



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MOTOROLA MTH800. You'll find the answers to all your questions on the MOTOROLA MTH800 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MOTOROLA MTH800**  
**User guide MOTOROLA MTH800**  
**Operating instructions MOTOROLA MTH800**  
**Instructions for use MOTOROLA MTH800**  
**Instruction manual MOTOROLA MTH800**



**MTH800**

***TETRA Handportable Terminal  
Feature User Guide***



6802972C35-O  
11/08/2004



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All other product or service names are the property of their respective owners. viii Safety Information General Safety Information · This terminal meets the applicable safety standards if used as prescribed. All operating and safety instructions are to be followed carefully. CAUTION! Before using this product, read the Safety operating instructions for safe usage contained in the Product Safety and RF Exposure booklet, Motorola Publication part number 6866537D38 (for Europe, Middle East and Africa regions) or 6804110J47/6804113J24 (for Asia and Pacific regions), enclosed with your radio. · · · Motorola recommends the usage of Motorola approved accessories only. Only specialized workshops should be contacted for installation, maintenance and repair work. Keep this User Guide and the Product Safety and RF Exposure booklet in a safe place and make it available to other operators, and in case, that the radio is passed on to other people. Copyright Information The Motorola products described in this manual may include copyrighted Motorola computer

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Speaker Load Antenna Impedance 4.2 V 0.5 A 1 Watt 0.5 Watts at 8 Ohms 50 Ohms Operation Temperature Range -20° C to +60° C Operating Time Continuous / Intermittent Note: In general, the radio transmit and receive time (operating cycle time) is determined by the communication system.



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On overload, respectively on extensive use beyond the systems specifications at high ambient temperatures, the radio is protected by its thermal control, which cuts down the RF output power, thus reducing the radio coverage range.

2 Getting Started Congratulations on your purchase of the Motorola MTH800. Enhanced TETRA features and state-of-the-art technology help to keep you in constant touch with all of your work and personal contacts. You can operate your MTH800 in English, German, French, Spanish, Dutch, or in a language defined by your Service Provider. The default setting from factory is English. For more information, please see "Setting the Display's Working Language" on page 83. Getting Started How to Use this Guide This guide describes the MTH800 features as setup and preprogrammed at the factory. Your Service Provider or your organisation may have customised your MTH800 to optimise its use for your individual needs. Check with your Service Provider or organisation to find out the differences from this guide. Throughout the text in this publication, you will notice the following special notations used to highlight certain information or items: Example or Select More..

.> Networks > TXI Mode > Activate Contacts On Description Key presses are shown as a key symbol or in bold print for soft key functions. Indicates navigation in menu items. Highlighted text indicates the selection. Indicates the active setting. 3 Example Status Delivered Description Information appearing on the MTH800 display is shown in special print. Indicates a prompt or message configured by your Service Provider. A Note contains additional information which is relevant to the item feature. <User Defined> Installing the Battery 1. Remove the battery from its protective clear plastic case.

2. If necessary, remove the battery cover as shown below. 3. Insert the battery top into the compartment as illustrated. 4.

Carefully press the battery silver bottom downward until it clicks into place. 5. Replace battery cover. 4 Replacing the Battery 1. 2.

3. To remove the battery cover, push down the cover button. Slide the cover away. Push retaining clip up and then lift the top of the battery out. Replace the battery. Getting Started RETAINING CLIP Charging the Battery Motorola approved chargers provide optimum performance. Other chargers may not fully charge your Motorola Lithium-Ion battery or may reduce the life of the battery. The MTH800 can be either On or Off during charging. 1. Insert the connector on the charger into the socket at the base of the MTH800.

Select the required plug adapter (UK or European type) and connect to the charger. Then plug the charger into a suitable mains socket. 2. The MTH800 displays the Charger Connected message only if the MTH800 is On when connecting the charger. If the MTH800 is Off, the display shows an icon of the battery in charging. The Battery icon shows the charging status (see below). Empty Full Empty Full Battery Capacity Battery Charge Progress 5 Battery Capacity Information Information Green icon Yellow icon Red icon Empty icon Low Battery message Description Full (70% - 100% capacity) Middle (40%-70% capacity) Low (10% - 40% capacity) Very low (5%-10% capacity) Less than 5% capacity Battery Maintenance The performance of the rechargeable battery delivered with your terminal depends on the way the battery is treated. Therefore, to comply with the Motorola warranty for batteries and to assure high performance and a long life cycle of your Motorola rechargeable battery, please read and follow the maintenance rules stated below.

Storage Do not store your battery where the temperatures will exceed 65 °C or fall below -20 °C. New Lithium-Ion batteries (i.e. batteries that have never been charged before) may be stored for up to 2 years (with up to 50% of maximum charge) in well ventilated, cool and dry areas with some capacity loss in life cycle. Batteries, which have already been charged and then stored for more than 2 months should be recharged overnight (1416 hours) before use. 6 Extending Battery Life A battery is an expendable part and may need replacing during the life of the terminal. To ensure maximum service life of your handset, always replace the battery with a genuine Motorola replacement.

In order to ensure maximum life from your battery, do not place the handset and/or battery in the charger, unless you really want to charge the battery. Battery Charging Temperature Your charger will only charge your battery when it is at temperature range of 1 °C to 37°C. This is due to the fact that the internal battery cell can be charged in the temperature range of 0 °C to 45 °C. As the temperature gets colder (close to 0 °C) less capacity is stored in the battery. If, during charging, the temperature is out of range, the battery might not be fully charged since the charging is temporarily stopped until the temperature becomes suitable.

