

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.



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

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

HT750

Affordable and Reliable

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

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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