

MTP750
MOTOROLA TETRA
PORTABLE RADIO



MOTOROLA
intelligence everywhere™

MTP750



MISSION-CRITICAL EFFICIENCY

The MTP750 is the latest addition to the well-known TETRA radio for use in mission-critical environments. Valuable customer feedback has been incorporated into the design for improved tactility and ergonomics.

Ruggedly-built yet thoughtfully designed for an improved user experience with multiple language support (English, Simplified and Traditional Chinese), smoother navigation with many shortcuts, and even a display that can be read upside down.

The MTP750 offers full integration of voice, data and encryption in one unit, ensuring fast response time and accurate communications.

RAPID ACCESS TO FEATURES

A disaster recovery, a medical emergency, or an armed robber - these situations require instantaneous response. For fast and accurate call for help and backup the major features of the MTP750 are just the touch of a button away:

- 4-way Navigation Pad - New intuitive 'game pad'-like design and improved tactile feel give instant access to the radio's menu and enable fast menu scrolling. The raised edge of the radio also reduces wear and tear against the carrying case.
- TalkGroup Knob - Compact size prevents accidental re-adjustment, enabling the user to stay at the same talkgroup.
- Dedicated Emergency Button - Enlarged to facilitate easy activation in emergencies. Specially designed and located where it can be triggered in a 'no-look' situation.
- 13 Programmable Keys - One touch gives instant access to your most frequently used features for increased speed and efficiency.

DURABLE AND ROBUST

The MTP750 is built to meet MIL-STD 810 and also certified Intrinsically Safe by Factory Mutual (FM). Guaranteed good performance on the field, with our rigorous Motorola Accelerated Life Testing (ALT) procedure which simulates a 5 year life span.

FLIP DISPLAY

Read your text messages without removing your radio from the belt. The display of the MTP750 can be flipped upside down at the

touch of a button. Even the soft keys can be reversed to allow fast menu navigation.

CLEAR AUDIO QUALITY

Loud and crisp audio, even in noisy environments. A front facing speaker means communications are audible no matter which way the radio is worn. A dedicated speaker and/or an earpiece (sold separately) ensure safe audio levels for both duplex and private calls.

DMO EMERGENCY

DMO emergency group calls ensure that your emergency calls always get through even when you are outside the network coverage.

LONG BATTERY LIFE

Work with peace of mind, knowing you can rely on the highly accurate battery gauge. The MTP750 operates continuously up to 23 hours on one battery (on a 5-5-90 duty cycle), thus providing longer talk time that last more than 2 work shift (8 hours).

LANGUAGE SUPPORT

The MTP750 supports English, Simplified and Traditional Chinese. Users can work in the language most comfortable to them.



MTP750**Motorola TETRA Portable Radio 380-430MHz and 806-870 MHz**

GENERAL SPECIFICATIONS*		
Dimensions HxWxD	mm	143 x 55 x 39 (with standard Li Ion battery)
Weight	g	367 (with standard Li Ion battery) 244 (without battery)
Battery Capacity	mAh	1500 Standard Li Ion (Minimum) 1200 NiMH (Minimum) 1150 NiMH FM approved (Minimum)
Operating life	Hours	With standard Li Ion battery
5/5/90		Up to 23
5/35/60		Up to 17
Talk Groups - TMO		512
Talk Groups - DMO		208
Individual call list		100
Phone call list		100
PABX call list		25
Text Message List		20
Status List		100
Country code/Network code list		100
Scan list		20 lists of 20 groups

ENVIRONMENTAL		
Operating Temperature	°C	-30 to +60
Storage Temperature	°C	-40 to +85
Humidity		EIA/TIA 603 (95%)
Dust and Water		IP54
Shock and vibration		MIL810 C/D/E

RF SPECIFICATIONS			
Frequency Bands	MHz	380-430	806-870
Transmit Band	MHz	380-430	806-825
Receive Band	MHz	380-430	851-870
DMO Band	MHz	380-430	851-870
RF Channel Bandwidth	kHz	25	
Switching Bandwidth (TMO)	MHz	50 (380-430) 19 (851-870)	
Switching Bandwidth (DMO)	MHz	50 (380-430) 19 (851-870)	
Transmitter/Receiver Separation	MHz	10 (380-430) 45 (806-870)	
Transmitted RF Power	Watt	1 (380-430) 1 (806-870)	
RF Power Control		3 steps of 5dB	
RF Power of Accuracy	+/- db	2 dB	
Receiver Class		A and B	
Receiver Static Sensitivity	dBm	-112	
Receiver Dynamic Sensitivity	dBm	-103	

*Please note all product features are subject to infrastructure support.
All specifications shown are typical and subject to change without notice.
Talk time, standby times and dispatch times are approximate and depend on network configuration, signal strength and features selected.
To be supported in future releases.

Accessories include:

- Choice of IMPRES™ batteries
- IMPRES™ single unit charger with optional conditioning
- IMPRES™ multiple unit charger with optional display capability
- Choice of headsets
- One, two and three wire earpieces (black or beige)
- Acoustic tube with clear voicetube (low or extreme noise levels)
- Selection of enhanced and standard Remote Speaker Microphones
- Choice of carry accessories
- Data cable

Please refer to the MTP750 accessories brochure for further details.

Voice Services supported – Group:

Group call – TMO
Group call – DMO
Late Entry (TMO/DMO)
Emergency call
Emergency call "Hot Microphone"
Announcement Talk Group call
Dynamic Group Number Assignment (DGNA)
Local site trunking
Scanning
Priority monitor
Talking Party Identification
Loud/discreet audio mode

Voice Services supported – Private call:

Simplex/duplex operation
Flexible dialling (list scroll, short number dialling, direct dial, alpha search, last number called)
Loud/discreet audio mode
Calling line Identification Presentation

Voice Services supported – Telephone call (PABX/PSTN):

Full duplex operation
Speaker phone
Flexible dialling (list scroll, direct dial, alpha search, speed dial, one-touch dial)
DTMF over dial
Calling line Identification Presentation

Security services supported:

Air Encryption TEA1
Radio Stun
PIN/PUK code access
Keypad lock

Data/messaging services supported:

Short Data Service (SDS)
Alphanumeric Text Service
Predictive Text Entry (iTAP)
Built-in database enquiry templates
One touch status messaging
Packet data service
Peripheral Equipment Interface (PEI) for external RS232
short and packet data devices
New text message notification during calls

Languages supported:

English, Simplified Chinese and Traditional Chinese

Other:

- Compatible to Vehicular Adaptor
- Wideband RF operation (one model supports multiple RF bands)
- Keypad tones on/off
- Alert tones on/off
- Backlight options (disabled, manual, automatic and semi-automatic)
- Manual/automatic network selection
- Scan list edit via keypad
- Full screen ultra-precise battery gauge
- Factory Mutual intrinsically safe version
- Side connector for audio accessories
- Bottom connector for programming, upgrading, vehicle adapter and packet and short data
- End-stop talk group selection knob
- Dedicated emergency button
- 13 programmable buttons
- Vibracall supported by enhanced remote speaker microphone
- DMO Gateway Compatibility
- DMO Repeater[#]



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