The range of battery operation is from 0 °C to +45 °C in charger mode and from -10 °C to +60 °C in discharge (application) mode. First Time Battery Charging Always charge your new battery/(whichever type) overnight (14-16 hours) before using it. This is referred to as Initialising and will ensure maximum battery start capacity. Battery Charging Rules Generally, to reduce the number of charge cycles as much as you can wait for Low Battery message to charge as this will ensure maximum battery life. Do not use your charger as a terminal stand or leave your terminal and fully charged battery connected to the charger whilst not charging. Continuous charging will shorten the battery life. 7 Getting Started Attaching the Antenna Turn the MTH800 Off before installing or removing the antenna. Insert the bottom of the antenna into the screw-in base on the top of the MTH800. Turn counter clockwise until snug. Do not force.

Turn counter-clockwise to attach 8 Controls and Indicators 21. Emergency Key (on top of the MTH800) 1. Antenna 20. Rotary Knob (on top of the MTH800) 2. LED 3. Top Microphone 4. External Antenna Connector (back of the MTH800) 19. Earpiece 17b. Programmable Side Key 18. PTT Side Key (at the side of the MTH800) Getting Started (at the side of the MTH800) 5.

Alphanumeric Display 6. Menu Key (at the side of the MTH800) 17a. Programmable Side Key 16. Soft Keys (2) 15. Send Key 14. Four-Way Navigation 7. On-Off/End/Home key 8. Audio Accessory Connector (at the side of the MTH800) Key 13. Speaker (under keypad) 9. Alphanumeric Keypad 10.

Bottom Microphone 11. Accessory Connector (at the base of the MTH800) 12. Speaker Control Key Number 1 2 3 Antenna LED (Indicator) Description Top Microphone Activated during half-duplex, high-audio calls such as Group Calls. 9 Number 4 Description External Antenna Connector Used with the digital car kit to connect the RF signal to the external antenna.



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(At the back of the MTH800) Colour Display Provides alphanumeric text and images within 65,536 colours and 130 x 130 pixels with backlighting and scalable fonts. Menu Key Used to enter the main menu and the context sensitive menu. On-Off/End/Home Key Press and hold to turn the MTH800 On/Off. Press to end calls. Press to return to the Home display (idle screen). Audio Accessory Connector (At the side of the MTH800) Alphanumeric Keypad Use the keypad to enter alphanumeric characters for dialing, contact entries and text messages.

Bottom Microphone Activated during half-duplex and full-duplex, low-audio calls such as Phone Calls. Accessory Connector Provides connection for accessories. (At the base of the MTH800) Speaker Control Key Selects earpiece (low audio) or speaker (high audio) Speaker (under keypad) Four-Way Navigation Key Press up, down, left or right for list scrolling, while moving around the menu hierarchy, or for alphanumeric text editing. Send Key Used to initiate or answer full-duplex calls (such as Phone Calls), or send status and text messages. 5 6 7 8 9 10 11 12 13 14 15 10 Number 16 Description Soft Key(s) Press to select the option that appears in the display directly above the left or right soft key. Programmable Side Keys 1 and 2 Default programming: upper Side key activates/deactivates Backlight; lower Side key activates Screen Saver. (See also No. 19) Push-To-Talk Button (PTT) Press and hold this side button to talk in half-duplex calls, release it to listen. Press to send status and text messages. Earpiece Programmable Rotary Knob Default programming: "Dual" - Press the knob to toggle between "volume" and "list".

Side keys (No. 17) operate as programmed. Programmable Emergency Button (on top of the MTH800) Press and hold to enter Emergency mode, and send Emergency Alarms (as programmed). Press and hold to start an Emergency Private Call (half-duplex or full-duplex). When the MTH800 is Off, press and hold to power on in Emergency Operation or in standard mode (as programmed).

17 Getting Started 18 19 20 21 Before using your MTH800 for the first time, remove the plastic lens protector from the display, and charge battery overnight to ensure battery is initialised to it's full capacity. Powering On/Off (On-Off/End/Home Key) To power On, press and hold . Your MTH800 performs a selfcheck and registration routine. After successful registration, the MTH800 is in service. To power Off, press and hold .

You will hear a beep and the Powering Off message is displayed. 11 Powering On (Emergency Button) Press and hold the Emergency button to power On. The MTH800 will power On in Emergency Operation or in standard mode (as programmed). Powering On with Transmit Inhibit (TXI) Active Transmit Inhibit is a feature allowing you to switch off transmission before entering a Radio-Frequency (RF) sensitive area. To activate this feature, press MENU and select More...> Networks > TXI Mode > Activate. ! WARNING Pressing the Emergency button, even if Transmit Inhibit is activated, causes the MTH800 to transmit immediately. The MTH800 must NOT be within the RF sensitive area when entering Emergency Operation.

The TXI Mode remains active at power On. You will be asked whether to leave the TXI Mode On or not. ! WARNING Ensure you have left the RF sensitive area before deactivating Transmit Inhibit. Press the Yes key to deactivate the TXI Mode. If the MTH800 was previously used in Trunked Mode, it will register to the network. If the MTH800 was previously used in Direct Mode, it will remain in Direct Mode. Press No in Trunked Mode and the MTH800 powers down; press No in DMO and you remain in DMO with TXI selected. Unlocking the MTH800 Your MTH800 may be locked at power up. To unlock the MTH800 after powering on, enter the code at the prompt. The MTH800 enters the default Home display.

