

MTP700  
MOTOROLA TETRA  
PORTABLE RADIO



The MTP700 further reinforces Motorola's focus and ongoing commitment to developing high quality, highly durable TETRA solutions for operational users in mission-critical or communication-vital environments. The performance of our second generation MTP700 radio builds upon the excellent functionality of our MTP300. It is lighter, smaller and has improved battery life, it also forms a key part of our total TETRA solution portfolio. The MTP700 is part of a family of TETRA communication devices along with our MTM700 mobile radio. The handset has been developed for the professional user who requires full integration of voice, data and encryption in one unit.

#### **Durability & Robustness**

Durability and robustness are paramount on the MTP700, it has passed our extremely rigorous Motorola Accelerated Life Testing which guarantees reliability, durability and extreme robustness.

#### **Audio Quality**

Loud and crisp audio no matter what environment you are in. The speaker is on the front of the radio, so wherever you choose to wear your MTP700, calls will still be clearly heard. In addition to this, a dedicated speaker and the separate earpiece ensures safe audio levels for both duplex and private calls.

#### **Battery Life**

The MTP700 enables you to work with confidence as the battery capacity easily outlasts a typical (or extended) shift, peace of mind is provided by the improved, highly accurate, battery gauge.

#### **Easy to Use**

The fundamental features of the handset are easy to access by logical controls:

- Rotary knob – easy to find and use
- Large, back-lit graphical display
- Three programmable keys – allow immediate operation of your most important features
- Dedicated emergency button

#### **State of the Art Technology**

The latest micro-processor technology provides upgrade capability. This helps to guarantee that your radio will always have the most up to date features.

## MTP700

### Motorola TETRA Portable Radio 380-430MHz and 806-870 MHz

#### GENERAL SPECIFICATIONS

Dimensions HxWxD	mm	138 x 55 x 39 (with standard Li Ion battery)
Weight	g	361 (with standard Li Ion battery) 330 (with lite Li Ion battery)
Battery Capacity	mAh	850 Li Ion 1200 Standard Li Ion 1200 NiMH 1150 NiMH FM approved
Operating life	Hours	With standard Li Ion battery
5/5/90		Up to 22
5/35/60		Up to 16
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

#### 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		B	
Receiver Static Sensitivity	dBm	-112	
Receiver Dynamic Sensitivity	dBm	-103	

\*please note all product features are subject to infrastructure support  
\*All specifications are subject to change without notice.

#### Accessories include:

- Choice of IMPRES™ batteries
- IMPRES™ single unit charger
- 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 MTP700 accessories brochure for further details.



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#### 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  
Air Encryption TEA2  
Radio Stun  
PIN/PUK code access

#### Data/messaging services supported:

Short Data Service (SDS)  
Alphanumeric Text Service  
Predictive Text Entry (iTAP)  
Built-in database enquiry templates  
Status messaging  
Packet data service  
Peripheral Equipment Interface (PEI) for external RS232 short and packet data devices

#### Other:

5 Languages (English, French, German, Spanish and Flemish)  
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  
Continuous rotary or end-stop talk group selection versions  
Dedicated emergency button  
3 programmable buttons  
Vibracall supported by enhanced remote speaker microphone