	MTP850
Specification sheet	TETRA Handportable Terminal

GENERAL			
Dimensions HxWxD mm Weight	125 x 50 x 37.5 170 g 240g	(with standard battery) (radio only) (with standard battery)	
	Class 4 (1W) > 23 hours	Class 3L (1.8W) > 20.5 hours	
Duty Cycle (5/35/60) Talk Time		> 15.5 hours 2.5 hours	
RF SPECIFICATIONS	222 122 1 11		
Transmitter RF Power	380-430 MHz Class 3L (1.8W) & Class 4 (1W)		
RF Power Level Accuracy Adaptive Power Control	2 dB Δ and R		
Receiver Class	A and B		
Receiver Static Sensitivity Receiver Dynamic Sensitivity	-112 dBm minimum (-115 dBm typical) -103 dBm minimum (-107 dBm typical)		
ENVIRONMENTAL SPECIFICATIONS			
	-30 to +60 -40 to +85		
Humidity	ETSI 300 019-1-7 class 7.3E		
Dust and Water Ingress Protection Shock, drop and vibration	IP54 per IEC 60529 ETSI 300-019 1-7 class 5M3		
LICENSES/OPTIONS	ACCESSORIES		
Call-Out License GPS License	Antennas (stubby, whip) Battery (Li Ion 1850 mAh)		
Multi-Slot Packet Data License	Various carrying solutions		
WAP Browser License Enhanced Security License	Battery Chargers & Vehicle Ada Audio headsets	pters	
Permanent Disable License	Remote Speaker Microphones		
RUA/RUI License	Earpieces In-Vehicle Solutions		
Language & Keypad Options	Serial & USB Programming/Data Cables		
Air Interface Encryption Options End to End Encryption Options			
Class 3L (1.8W) License			
SECURITY SERVICES			
Authentication (Mutual)			
Class 1, 2, and 3 Air Interface Encryption (CESG Baseline)			
E2E Encryption (CESG Enhanced)			
MAIN DATA SERVICES			
Packet Data	WAP Browser (Image Browsing	3)	
Short Data	Multi-Slot Packet Data STATUS Messaging in TMO & DMO		
TNP1	SDS Messaging in TMO & DMO Short Data Applications Simultaneous operation of Pack		
	over a common Peripheral Equipment Interface (PEI) Full Set of AT Commands (including Voice Control)		
iTM			
LOCATION SERVICES			
Simultaneous Satellites GPS antenna	12		
GPS antenna Sensitivity	Helical integrated into TETRA a -152 dbm / -182 dbW	ntenna	
Accuracy	5 meter (50% probable)*		
	10 meter (95% probable)* ETSI LIP & Motorola LRRP		

Specification sheet

MTP850 TETRA Handportable Terminal

USER INTERFACE

Colour Display	130x130 pixel screen with 65,536 vivid colours Flip screen and large/x-large text & icon options Backlight
Screen Saver	gif image & text (any user's selection)
Universal Time Display	
Multiple Languages	
Keypad Lock	
Talkgroup Management	User friendly, flexible, efficient, fast
Talkgroups – TMO	2048
Talkgroups – DMO	1024
Talkgroup Folders	Dual layer folder structure (folder/subfolder) 256 folders
Favourite Folders	Up to 3 (to store any favourite talkgroup)
Menu	Tailored to user needs
	Menu Shortcuts
\	Menu Configuration
Contacts Management	Cellular Type (Rapid Search)
Contact List	up to 1000 contacts
	up to 6 numbers per contact, max 2000 numbers
Multiple Dialling Methods	user selects how to dial
Fast/Flexible Call Response	Private Call Response to a Group Call via One Touch Button
Vibrator & Multiple Ring Tones	
Message Manager	Cellular Type (Flexible)
Text message list	20
Intelligent Keypad Text Input	
Status list	100
Country/Network Code List	100
Scan lists	40 lists of 20 groups
User Controls	
Multi-function Rotary Knob	Volume, List Scroll, and/or Talkgroup Selection
One touch Buttons & Keys	each button key can be programmed with one
	of the multiple functions available
Adaptive Audio Control	Best audio profile for a given working environment

MAIN VOICE SERVICES

TMO	Private, PABX, PSTN, Emergency
TMO	Private, Group, Emergency
DMO	Private, Group, Emergency
	Inter-MNI, Gateway, Repeater
	Direct, Scroll, Speed, One touch but-
	Alpha Search, Call History Redial
Tactical	Emergency Group Call to ATTACHED
Non-Tactical	Emergency Group Call to DEDICATED
Individual	Emergency Call to PREDEFINED party
	(half/full duplex)
HOT MIC	talk without need to PTT (user enabled)
Status Msg	sent to dispatch console (user enabled)
DMO to TMO	enter DMO emergency (with/without
	gateway) or enter TMO emergency
	DMO Tactical Non-Tactical Individual HOT MIC Status Msg

e information contained in this brochure may be subject to change without further notice

- Product features may be subject to infrastructure support
- Selected features are subject to optional or future software upgrade





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www.motorola.com/tetra

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MTP850 TETRA Handportable Terminal

Versatile and adaptable voice and Data Communications





We test our terminals in our labs, not on our Customers

Motorola has been designing Mission Critical Communications for over 70 years and if there's one thing we've learned it's that Public Safety is a tough place to be.

Not just in the obvious places, like the fires or the major incidents, but it's a tough place every single day.

It's that experience that has taught us that all of our products need to be tough, 'every single Five years worth of being • Thermal Shock Test day' tough.



