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MTM800E TETRA MOBILE RADIO (DISCONTINUED)
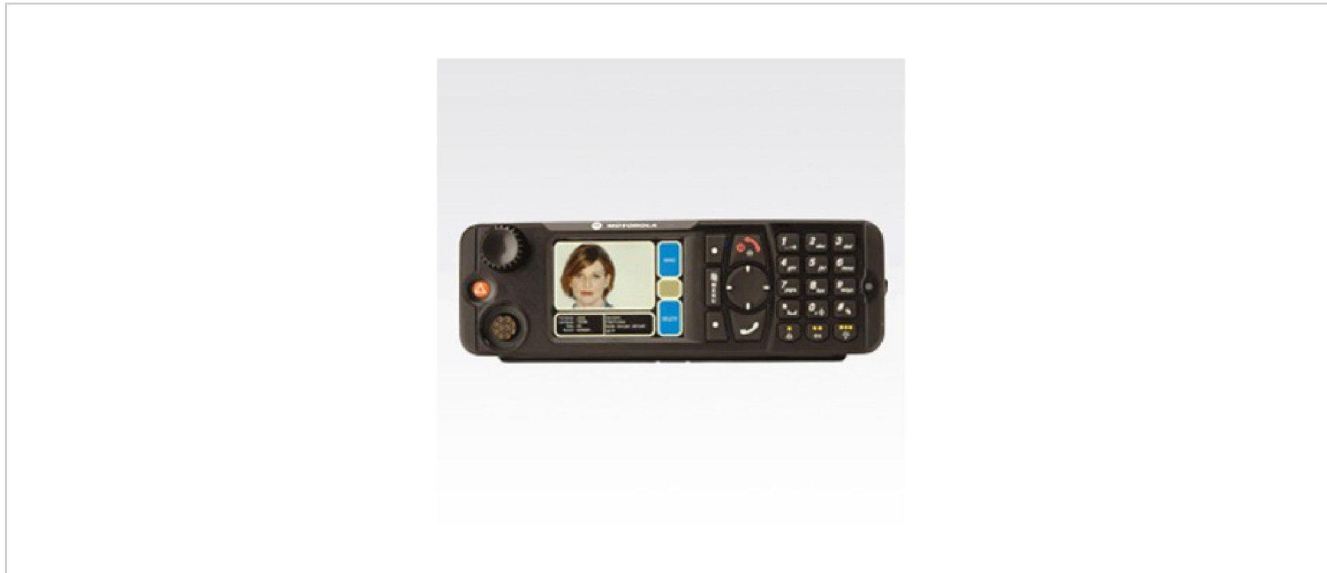
Motorola Solutions' MTM800 Enhanced TETRA control head set the standard for durability, performance and usability. Developed for organisations where rugged and versatile mobile radios are essential, it builds on the key components of Motorola's field-proven and trusted TETRA platform.

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FEATURES

SPECIFICATION SHEET

PHYSICAL CHARACTERISTICS

PERFORMANCE CHARACTERISTICS

RADIO FEATURES

USER ENVIRONMENT

VOICE SERVICES

TMO SERVICES

DMO SERVICES

EMERGENCY VOICE SERVICES

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DATA SERVICES

(/en_xu SECURITY FEATURES

GPS SPECIFICATIONS

RELATED PRODUCTS

Features

- Ease-of-operation in the most demanding situations – unsurpassed audio quality, intuitive keypad and high-definition, colour display combined with a sleek yet durable design
- Dust and water resistant to IP 54. Rain, salt, fog, and dust protection tested to MIL 810 C/D/E/F for the standard control head
- Motorcycle control head rated IP67 for dust and water resistance
- Comprehensive model options available – for use in the office, in a vehicle - car, boat, motorcycle
- User training and familiarisation easier by design. Features the same cellular-style menu, icons and colour display that have established Motorola's MTH800 handheld and MTP850 portable
- Multiple language capability – support for European, Arabic and Cyrillic characters (plus many others)
- Access and query information on the move – integrated WAP* browser and Multi Slot Packet Data provide unique, high-bandwidth connectivity for real-time access to mobile office applications and user database
- Tailor to specific requirements. Faster programming and connectivity via USB, ETSI compatible Peripheral interface (PEI) and programmable I/O ports* ensures tighter integration with third-party application
- Full suite of TETRA security functions – air interface, SIM card* and end-to-end encryption
- Receive assistance when and where it is needed – hitting the emergency button not only alerts colleagues to critical situations but sends and updates dispatch on the user's location
- Switch to covert mode at the press of a button
- Integrated GPS receiver delivers location based services. Knowing where your resources are enables you to allocate tasks based on up to date information
- Transform workflows and improve performance with the highest levels of network security, resilience and value available. Motorola's TETRA solutions leverage more than 85 years of excellence in the most critical and demanding environments.
- Stay at the forefront of TETRA development with a future-proof platform that meets the promise of the broadband world tomorrow.
- Build on the widest portfolio base in the industry. Motorola's in-house technologies, solutions and best-in-class business relationships deliver the complete TETRA solution.
- Compatibility and interoperability assured. As an early pioneer of TETRA, Motorola has been a driving force in standards' developments and product innovation.