The unlock code is originally set to 0000. Your Service Provider may change this number before you receive your terminal. 12 Locking/Unlocking the Keys/Buttons Press MENU . When there is an incoming call and the keypad is locked, you can still use PTT, Rotary knob, , and . The Emergency button is not locked.

Pressing the Emergency button unlocks all keys. Getting Started Selecting Your Network Before you start operating your MTH800, you can select the network you want your MTH800 to be registered to. For detailed information, see "Networks" on page 101. How to Hold Your MTH800 The terminal has two microphones: a top microphone for half-duplex dispatcher calls and a bottom microphone for full duplex telephone-like calls. A call can be placed in high or low audio.

To activate low or high audio, see page 21. In high audio the user transmits via the top microphone and listens via the internal speaker. In low audio the user speaks into the bottom microphone and listens via the earpiece. Group and Private Calls are half-duplex calls and can be placed in high or low audio. Phone, PABX, and full-duplex Private Calls are placed in low audio. The speakerphone feature allows to hold Phone, PABX, and full-duplex Private Calls via the MTH800 internal speaker. 13 Use in Low Audio (Phone, PABX, and Full-duplex Private Calls) When placing or receiving a call and while speaking, hold your MTH800 as you would a telephone. Speak into the bottom microphone. Listen via the earpiece. Keep antenna at least 2.

5 centimetres from your head and body. Use in High Audio (Group and Private Calls) Hold MTH800 in a vertical position with its top microphone 5.0 to 10 centimetres away from your mouth. Speak into the top microphone. Listen via the terminal's internal speaker. Keep antenna at least 2.5 centimetres from your head and body. Lapel/Shoulder Use For Group and Private Calls turn your head towards your shoulder/lapel, and speak directly into the top microphone.

Listen via the terminal's internal speaker. Speakerphone Use Place the MTH800 30 to 60 centimetres away from you.

In a noisy environment, you may want to move the MTH800 closer to you for better transmission. Looking after your MTH800 Never leave your MTH800 or battery in extreme temperatures (over 60 °C)--for example, behind windscreen in very hot, direct sunlight. Do not immerse your MTH800 in water. To clean your MTH800, use a moistened or antistatic cloth. DO NOT use a dry or electrostatically charged cloth.

14 The Display Home (Idle) Display A powered-on, idle terminal shows the following typical Home display: Trunked Mode Home Display status icon area Direct Mode Home Display Network 1 Folder 1 Talkgroup 1 Hello Optns Contcs Getting Started text display area DMO Folder 1 Talkgroup 1 Hello Optns Contcs soft key area menu/context sensitive icon Status Icons Status icons appear when your phone is engaged in certain activities or when you have activated certain features. Status Icon Trunked Mode Operation Signal Strength (TMO) Allows you to check signal strength.



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More bars indicate a stronger signal. Description No Service Scan Indicates scanning is activated in the MTH800. Data Connected Displayed when the MTH800 is successfully connected to an external device and ready for data transfer.

Data Transmit/Receive Displayed when the MTH800 is transferring data to/receiving data from the external device (laptop or desktop PC). Direct Mode Operation Signal Strength (DMO) Indicates an incoming Direct Mode Group Call. 15 Status Icon Direct Mode Description Displayed when the MTH800 is in Direct Mode. DMO Gateway Indicates that gateway is selected. The icon has three states: Solid--while the MTH800 is synchronised with the gateway. Flashing--while the MTH800 is not synchronised or during attachment. No icon--during a radio to radio call, i.e. not using a gateway. General Icons All Tones Off Indicates that all alert tones are off in the MTH800.

Vibrate On Indicates that the MTH800 will vibrate to alert you of an incoming call. Vibrate and Ring Indicates that the MTH800 will vibrate and ring to alert you of an incoming call. Speaker Off (Low Audio) Indicates that the audio will sound through the earpiece. (See detailed explanation of Speaker Control Key.) Battery Strength Shows the charge in your battery. Full icon is full charge. Emergency Appears while the MTH800 is in Emergency Operation. List Scrolling Displayed to indicate that the Rotary knob use is list scrolling, as long as this use is selected. New Message Has Arrived Indicates a new message just arrived.

New Message(s) in Inbox Indicates that you have unread messages in your Inbox.

16 The LED Status Indicator The LED indicator shows the in-service states of your MTH800. Please refer to the table below. Indicator Solid green Flashing green Solid red Flashing red Solid orange Flashing orange No indication In use Status Getting Started In service Out of service Connecting to a network/ Entering DMO Transmit Inhibit (TXI) in service/ Channel busy in DMO Incoming call Switched off Key, Knob, and Button Overview Soft Keys Press or to select the option that appears in the screen directly above the left or right soft key. In this example, Contcs is displayed above the key. Pressing enters the contact list.

In the user guide, this action is described as "press Contcs". Network 1 Folder 1 Talkgroup 1 Hello Optms Contcs Menu Key Press MENU to enter: · The menu (when there is no on-going activity). The MTH800 menus allow you to control your MTH800 settings. Menus are organised in a hierarchy. See "List of Menu Items" on page 71.

