

HT750[™]

Professional Series Portable Radio Operates on Conventional Systems in the UHF and VHF Bands

Programmable Emergency Button Sound alarm or alert dispatcher in 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 Internal VOX Handsfree operation with headset **Escalert[™] Call Features**

HT750 Affordable and Reliable

- Small, Lightweight and Durable
- 12.5/25kHz Switchable Channel Spacing
- LED Battery
 Status Indicator

M MOTOROLA

- Telephone Interconnect Capable
- Option Board Capabilities
- MSHA Option Available



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

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-PandTM technology, audio quality is clean and crisp even in noisy environments. With the HT750 radio, communication couldn't be easier.

The HT750 also features a MSHA (Mine Safety and Health Administration) approved option for use in

underground gaseous mines containing methane. Locations within underground mining environments may require MSHA approved equipment and could pose a challenge for the use of communication devices by workers. The HT750 MSHA approved option, can help ensure your workers are able to communicate with one another – helping to maximize their safety within these environments. The HT750 MSHA approved option also extends to audio accessories, enabling hands-free communication with a dual muff heavy-duty head-set (AARM4020) or remote speaker microphone (PMMN4027).

SPECIFICATION SHEET

HT750™ PROFESSIONAL SERIES Portable Radio

| | GENERAL SPECIFICATIONS | ENIVIDONIMENTA | |
|--|--|-------------------------|------------------------|
| | GENERAL SPECIFICATIONS | ENVIRONMENTA | \L |
| | VHF/UHF | | |
| HT750 Channel Capacity: | 16 | Operating Temperature*: | -30°C to +60°C |
| Power Supply: | Rechargeable battery | Storage Temperature: | -55°C to +85°C |
| Dimensions: | | Humidity: | 95% RH @ 8 Hr. |
| With NiMH MSHA Battery (NNTN7380): | 5.40 x 2.26 x 1.75 in (137 x 57.5 x 44 mm) | ESD | IEC 801-2 KV |
| Weight: With NiMH MSHA Battery (NNTN7380): | 16.6 oz. (470g) | Water Intrusion: | IP54 |
| Average Battery Life @ 5/5/90 Duty Cycle*: With NiMH MSHA Battery (NNTN7380): | Low High 10 hrs 8 hrs | * Radio only. NiMH MSHA | Battery -10°C to +60°C |
| FCC Description: | AZ489FT3794 (136-174 MHz), AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz) | | |

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

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

| MILITARY STANDARDS 810 C, D, E | | | | | | | | |
|--------------------------------|-----------|-----------|---------|--------------|---------|--------------|--|--|
| | MIL-81 | MIL-810C | | MIL-STD 810D | | MIL-STD 810E | | |
| | Method: P | roc./Cat. | Method: | Proc./Cat. | Method: | Proc./Cat. | | |
| Low Pressure: | 500.1: | | 500.2: | II | 500.3: | II | | |
| High Temp: | 501.1: | I, II | 501.2: | 1, 11 | 501.3: | 1, 11 | | |
| Low Temp: | 502.1: | II | 502.2: | 1, 11 | 502.3: | 1, 11 | | |
| Temp Shock: | 503.1: | I | 503.2: | I | 503.3: | 1 | | |
| Solar Radiation: | 505.1: | I | 505.2: | I | 505.3: | I | | |
| Rain: | 506.1: | I, II | 506.2: | I, II | 506.3: | 1, 11 | | |
| Humidity: | 507.1: | II | 507.2: | II, III | 507.3: | II, III | | |
| Salt Fog: | 509.1: | I | 509.2: | 1 | 509.3: | 1 | | |
| Dust: | 510.1: | I | 510.2: | I | 510.3: | I | | |
| Vibration: | 514.2: | VIII, X | 514.3: | I | 514.4: | I | | |
| Shock: | 516.2: | I, II, V | 516.3: | I, IV | 516.4: | I, IV | | |

Version 2, 12 08

MSHA Approvals

Mine Safety Health Administration Approvals

The HT750 portable radio is certified by Mine Safety Health Administration (MSHA) as intrinsically safe for use in methane air mixtures on models ordered with the MSHA option and battery.

Approval number: 23-A080007-0



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