



## 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.

| <b>MTP750 Motorola TETRA Portable Radio 380-430MHz and 806-870 MHz</b> |        |  |              |
|--|--------|--|--------------|
| <b>GENERAL SPECIFICATIONS*</b>   |        |  |              |
| Dimensions HxWxD   | mm     | 143 x 55 x 39 (with standard Li Ion battery)   |              |
| Weight   | g      | 367 (with standard Li Ion battery)<br>244 (without battery)                              |              |
| Battery Capacity   | mAh    | 1500 Standard Li Ion (Minimum)<br>1200 NiMH (Minimum)<br>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  |              |
| <b>ENVIRONMENTAL</b>   |        |  |              |
| 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   |              |
| <b>RF SPECIFICATIONS</b>   |        |  |              |
| 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)<br>45 (806-870)   |              |
| Transmitted RF Power   | Watt   | 1 (380-430)<br>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.

## 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, TEA3  
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 adaptor 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 Compatibility



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Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. EIA RS-3168 in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



Compliance with ISO 9001 Standard on international quality system assurance on design, development, production, installation and servicing of a product.



Stamp of Approval from the U.S. Military for use in rough environment.



MOTOROLA ORIGINAL accessories



## SPECIFICATION SHEET



Motorola Tetra  
Portable Radio

## KEY ATTRIBUTES AND FEATURES

**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.

**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.

# MTP750