The menu options provide access to a further list of options called a sub-menu. 17 · The context sensitive menu (when a list of items for the current menu. icon is on) to view Examples of Menu and Sub-menus: The example below shows how to setup the Vibrate function in the terminal. 1st Sub-menu Main Menu Messages Contacts Security Setup More... Select Back 2nd Sub-menu Setup Vibrate Ring Style Set Volume Language Data Setup Select Back 3rd Sub-menu Vibrate Vibe & Ring Vibe Only Ring Only Details... Select Back Network 1 Folder 1 Talkgroup 1 Hello Optms MENU Contcs Example of Context Sensitive Menu This example shows the screen when editing a name listed in the contact list.

From the Home display, press Contcs. Scroll to the name Contacts [New Contact] David Ann Ray 2255 Select Back MENU Contacts Menu Edit Delete number Delete contact New contact Capacity Select Back you wish to edit. Press MENU . The context sensitive menu opens up, allowing you to choose among the entries. Rotary Knob The Service Provider can program the Rotary knob to one of the following uses: 1. Dual Control - the knob is used as both a Volume control and to scroll through Lists. Press the knob to toggle between Volume and List (default programming). 2. List Control - the knob is used to scroll lists or menu items. In this case volume control is always via the Side keys.

3. Volume Control - the knob is used only as a volume control; turn clockwise to increase the audio volume level. 18 Press and hold the Rotary knob to lock it, press and hold it again to unlock. Powering Off also unlocks a locked Rotary knob. Emergency Button Press and hold this button to enter Emergency Operation.

When the MTH800 is powered down, press and hold this button to power On in Emergency Operation (if configured by your Service Provider). See "Emergency Operation" on page 54. Getting Started Function Keys For information on the function assigned to each Side or Numeric key, please refer to your Service Provider. The required time you need to press the Side or Numeric keys to activate a one-touch function is set as default to 1 second. This time may be set, however, by your Service Provider.

Side Keys The Rotary knob and Side key programming are paired: Rotary Knob Programming Dual Control List Control Volume Control Side Key Programming Programmed to a one-touch function : Volume Up : Volume Down Programmed to a one-touch function When the Rotary knob is programmed to Volume Control or Dual Control, the Side keys support the one-touch feature that allows you to select or activate commonly used features by pressing and holding a single key. By default, the upper side key is set to "Backlight On/Off" and the lower side key is set to "Screen Saver On". Please check with your Service Provider. 19 Programmable Numeric Keys The MTH800 supports the one-touch feature that allows you to select/activate commonly used features by pressing and holding a numeric key. Your Service Provider should program the numeric keys with the relevant features. The following table lists the programmable features and their availability in specific MTH800 states/modes. For detailed information on the features, see the relevant section in the user guide. Feature Talkgroup Switch Talkgroup Scan Home Revert DMO/TMO Status Message Text Message Template Call Dial (Private, Phone, PABX) Vertical Flip Display Transmit Inhibit (TXI) Screen Saver Backlight Adjustment Description Switch to a specific talkgroup Toggles on/off the Talkgroup Scan function (TMO only) Puts the MTH800 back Home display. Toggles between DMO and TMO Sends a dedicated status message to a dedicated address (TMO only) Sends a predefined/user defined template to a dedicated address (TMO only) Initiates a call to a predefined entry in the contact list (TMO only) Toggles on/off vertical flip Toggles between activated and deactivated TXI Mode. Activates screen saver.

Toggles on/off backlight. If dialing via one-touch numeric key is enabled, one-touch dial is disabled (see page 52). 20 To use the one-touch feature: · Press and hold the required numeric key for a few seconds. · Your MTH800 will display the number and act according to the programmed feature. Speaker Control Key Press to activate the earpiece (low audio) or speaker (high audio), depending on the menu settings.



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Type of Call Half-duplex call (Group\*/Private) Getting Started Menu Setting Menu > Setup > Group Audio > Spkr Cntrl Menu > Setup > Group Audio > Always Loud Key Use Speaker On/Off for Group and Private Calls Speaker On/Off for Private Call Controls speaker/earpiece of the on-going call, Full-duplex call (Private/Phone/ PABX ----- \* In an Emergency Group Call, the voice sounds from the speaker regardless of the speaker setting. Aliases (Names) Aliases are optional names that you can assign to stored phone and private numbers (or IDs). To edit an alias, see page 76. Aliases can be up to 12 characters in length and may consist of letters, numbers, and spaces. Aliases are displayed during contact list scrolling or during an incoming call. Aliases are also used in alphanumeric search to retrieve numbers from your memory list. 21 The following screens show examples of how the caller's private number can be displayed. or Prvt In Use 180 Prvt In Use Simon 180 Private ID without alias Private ID with alias Screen Saver If your Service Provider configured this feature, the screen saver will automatically cover the MTH800 display after the MTH800 stays idle for a pre-programmed period of time. If you press a key or a call arrives, the screen saver is deactivated and the MTH800 resumes standard operation. You can also activate this feature manually, by pressing the relevant pre-programmed button (either a side button or numeric key).

For example, if manually activated during a group call, the screen saver allows to hide the caller's identity for confidentiality. The screen saver consists of a logo and an alphanumeric text. Check in the menu options whether the Service Provider has given you the capability of entering your own screen saver text (see page 88). Home Display Text Message Your MTH800 is provided with a feature that allows your Service Provider to send special <Home display text messages to your MTH800 display. text> The message is displayed when your Optms Contcs MTH800 is idle.