Specification Sheet

TETRA Ear Microphone Spec Sheet
(/content/dam/msi/docs/business/product_lines/dimetra_tetra/_documents/_staticfiles/tetra_ear_microphone_s

Updated 2010/01/15 | PDF 298.95KB

Motorola Ear Microphone System: Compact, Durable Accessory that Meets Demanding Mission Critical Needs

TETRA Remote Speaker Microphone Spec Sheet
(/content/dam/msi/docs/business/product_lines/dimetra_tetra/_documents/_staticfiles/tetra_remote_speaker_m

Updated 2009/09/09 | PDF 348.02KB

TETRA iTM Spec sheet
(/content/dam/msi/docs/business/product_lines/dimetra_tetra/terminals/tetra_integrated_terminal_management

Updated 2015/08/28 | PDF 91.41KB

TETRA Integrated Terminal Management Specification Sheet

Physical Characteristics

Dimensions H x W x D (dash and desk)

60 x 185 x 175 mm

- **Display**

  Alphanumeric

Keypad

Yes

- **Dimensions H x W x D**

  49 x 170 x 155 mm (radio only), 72 x 185 x 53 mm (standard control head), 58 x 185 x 58 mm (Motorcycle control head)

Weight

1370 (radio only), 1670 (radio with control head), 448 (Motorcycle control head only)

- **Configurations**

  Motorcycle

Emergency button

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LFB00L

Yes
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Performance Characteristics

Encryption

Yes

Radio Features

Scan

Priority, Talk group

Call tones

True

Text messaging capable

Yes

Caller ID

Yes

Status calls

Yes

• **Emergency signalling**

Yes

• **Programmable buttons**

Yes

• **GPS capable**

Yes

• **Selective radio inhibit**

Yes

User Environment

Operating temperature

-30 to +60 (°C)

Humidity

ETS 300 019-1-5 Class 5.1 and 5.2; EIA / TIA 603 (95%)

• **Storage temperature**

-40 to +85 (°C)

• **Dust and water**

Dash / Desk / Remote IP54 (Cat 2); Motorcycle Control Head IP67 (Cat 2)

Voice Services

Talkgroups

2048 (TMO) & 1024 (DMO)

Scan lists

40 lists, 20 talkgroups / list

Transmit inhibit

Yes

• **Phone book**

1000 persons. Up to 6 number per entry – max 2000 entries

• **Ambience listening**

Yes

TMO Services

Private call

Half / Full Duplex (TMO)

DGNA

• **Telephony**

Full Duplex (TMO)

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up to 2047 groups (TMO)
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DMO Services

Group call

Late entry

• **Compatibility**

Gateway & Repeater (DMO)

Emergency Voice Services

Smart emergency

DMO / TMO / DMO to TMO

Location

Send on emergency

Alarm

Emergency Status

• **Hot mic**

Configurable timers

• **Emergency target address**

Individual or Group

Data Services

Status messaging

100 Alias messages

PEI

AT Commands; TNP1; enables simultaneous SDS & PD

• **Packet data (PD)**

7.2kbps - 28.8 kbps gross; Single or Multi Slot

• **Short data service (SDS)**

20 messages inbox; Individual or group target address; Send/receive during calls

Security Features

Air interface encryption algorithms

TEA2, TEA3, TEA1

Key provisioning

Secure provisioning tool (key variable loader KVL)

Authentication

Infrastructure initiated and made mutual by terminal

• **Air interface encryption security classes**

Class1 (clear), Class2 SCK), Class3 (DCK, CCK & GCK)

• **Network access**

Temporary enable disable (Stun), Permanent enable disable (Kill)

GPS Specifications

Simultaneous satellites

12

GPS antenna

Integrated in TETRA antenna

GPS accuracy

5 meter (50% probable)

• **Mode of operation**

Autonomous or assisted (A-GPS)

• **GPS sensitivity**

-152 dBm / -182 dBw

• **Location protocols**

ETSI LIP, Motorola LRRP

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Related Products

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(/en_xu/products/tetra/terminals/mtm5000/mtm5400.html)

Motorola Solutions MTM5400 DMO Gateway/Repeater (/en_xu/products/tetra/terminals/mtm5000/mtm5400.html)

The first of Motorola Solutions' third generation of TETRA radios, the new MTM5400 underlines the company's commitment to meeting the current and future needs of critical communications.

(/en_xu/products/tetra/terminals/mtm5000/mtm5500.html)

MTM5500 TETRA MOBILE RADIO (/en_xu/products/tetra/terminals/mtm5000/mtm5500.html)

The MTM5500 is a highly flexible and capable system radio which permits the installation of multiple control heads. Up to 40m from the radio for a total of 80m on a train or boat. The new Telephone Style Control Head provides an alternative method to control the radio and make voice and data calls.

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