

MTM700
MOTOROLA TETRA
MOBILE RADIO



MTM700



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 Portable 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

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)
- 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)



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