The message will stay on your MTH800 display until a new message is received. If configured by your Service Provider, your MTH800 will display an internal Home display until another message is received. 22 Terminal Disable/Enable Your MTH800 is provided with a feature that allows your Service Provider to disable it temporarily in case it is stolen. When your MTH800 is disabled, no calls can be initiated or received. While your MTH800 is disabled, it will look and act like it is turned Off. If you try to turn your MTH800 On, when it is disabled, it will operate as described above. If your MTH800 is found, your Service Provider can reenable it. After your MTH800 is re-enabled, you may resume normal operation. Getting Started Selecting TMO or DMO Operation General In Trunked Mode Operation (TMO) the MTH800 is used with the infrastructure services within system coverage. In Direct Mode Operation (DMO) the MTH800 is used without infrastructure services required.

While operating in DMO the propagation travels directly from the transmitting terminal antenna to the receiving terminal antenna, with no assistance from any base station or tower. Therefore, the range is critically dependent on the position of the user and the antenna. To achieve best results, hold the terminal in the hand as high as comfortably possible, and be sure not to obstruct the antenna in any way. Be sure that the antenna is clear from the body, cables, or other obstructions. As there is no tower-mounted base station to assist, and the two users are usually standing at ground level, the range is usually shorter than that can be achieved towards a tower or hilltop. Any obstructions (hills, buildings, etc.) between the users will further decrease the range. Conversely, raising the terminal higher or moving to a higher location may improve the range. 23 A MTH800 in DMO can communicate with the trunked system (and vice-versa) through a gateway device. To use that feature, please enable the gateway option in your MTH800 (see "Making a DMO Group Call via Gateway" on page 43).

In DMO it is only possible to place Group calls and Emergency Group Calls. Entering TMO or DMO Enter TMO or DMO in one of the following ways: · From the Home display press Optms and select Direct Mode if the MTH800 is in TMO. · From the Home display press Optms and select Trunked Mode if the MTH800 is in DMO. · Press and select More..

·> Networks > Trunked Mode if the MTH800 is in DMO. MENU · Press and select More...

·> Networks > Direct Mode if the MTH800 is in TMO. · Press the TMO/DMO one-touch button (if programmed by your Service Provider). MENU Your terminal can alert you of an incoming call. Select the alert settings in the Vibrate menu and Tones menu items. TMO Calls You can make and receive the following types of calls when the MTH800 operates in Trunked Mode: · Group Calls · Private Calls · Phone Calls · PABX Calls--local (office) extension calls · Emergency Calls 24 DMO Calls You can make and receive Group Calls when the MTH800 operates in Direct Mode (DMO). This includes Emergency Group Calls. The MTH800 returns to the Home display when there is no activity for a few seconds. Making Calls See the relevant sections in the user guide. Getting Started Modifying the Type of Call The infrastructure can modify the type of call you started. For example, you might start a half-duplex Private Call, and the infrastructure could modify the call to a Group Call.

The terminal will alert you of the modification and will display the following messages, depending on the type of call: · Call Modified (to full-duplex) · Call Modified Use PTT (modified to half-duplex) Continue the modified call depending on the type of call. · Half-duplex Private Call modified from direct setup to hook setup: a ringing tone will alert of the change. · Half-duplex Private Call modified from hook setup to direct setup: there will be no indication of the change. Receiving Calls The MTH800 will automatically receive the incoming call. Additionally, if Inactivity Revert Mode is enabled, the MTH800 returns automatically to the Home display, after that call ends. Inactivity Revert Mode will occur if configured by your Service Provider. 25 Your MTH800 will alert you of an incoming call depending on the setting you selected in the Vibrate menu option (see page 81) and the Tones menu option (see page 85). During message editing, you will be alerted of an incoming Group/Emergency/Broadcast Group Call if configured by your Service Provider. Preemptive Calling Preemptive calling is particularly useful when you need to speak urgently with a user whose terminal is busy in a nonemergency voice call. A preemptive priority call (PPC) is either an Emergency Group Call or a Private PPC (half-duplex or full-duplex call).



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The feature allows to disconnect the on-going lower priority call and to connect to the incoming higher priority call. To place a PPC, see the Emergency Operation and Private Call sections in the user guide. The MTH800 will receive the call via speaker or earpiece, according to the setting used when the PPC is received. For call alert, see settings in the Vibrate menu option (page 81) and the Tones menu option (page 85). Receiving a PPC is explained in the following paragraphs.

In the screens, <Any> in Use refers to any of the nonemergency voice calls: Group, Private, Phone, or PABX. 26 Receiving an Emergency Group Call during a Call The MTH800 receives the Emergency Group Call, drops the on-going non-emergency voice call, and connects to the Emergency Group Call. <Any> in Use Emgcy In Use ID:David Talkgroup 1 Getting Started Optms Receiving a Private PPC during a Call If configured by your Service Provider, the MTH800 receives the PPC, drops the on-going, non-emergency, lower priority voice call, and connects to the higher priority Private Call. A PPC with lower or equal priority, will be dropped without any indication to the called user and will enter the missed call list. A PPC Call with Emergency Call priority will be displayed on the screen as "Emergency" (instead of "Priority").

