



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

HT1250

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 11KOF3E	25/30 kHz 16KOF3E	12.5 kHz 11KOF3E

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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