That's why we came up with our Accelerated Life

Our ALT™ and other programmes test our radios to simulate a full five years of hard use. shaken, heated, frozen, shocked, and soaked; 'consumer' years, but

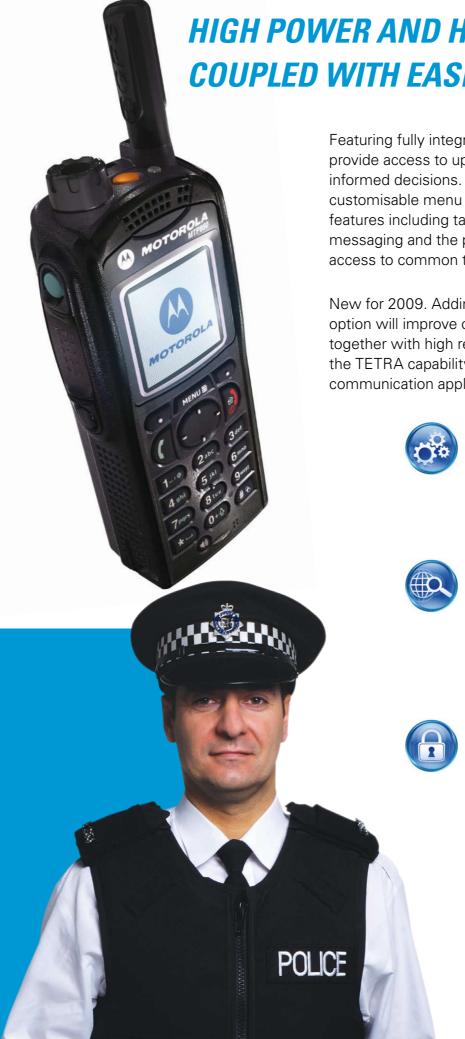
five 'mission critical'

years of hard use.

Durability is only one half • Drop Test - Dropped of the story, we test for terminals have to

- Frozen to -57°C for two hours, them heated to +80°C in less than fifteen seconds and kept there for a further two hours. This is then repeated a further five times in 24 hours.

onto a smooth concrete or steel surface. This is repeated and only passes if the terminal this includes the battery not falling off and providing continuous power to the terminal.

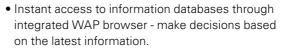


HIGH POWER AND HIGH SENSITIVITY **COUPLED WITH EASE OF USE**

> Featuring fully integrated voice and data services that can provide access to up to date information to make guick and informed decisions. The MTP850 also features a superior, customisable menu system with fast access to essential features including talkgroups, contact lists, mailbox, text messaging and the powerful 'My Groups' feature for rapid access to common talkgroups.

New for 2009. Adding Class 3L (1.8W) power output as an option will improve coverage in TMO and DMO usage. Taken together with high receiver sensitivity this gives the MTP850 the TETRA capability for the most demanding critical communication applications.

Improved productivity through:



 Update your availability and situation using Status Messaging - monitor the progress of job assignments, or call for support when needed

Improved resource management through:

- Ability to locate resources with state of the art integrated GPS receiver.
- Knowing where your resources are enables you to allocate tasks based on up to date information.
- Integrated Terminal management which automatically configures radios and uploads latest software.

Improved security through:

- Hitting the emergency button not only alerts colleagues to critical situations, but sends and updates your location, so help is sent when and where it is needed. GPS position is also relayed to the control desk when in Direct Mode Operation. Silent emergency enables the user to send emergency alerts without an indication on the screen. This will be vital in some high risk situations.
- Secure communications, whether inherent protection from TETRA digital signalling or encrypted communications. The MTP850 supports both TETRA Air Interface Encryption and for those with enhanced security needs -End to End Encryption solutions.

Terminal Services -**Ensuring Maximum Performance to Meet** vour Mission Critical Requirements

- Service Centre Excellence: We deliver. With our proven same day repair capability, you can be sure your equipment is expertly repaired and back in your end users' hands quickly. Using the latest tools and with strict adherence to Motorola engineering procedures, our European Radio Support Centre's expert technicians diagnose and repair units to original manufacturing specifications.
- Technical Expertise: Get answers to your technical questions, reduce downtime and improve issue resolution times. Experienced technical support engineers work with you to diagnose and resolve hardware and software problems resulting in swift resolution of issues for your end
- Customer Service: A single source for support delivered through our new state of the art call centre, available 24x7 to track customer issues and 8x5 for technical support. Ready to assist by telephone, e-mail or fax.
- Certified solutions: All our services are fully certified to comply with ISO, ATEX/ FM and CENELEC thereby providing the peace of mind that can only come from an experienced and trusted supplier
- Defined Service Level Agreements (SLAs): All Motorola services are offered to committed SLAs including turnaround

SAFETY AND **EFFECTIVENESS THROUGH**



(1) Class 3L Transmit Power and **High Receiver Sensitivity**

The MTP850 has been upgraded with a more powerful transmit power option. This will benefit the user with greater DMO and TMO range and in building coverage

(2) Designed to Deliver -**Designed for the Future**

The MTP850 comes with processing power to ensure users can take advantage of applications such as WAP and Multi Slot Packet Data.

(3) Personal Safety

Protecting your staff is vital. The MTP850 helps you achieve this, with its high quality voice calls, backed up by emergency calls with automatic location updates.

(4) True Colour - Truly Original

The MTP850 has a 130 x 130 pixel display capable of displaying over 65,000 colours - ideal for viewing high resolution images via your WAP browser.

(5) Secure Communications

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing through voice or data. The MTP850 provides security, from inherent protection of a digital system to the highest levels of security using Air Interface Encryption or an integrated End-

PERFORMANCE MATCHED ACCESSORIES

Professional radio users operate in varied and demanding conditions. Enhance your MTP850 with a wide range of Motorola Genuine.



your needs



Carry Options Motorola solution offers convenience and hands

free mobility



0+4

Batteries Genuine Motorola batteries designed to



Charging & Whether on your desk or

charging solutions