Half-duplex Private PPC Received Call Preempted <Any> in Use Priority Private Call David 2234 Press PTT Priority Prvt In Use David 2234 Full-duplex Private PPC Received Call Preempted <animation> <animation> <Any> in Use Prvt Priority David 2234 Press any key Priority Prvt In Use David Mute Spkr Mute Spkr 27 Broadcast Call The Broadcast Group Call (also called Site Wide Call) is a high-priority group call from the console operator (or dispatcher) to all users located at one or more sites. The terminals are configured to monitor a Broadcast Call, but the users cannot talk back. The call can be received as normal Broadcast Call or Emergency Broadcast Call. The Broadcast Call preempts an on-going Group Call that has the same (or lower) call priority. Emgcy In Use David Broadcast Group In Use David Broadcast Optms Optms For selecting a talkgroup during a broadcast call, see "Selecting a Group" on page 33. For changing folder during a broadcast call, see "Selecting a Folder" on page 35. Ambience Listening (AL) This feature, if enabled by your Service Provider, allows a console operator (or dispatcher) to establish a special call with a specific terminal to monitor voice activity in the local vicinity. The call is setup without any indication to the affected terminal, and any lower priority ongoing voice call or packet data transfer may be pre-empted. After accepting the call, the terminal transmits in a halfduplex Private Call without any action from or indication to the user. The Ambience Listening call shall automatically end when the user initiates any voice call and uses the terminal normally.

28 Cancelling a Call Choose one of the following, as relevant: · Press . If you wish to make a new call, start it at once. · Wait to answer the call. After a time-out set by your Service Provider, the call number will be forwarded to the missed call list. · Press Reject soft key (displayed in an incoming full-duplex call). The call number will be forwarded to the missed call list. Getting Started Using In-call Features Handsfree Speakerphone The speakerphone feature allows you to hold impromptu meetings in Phone, PABX, and full-duplex Private Calls. During speakerphone operation, you may either speak or listen, but you cannot do both at the same time. 1. 2.

<animation> Phone In Use David 06754321 Mute Spkr 3. To activate speakerphone, press Spkr. The display shows Speaker ON. Place the MTH800 30 to 60 cm away from you. In a noisy environment, you may want to move the MTH800 closer to you for better transmission.

To de-activate speakerphone, press Erpce. The display shows Speaker OFF. To burst into conversation while the other party is talking, press and hold PTT. You will hear a tone. Start talking, and release PTT to listen again to the other party.

29 Muting/Unmuting the Bottom Microphone During a Phone, PABX, or full-duplex Private Call, use the mute feature to: · hold conversation without being heard by the caller · silence possible background noise in your area. 1. Press Mute. The display shows Mute is ON. The microphone is muted. You can hear the incoming audio, but the caller cannot hear any speech coming from your MTH800. To speak, press Unmut. The display shows Mute is OFF. The microphone is on. 2.

Local Area Service This mode, also called Fallback Mode, allows more than one terminal from the same site to communicate when the link between the site and network central controller fails. Entering and exiting Local Area Service (that is, returning to System Wide Services) is done automatically. Entering Local Area Service When the MTH800 receives a Local Area Service indication from the system, the following occurs: · · · · The MTH800 sounds a tone. The display shows the "Local Area Service" message. Display icons and soft keys turn brown. Any call in progress is dropped upon entering Local Area Service mode. If configured by your Service Provider, this message/alert is periodically repeated to remind you that the MTH800 is still operating in Local Area Service mode. The following features are available while the MTH800 is in Local Area Service: · · · · · 30 Registration Attachment Group Call Emergency Call Emergency Alarm Exiting Local Area Service When the link with the central network controller is reestablished, the MTH800 exits Local Area Service and the following occurs: · the MTH800 sounds a tone · any call in progress during Local Area Service is dropped. Getting Started 31 TMO Group Call General A Group Call is an instant communication between you and others in a talkgroup that you select. Participants may join (late entry) and leave an on-going Group Call.

A talkgroup is a pre-defined set of subscribers enabled to participate in and/or invoke a Group Call, that is set up by your Service Provider. Talkgroups appear on your display as names or numbers (for example: Sales, Service, Electricians, Talkgrp10). Talkgroups are divided into folders. Each folder may contain several talkgroups. For ease of use, your MTH800 also provides the ability to: · Perform an alphabetical search of the talkgroup aliases. Scroll through the entire talkgroup list. · Organise your favourite groups into one folder called My Groups (set up by your Service Provider). Your talkgroups may be organized into scan lists (set up by your Service Provider, or by yourself through the Menu). When you activate one of these scan lists, your MTH800 will continuously monitor the activities of the selected talkgroups.



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By assigning priorities to the talkgroups defined in the scan list, you will be capable of accepting calls that have higher priority than the on-going call. You can start talkgroup, folder, or scanning selection when the terminal is idle or receiving a call. When receiving a call, choose one of the following: · Exit selection screen to join the call. · Join the call from the selection screen by pressing PTT. · Continue selection. 32 Each talkgroup may have one associated Announcement Talkgroup (ATG) that it monitors (if set up by your Service Provider). An ATG is a special group which is linked to a number of talkgroups and has the highest priority level, thus enabling broadcast of the call to all these talkgroups. When an ATG is selected, the scanning icon is not displayed. The MTH800 monitors the ATG scan list instead of the selected scan list. The ATG scan list contains all the talkgroups associated with a selected ATG. Your Service Provider should advise what talkgroups are associated with which Announcement Talkgroup.

