The Temple Transducer represents a significant achievement in headset design and functionality. It allows the user to receive audio without covering the ear. The receiver portion of this accessory rests on the temples and is capable of converting the received audio from a two-way radio into sound vibration. The sound vibration is transmitted through the surrounding human tissue and bone directly into the inner ear, where it is received by the user. It features an In-Line PTT and noise canceling boom microphone. The Temple Transducer enhances communication and safety by not impairing the user's hearing of external sounds in the environment from machinery and equipment, warning and fire alarms, intercoms, traffic and even casual conversations with co-workers. The Rugged Temple Transducer features noise canceling and water resistant boom microphone, adjustable straps, and large In-Line PTT. Like the Standard Temple Transducer it can be worn under helmets.





## Audio Accessories



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



NKN6525A

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 Replacement Body PTT Cable for NNTN4187A NNTN4188A CommPort Maintenance Kit: includes replacement ear tubes NTN8821A (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)

Replacement Ear Tubes (pack of 10)

Ear Straps for secure attachment to ear (pack of 10)

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.

NTN8988A

RLN5037A

<sup>\*</sup>Intrinsically safe

## Audio Accessories

### **RECEIVE-ONLY HEADSETS**

RMN4054B Receive-Only Hardhat Mount Headset mounts easily to hardhats

with slots and provides 22dB of noise reduction; for use with

AAHMN9053E, AAHMN9057C and AAHMN9054C

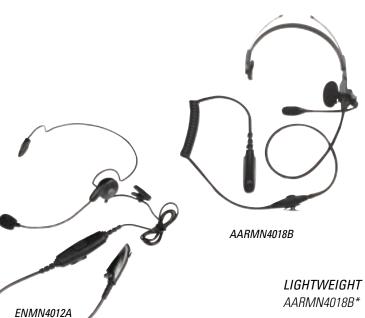
(hardhat not included)

Receive-Only Headband Style Headset provides 24dB of noise RMN4055B

reduction; for use with AAHMN9053E, AAHMN9054C and

AAHMN9057C

RLN5238A





### LIGHTWEIGHT HEADSETS

AARMN4018B\* Single Muff-adjustable Lightweight Headset with Boom

Microphone and In-Line PTT

AARMN4031B Lightweight Headset with Swivel Boom Microphone;

no In-Line PTT

ENMN4012A\* Ultra-Light Headset, behind the head style with flexible

Boom Microphone and In-Line PTT

AARMN4017A\* Ultra-Light Headset with Boom Microphone, Earbud

Style Receiver

Replacement Foam Earpad and Windscreen Kit for REX4648A

AARMN4018A and AARMN4031A

RLN5238A NFL Style Lightweight Headset. Similar to the headset worn

by coaching staff in the NFL. Requires adapter

AAHLN9716B

Allow for high clarity, discreet two-way communications while adding comfort necessary for extended wear in moderate noise environments.



## 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 (1pair)

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.





## 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 earcups.



RMN4052B



### 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)

MN5047A 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.

\*Intrinsically safe



## 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 batteriesHLN9701B 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

### 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



HLN9694A

## 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



## 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.

### **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+, 700 MHz models)

1505596Z02 Replacement Strap for HLN6602A







### 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 Radio/Ak Radio/Utility Case

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

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.

# Batteries & Chargers

### **BATTERIES**

### impres™ BATTERIES

HNN4001A 1900mAh, 7.5V

HNN4002A 1800mAh, 7.5V, Intrinsically safe

*HNN4003A* 2000mAh, 7.2V

impres<sup>™</sup> 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

### POWER NICKEL METAL HYDRIDE (NIMH)

WPNN4045AR 1200 mAh, 7.5V

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



### 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.

## 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.



WPLN4182A



### 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.



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.

impres™ CD

*9880384R88* impres<sup>™</sup> CD

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

## Chargers





WPLN4107BR MCC Kit, 110V AC (includes both Base Charger Unit and 7V

Adapter Plate)

MOTOROLA CONDITIONING CHARGERS (MCC)

WPLN4106BR MCC Kit, 220V AC (includes both Base Charger Unit and 7V

Adapter Plate)

WPPN4065BR Multi Unit Conditioning Charger, Four-Station Base, 110V (order

Adapter Plate separately)

WPPN4082BR 7V Adapter Plate Only

3080384G15 Cigarette Lighter Adapter Cord

RLN4814A Vehicular Mounting Bracket and Hard-wire Cable for Single Unit

Motorola Conditioning Charger

3080384M21 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.



## Chargers

### BATTERY MAINTENANCE SYSTEM PLUS (BMS PLUS)

### 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

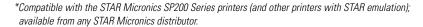
WPLN4081AR; allows these units to support Li-ion battery

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)





### BMSPLUS ADAPTERS

WPPN4079AR Adapter compatible

withboth 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 BOSI, Four Station, 100-240VAC (US line cord)
WPLN4125AR BOSI, 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

## 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.



## Chargers



AAEN1006B

### **VEHICULAR ADAPTERS**

AAEN1006B VHF, 136-174 MHz AAEN1007B UHF, 403-470 MHz

5880367B23 Connector Adapter, BNC Female 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 Technical Manual



## Antennas



### **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

 NAB6064A
 Heliflex 146-174 MHz

 NAB6064A
 Heliflex 29.7-50 MHz

 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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