



The MTM700 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 Motorola's second generation MTM700 radio builds upon the excellent functionality of our first generation MTM300. The MTM700 is complimented by the MTP700 portable radio. The mobile 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 MTM700, it has passed our extremely rigorous Motorola Accelerated Life Testing which guarantees reliability, durability and extreme robustness.

#### **Audio Quality**

Superior audio specifications provide the users with crisp, clear sound. The audio quality is further enhanced by a range of high performance audio accessories.

#### **Easy to Use**

The fundamental features of the MTM700 are easy to access by logical controls:

- Large, clear graphical display
- Three programmable keys – allow immediate operation of your most important features (excluding Motorcycle version)
- Dedicated emergency button

#### **High Performance Data**

High performance data capability with short and packet data connectivity enables the MTM700 to interface fully with external devices facilitating a wide range of value added applications. The data box version has been specifically developed to provide easy interconnectivity for data applications.

#### **Versatile and adaptable**

Five different variations of the MTM700 are available to suit specific operational needs: the dashboard mount, remote mount, desktop mount, motorcycle version and data box.

#### **State of the art technology**

The latest processor technology provides upgrade capability which helps to guarantee that your mobile will always have the most up to date features.

## MTM700

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

#### GENERAL SPECIFICATIONS

Dimensions HxWxD	mm	49 x 170 x 155 (Radio only) 72 x 185 x 53 (standard Control Head)
Weight	g	1350 (Radio Only) 1650 (Radio with Control Head)
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%)
Standard control head		IP54
Motorcycle control head		IP57
Shock and vibration		MIL 810 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)	
Transmitter RF Power	Watt	3 (380-430) 3 (806-870)	
RF Power Control		4 Steps of 5 dB	
RF Power Level 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 are subject to change without notice.

#### Accessories include:

- Fist microphone
- Desktop microphone
- Telephone style handset with hang-up cup
- Choice of antennas
- Specialist accessories
- Data cable
- Visor microphone
- Key lock mount
- Desktop tray
- Desktop power supply
- RS232 data adapter cable
- Ignition sense kit
- External speaker 13 watts
- Compact external speaker 5 watts

Please refer to the MTM700 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

#### Voice Services supported – Private call:

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

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

Full duplex operation  
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  
Keypad lock

#### Data/messaging services supported:

Short Data Service (SDS)  
Alphanumeric Text Service  
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

#### Other:

Wideband RF operation (one model supports multiple RF bands)  
5 Languages (English, French, German, Spanish and Flemish)  
Keypad tones on/off  
Alert tones on/off  
Manual/automatic network selection  
Scan list edit via keypad  
External horn/light alert  
Ignition sense  
Backlight adjust  
Dedicated emergency button  
3 programmable buttons (excluding motorcycle)