Your MTH800 will always monitor the Group Calls in the ATG scan list. To place an Announcement Call, you must first select the specified Announcement Talkgroup as advised by your Service Provider, otherwise you will only be able to participate when an Announcement Talkgroup is received. Activation and deactivation of talkgroup scanning has no effect on the ATG scan list. TMO Group Call Dual Microphone Feature See "How to Hold Your MTH800" on page

13. Selecting a Group You can select a talkgroup in one of the following ways, by using the: · Rotary knob · navigation key · alphabetical search feature · folder search For group scrolling configuration, see page 35. When you navigate in the "My Groups" folder and select a DMO group, your terminal will switch between TMO and DMO (and vice-versa). 33 Using the Rotary Knob (If configured by your Service Provider) From the Home display, press shortly on the Rotary knob and rotate until the requested group appears. Group selection occurs: · After a time-out, · Or, by pressing Select (if configured by your Service Provider). Using the Navigation Key From the Home display, scroll left or right until the requested group appears. Then press Select to confirm selection.

Pressing the PTT will also choose the group automatically and start transmission. Using Alphabetic Search From the Home display, press Optns. Select a group by alphabetic search ("TG by abc"). Enter the first character of the group's name. Select the group.

Using Folder Search From the Home display, press Optns. Select a group by folder search ("TG by Folder"). Select the folder and select the group. 34 Selecting a Folder You can select a folder by using one of the following: · the Rotary knob (if configured by your Service Provider) · the navigation key Using the Navigation Key When using the navigation key to select a folder, press Select to confirm the selection. To Select a Folder From the Home display, press Optns.

Select Folder, and select the desired folder. The display shows the last selected group in that folder. "My Groups" Folder You can organise your favourite groups into one folder called "My Groups". Selecting My Groups From the Home display, press folder. to quickly access the TMO Group Call Adding/Deleting Groups from My Groups For more information, see "My Groups (TMO/DMO)" on page 95. Group Scrolling Configuration Your Service Provider can configure scrolling via rotary knob or navigation key as follows: · Scroll to next folder--when the folder end is reached during group scrolling, further scrolling switches to the group list in the next folder. For example: Folder 1 has Group11 and Group12. Folder 2 has Group21 and Group22. Group11, Group12, Group21, Group22 will appear during scrolling. OR 35 · Stay in folder--when the folder end is reached during group scrolling, further scrolling restarts the folder group list.

To move to the next Folder, you should select it. For example: Folder 1 has Group11 and Group12. Folder 2 has Group21 and Group22. Select Folder 1: Group11, Group12, Group11, Group12 will appear during scrolling. Change to Folder 2: Group 21, Group 22, Group 21, and Group 22 will appear during scrolling. In addition, your Service Provider might configure the rotary knob as follows: · End-Stop Rotary Knob Scrolling--the rotary knob will stop when it reaches the last group in the folder, and a tone will alert you that you have reached the last group in the folder. Use the navigation key to continue scrolling through the list. Activating/deactivating Scanning See "Setting Group Scanning" on page 91. Making a Group Call 1. 2.

From the Home display and if this is the required group, press and hold the PTT. Wait for the talk permit tone (if configured) and then speak into the microphone. Release the PTT button to listen. Network 1 Folder 1 Police Hello Optns Contcs When you start a call, all members of the selected group who have their units turned on, will receive the Group Call. If you are in an on-going Group Call and wish to make a new call, press new call. to ignore the current call. Start the Group In Use Folder 1 TG4 Optns Folder 36 The "No Group" message is displayed when you are out of the normal coverage area of your selected group. You must then select a new group that is valid for your working location. Receiving a Group Call General Unless it is engaged in a call, your MTH800 will receive the Group Call. To answer the call, press and hold PTT.

Your MTH800 shows the Group name and the caller's private number or name if previously stored in your contact list. The following screens show examples of how the caller's private number (ID 124) is displayed. Group In Use ID:124 TG4 OR Group In Use Folder 1 TG4 TMO Group Call Optns Folder Optns Folder Private ID without alias Private ID with alias For incoming call alert, see settings in the Vibrate menu option (page 81) and the Tones menu option (page 85). Any incoming Group call is ALWAYS received through the main speaker. If configured by your Service Provider, the Group Audio menu item allows to setup the audio of the incoming Group Call. If the setup is Speaker Control, you can direct the audio of an active group to the earpiece (low audio) or the main speaker (high audio). In low audio speak into the bottom microphone and listen via the earpiece. In high audio speak into the top microphone and listen via the speaker. At the end of a call which has been directed to the earpiece, an audio hang timer is activated, if it is enabled by your Service Provider. Within the preprogrammed hang time, any incoming call is still received through the earpiece.

When the timer expires, a low pitch tone is emitted alerting you that the next incoming Group call will be received through the speaker.



