



TWO-WAY RADIOS

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, or an important feature in critical situations. The radio of choice is the HT1250 portable. It's the radio that changes with your needs.

HT1250

Portable Radio



HT1250
without keypad



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

128 Channels (8 Zones)

Emergency Button
Sound alarm or alert dispatcher in an emergency situation

Escalert™ Call Features
Ensures important signals are heard

Internal VOX
Hands-free operation with headset

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

RSSI Indicator
Displays signal strength level

Caller ID
Incoming caller is identified

Emergency Signaling
Sends help signal

Quik-Call II™ and MDC 1200 Signaling (Encode/Decode)
Send and receive information via tone or digital signals

Battery Gauge
For at-a-glance battery life levels

Control Buttons
Menu, navigation, and exit functions

HT1250 features

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

As Dedicated As You Are

Professional Radio

Portable Two-Way Radio Specifications

| General Specifications | | | | |
|--|---|-------------------|------------------|-------------------|
| | Low Band | | VHF | UHF |
| Channel Capacity | 128 | | | |
| Power Supply | Rechargeable battery 7.5V | | | |
| Dimensions | With NiMH High Capacity Battery 5.40" x 2.26" x 1.50" (137.0 x 57.5 x 37.5 mm) With NiMH Ultra-High Capacity Battery 5.40" x 2.26" x 1.60" (137.0 x 57.5 x 40.0 mm) With NiCd Battery 5.40" x 2.26" x 1.60" (137.0 x 57.5 x 40.0 mm) With Lilon Battery 5.40" x 2.26" x 1.30" (137.0 x 57.5 x 33.0 mm) | | | |
| Weight | With NiMH High Capacity Battery 15.0 oz. (420g) With NiMH Ultra-High Capacity Battery 17.5 oz. (500g) With NiCd Battery 15.8 oz. (450g) With Lilon Battery 12.5 oz. (350g) | | | |
| Average Battery Life @ 5/5/90 Duty Cycle | Low Power | High Power | Low Power | High Power |
| With NiMH High Capacity Battery | 11 hrs | 8 hrs | 11 hrs | 8 hrs |
| With NiMH Ultra-High Capacity Battery | 14 hrs | 11 hrs | 14 hrs | 11 hrs |
| With NiCd Battery | 12 hrs | 8 hrs | 12 hrs | 9 hrs |
| With Lilon Battery | 11 hrs | 7 hrs | 11 hrs | 8 hrs |

| Transmitter | | | |
|---|--------------------------------|---|------------------------------------|
| Specifications | Low Band | VHF | UHF |
| Frequencies | 29.7–42 MHz 35–50 MHz | 136–174 MHz | 403–470 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 | 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 |

Contact your Motorola authorized two-way radio dealer:

| Receiver | | | |
|--|------------------------------------|------------------------------------|-------------|
| Specifications | Low Band | VHF | UHF |
| Frequencies | 29.7–42 MHz 35–50 MHz | 136–174 MHz | 403–470 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 | | |
| Channel Spacing | 20/25 kHz | 12.5/20/25 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
 Factory Mutual has given the HT1250 an intrinsically safe rating 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.

Ask your dealer about the other HT Series Two-Way Radios that utilize exclusive **X-PAND** technology.



MOTOROLA

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