

HT750™ Portable Radio

Available in Low Band, VHF and UHF

Operates on Conventional Systems



With Motorola's unique X-Pand™ technology, audio quality is clean and crisp even in noisy environments.

HT750

Affordable and Reliable

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

Programmable Emergency Button

Sound alarm or alert dispatcher in emergency situation

4 or 16 Channels

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

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

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.

specifications

| GENERAL | LOWBAND | VHF/UHF |
|--|---|---------------------------|
| HT750 Channel Capacity: | 4 or 16 | 4 or 16 |
| Power Supply: | Rechargeable battery 7.5V | Rechargeable battery 7.5V |
| Dimensions: | | |
| With NiMH High Capacity Battery: | 5.40 x 2.26 x 1.50 in (137 x 57.5 x 37.5 mm) | |
| With IMPRES NiMH/NiMH FM Battery: | 5.40 x 2.26 x 1.60 in (137 x 57.5 x 40 mm) | |
| With IMPRES Li-ion Battery: | 5.40 x 2.26 x 1.30 in (137 x 57.5 x 40 mm) | |
| Weight: | | |
| With NiMH High Capacity Battery: | 15.0 oz. (420g) | |
| With IMPRES NiMH/NiMH FM Battery: | 17.5 oz. (488g) | |
| With IMPRES Li-ion Battery: | 12.8 oz. (358g) | |
| Average Battery Life @ 5/5/90 Duty Cycle*: | Low Power | High Power |
| 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 |
| FCC Description: | AZ489FT3794 (136-174 MHz), AZ489FT4826 (403-470 MHz), AZ489FT4834 (450-512 MHz), AZ489FT1625 (29.7-42, 42-50 MHz) | |

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

| TRANSMITTER | LOWBAND | VHF | UHF |
|--|--------------------------------|--|--|
| Frequencies: | 29.7-42, 35-50 MHz | 136-174 MHz | 403-470, 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 @ 25kHz, ±2.5 ppm @ 12.5kHz | ±5 ppm @ 25kHz, ±2.5 ppm @ 12.5kHz |
| Modulation Limiting: | +5.0 @ 20kHz | ±2.5 @ 12.5kHz/±4.0 @ 20kHz/+5.0 @ 25kHz | ±2.5 @ 12.5kHz/±4.0 @ 20kHz/+5.0 @ 25kHz |
| Spurs/Harmonics: | -36dBm < 1 GHz, -30dBm > 1 GHz | -36dBm < 1 GHz, -30dBm > 1 GHz | -36dBm < 1 GHz, -30dBm > 1 GHz |
| Channel Spacing: | 20/25kHz | 12.5/20/25kHz | 12.5/20/25kHz |
| FM Hum & Noise: | -40dB typical | -40dB typical | -40dB typical |
| Adjacent Channel Power: | -60dB @ 12.5, -70dB @ 25kHz | -60dB @ 12.5, -70dB @ 25kHz | -60dB @ 12.5, -70dB @ 25kHz |
| Audio Response: (300 - 3000 Hz) | +1 to -3dB | +1 to -3dB | +1 to -3dB |
| Audio Distortion: | 3% typical | 3% typical | 3% typical |
| FM Modulation: | 25kHz | 12.5kHz 25/30kHz | 12.5kHz 25kHz |
| | 16KOF3E | 11KOF3E 16KOF3E | 11KOF3E 16KOF3E |

PORTABLE MILITARY STANDARDS 810 C, D, & E

| | MIL-STD 810C | MIL-STD 810D | MIL-STD 810E |
|------------------|------------------|------------------|------------------|
| | Method: Proc/Cat | Method: Proc/Cat | Method: Proc/Cat |
| Low Pressure: | 500.1: I | 500.2: II | 500.3: II |
| High Temp: | 501.1: I, II | 501.2: I, II | 501.3: I, II |
| Low Temp: | 502.1: II | 502.2: I, II | 502.3: I, II |
| Temp Shock: | 503.1: I | 503.2: I | 503.3: I |
| Solar Radiation: | 505.1: I | 505.2: I | 505.3: I |
| Rain: | 506.1: I, II | 506.2: I, II | 506.3: I, II |
| Humidity: | 507.1: II | 507.2: II, III | 507.3: II, III |
| Salt Fog: | 509.1: I | 509.2: I | 509.3: I |
| 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 |

ENVIRONMENTAL SPECIFICATIONS

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

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.



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MD-EU-HT750