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Upon hearing this alert, you are advised to hold the terminal at a comfortable distance away from the speaker. 37 When receiving a Group call, you will hear a "New Group Call" tone (if configured by your Service Provider). Receiving a Group Call in Idle Screen with Scan Off You can receive a group call from the selected talkgroup or from the associated ATG only. Your MTH800 will receive the Group Call. Group In Use TG4 ID: David Receiving a Group Call in Idle Screen with Scan On With Scan On, you can receive a group call from the scan list you set up, in addition to receiving a group call from the selected talkgroup or from the associated ATG. Receiving the scan call functions as receiving an associated ATG or selected call in scan off (see previous page), except for the following: Optms Folder Group In Use TG4 ID: David Optms End · The display is different when receiving the call in idle screen, as shown here. · The terminal sounds a tone as explained in the note below. · When receiving a High Priority Group Call, you will hear a "High Priority Group Call" tone (if configured by your Service Provider). · When receiving a Group Call from your scan list, which is not from a high priority group, you will hear a "New Group Call" tone (if configured by your Service Provider).

· To block reception of a Group Call, select Optms then Block. Powering off/on the terminal unblocks the reception of this Group Call. 38 Receiving a Group Call during an On-going Group Call Depending on how the Service Provider has configured incoming calls, the incoming call will either be: · Forced upon you and will interrupt the on-going call (if the incoming call has higher priority than the on-going call). or · Presented to you (if it has higher priority than the on-going call). To accept the call, press Join.

Group In Use TG4 To cancel the call, press End. ID: David Receiving an Emergency Group Call For detailed information, see page 27. Join End Receiving a Broadcast Call For detailed information, see page 28. Transmit Inhibit You can activate the Transmit Inhibit (TXI) Mode before entering RF sensitive areas, e.g.

in hospitals or in potentially explosive areas, where safety can be jeopardized due to MTH800 transmission radiation. Radiation of the MTH800 is only suppressed if the TXI Mode is activated or the MTH800 is separated from power supply. TMO Group Call In TXI Mode the MTH800 will not transmit under any circumstances, except for the Emergency Call, which can be initiated even if the MTH800 is in TXI Mode. All MTH800 functions and keys which cause transmission, e.g. registration to the network, change of talkgroup or folder, sending messages, pressing PTT, etc. are disabled. In this case the display shows "Not Allowed In TXI Mode" and the MTH800 sounds the "Transmit Inhibit" tone. 39 When no danger to safety exists anymore (for instance if you leave the RF sensitive area), the TXI Mode can be deactivated and the MTH800 returns to standard operation. Setting the TXI Mode is described in "Setting Transmit Inhibit (TXI) Mode" on page 102.

Activated Transmit Inhibit is indicated by the solid orange LED and flashing between the two displays: Folder 1 Police Hello Optms Contcs TXI Mode Activated TXI Mode Folder 1 Police Hello Contcs Dynamic Group Number Assignment (DGNA) DGNA provides the ability for a network operator or authorised user to dynamically allocate new, or update existing talkgroups to selected terminals over the air interface. Using supplementary services messages (SSDGNA), the network operator can command your terminal to add talkgroups or to update the existing talkgroups, or to delete talkgroups from the list. This operation is performed by transmitting the data into your MTH800. Your Service Provider can gather some Talkgroups under one Supergroup and transmit it to your MTH800 as a DGNA. In such a case, you will be able to participate in calls to/from all the groups in the Supergroup. DGNA Reception with Notification Message When a DGNA message is received and DGNA notification was configured by your Service Provider, you will get a tone indication and notification message ("Talkgroup list updating"), and then a display of the new assignments. Talkgroup list updating 40 You can use the View, Attach, Back soft keys, MENU , Rotary knob, Emergency button. 1. , and Talkgroups: 10 Added 6 Removed Pressing one of them exits the DGNA display. To view the added/deleted talkgroups details press View.

You may scroll through the list. To return to the previous display press Back. View Back 2. 3. Talkgroups TG1 TG2 TG3 TG4 Attach Back To select the DGNA group, press Attach. Or scroll to another group and press Attach. · Group attachment is not allowed in TXI Mode. · Once you exit the DGNA notification screen, select one of the newly added groups as explained on see page 33. If the DGNA message is received to delete all Talkgroups, your MTH800 will display the following: All Talkgroups Deleted TMO Group Call Back DGNA Reception without Notification Message If DGNA notification was not configured by your Service Provider, you will get a tone indication and notification message only and only if a selected group was changed by the DGNA. 41 DMO Group Call General In DMO, the MTH800 can be used without your Service Provider's infrastructure.

Direct Mode allows communication with other terminals also operating in Direct Mode, which are on the same frequency and talkgroup as your MTH800. In DMO it is only possible to place Group Calls and Emergency Group Calls. You can receive a call: · From the selected talkgroup · From other users within talkback range (if configured by your Service Provider). This is called an InterMNI (Mobile Network identity) call. · From an open group. (An open group is a super-group to which all DMO groups belong.) When you start a call, the members of the selected talkgroup who have their units turned on, and are within the group subscriber identity (as configured by the Service Provider), will receive the transmission. In DMO the MTH800 can communicate with the trunking system (and vice-versa) if the Gateway option is enabled in the MTH800. Dual Microphone Feature See "How to Hold Your MTH800" on page 13. "My Groups" Folder You can organise your favourite groups into one folder called "My Groups".

42 Selecting the My Groups Folder From the Home display, press folder. to quickly access the Adding/Deleting Groups from the My Groups Folder For more information, see "My Groups (TMO/DMO)" on page 95. Selecting a Group See the Group Call section, page 32. Selecting a Folder See the Group Call section, page 32. Making a DMO Group Call without Gateway 1. 2. 3. Enter Direct Mode by pressing Optms and selecting Direct Mode.



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