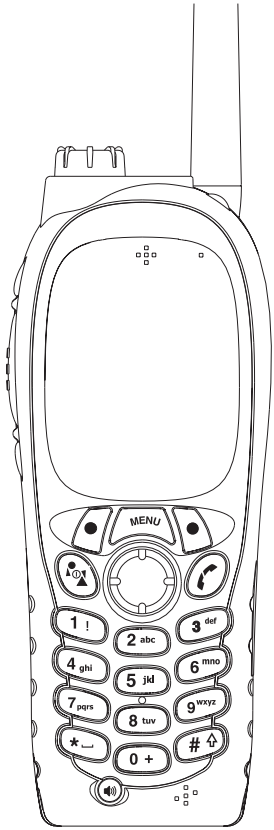
MTH650

TETRA Portable Terminal
Basic User Guide



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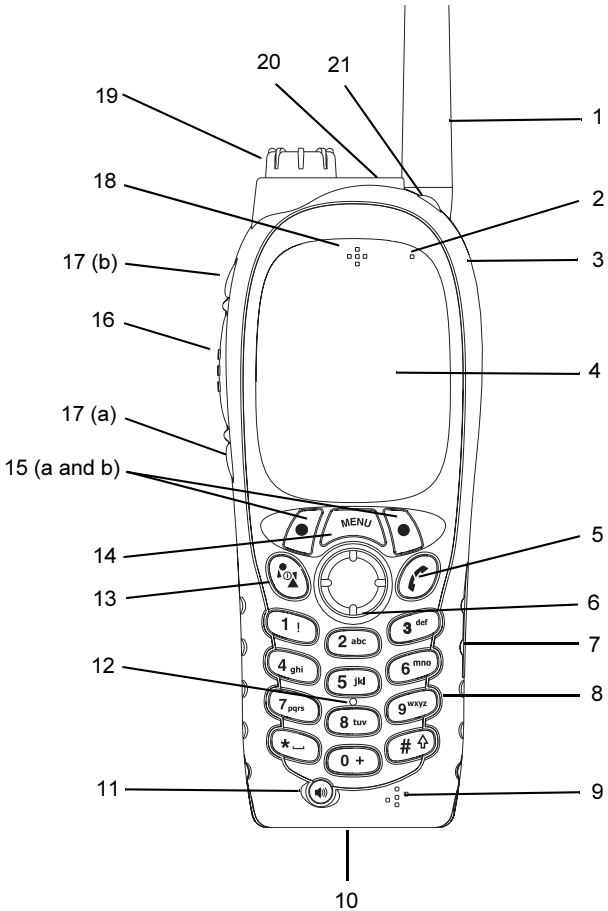
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English

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Safety Information

This user guide covers the basic operation of the MTH650 Handportable Terminal. Please consult your dealer for further, more detailed information which is contained in a full feature user guide 6802968C85_.

CAUTION!

Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet 6866537D38_ enclosed with your MTH650.

ATTENTION!

The MTH650 is restricted to occupational use only to satisfy ICNIRP RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet (Motorola Publication part number 6866537D38_) to ensure compliance with RF energy exposure limits.

Keep this **User Guide** and the **Product Safety and RF Exposure booklet** in a safe place and make it available to other operators in case the MTH650 is passed on to other people.

Copyright Information

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MTH650 Overview

Controls and Indicators

The numbers below refer to the illustration on the inside front cover.

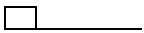
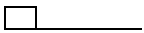
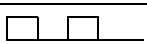
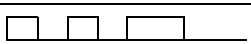
Number	Description
1	Antenna
2	Upper Microphone. Activated during half-duplex calls such as Group.
3	External Antenna Connector. Used with the digital car kit to connect the RF signal to the external antenna. (At the back of the MTH650)
4	Alphanumeric Display. Provides four lines of 14 characters with backlighting.
5	Send/End Key. Used to initiate or answer calls, end calls (not Group mode) or send status and text messages.
6	Four-Way Navigation Key. Press up, down, left or right for list scrolling while moving around the menu hierarchy or for alphanumeric text editing.
7	Audio Accessory Connector. (At the side of the MTH650)
8	Alphanumeric Keypad. Use the keypad to enter alphanumeric characters for dialing, address book entries and text messages.
9	Lower Microphone. Activated during full duplex calls such as ‘Phone’.
10	Accessory Connector. Provides connection for accessories. (At the base of the MTH650)
11	Loud/Discreet Mode Key Selects earpiece audio (Discreet mode) or loudspeaker (Loud mode).
12	Loudspeaker (under keypad).

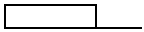
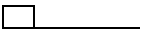
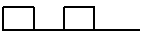
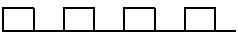
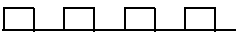
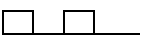
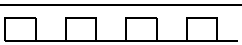
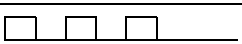
Number	Description
13	Mode/On-Off Key. Used to turn the MTH650 On/Off (press and hold) and to change modes.
14	Menu Key. Used to enter the main menu and scroll the menu options.
15	Press to select the option that appears directly above the left or right key on the fifth line of the display.
16	Push-To-Talk Button (PTT). Press and hold this side button to talk, release it to listen.
17	Programmable Side Buttons 1 and 2. (See also No. 19)
18	Earpiece
19	Programmable Rotary Knob. Programmed to “volume” - side buttons (No. 17) operate as programmed. Programmed to “List” (list scroll) - side buttons (No. 17) operate as volume control. Programmed to “Dual” - Press the knob to toggle between “volume” and “list”. Side buttons (No. 17) operate as programmed.
20	Emergency Key (on top of the MTH650). Used to send Emergency Alarms (press and hold). When the MTH650 is off, press and hold to power on in Emergency mode.
21	LED (Indicator)

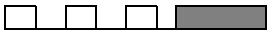
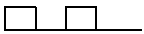
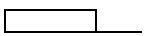
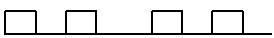
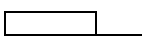
Before using your MTH650 for the first time, remove the plastic lens protector from the display, and charge the battery overnight to ensure battery is initialised to its full capacity.

Audio Signal Tones

= High Tone; = Low Tone;

Description	Type	Repeated
Idle		
• Back to Home mode • Back to rotary volume mode when rotary scroll timer expires • Back to coverage • Back to full service		Once
Clear-to-send.		Once
• Bad key press		Once
• Good key press • MTH650 self-test fails at power up • From out-of-service to in-service		Once
In Call		
Call clear warning		Once
Call waiting tone while Phone or Private Call are pending		Every 6 seconds, until a call is terminated.
Data Connected or Data Disconnected.		Once
Talk Permit sounds upon pressing the PTT.	 	Once (Normal Tone) Once (Short Tone)
Talk Permit without gateway sounds upon pressing PTT. The tone indicates the gateway is no longer available.	 	Twice Once

Description	Type	Repeated
• Talk Prohibit • System busy • Time-out timer expire • Called terminal not available or busy.		Until you release the PTT
• Call disconnected or failed due to network • Wrong number dialled.		Once
DMO Entering/Exiting		Once
Local site trunking — Entering/Exiting		Once
Phone ring back (sending)		Every three seconds, until the called user answers or call is rejected.
Phone busy		Every 0.5 seconds
Status message sent to the dispatcher or failed.		Twice
Incoming Calls		
Status message acknowledged by the dispatcher.		Four times
Your MTH650 received a Group Call without gateway. (setup only)		Once
High Priority Group Call received		Once
Emergency Alarm sent or received		Twice
Emergency Alarm failed		Four times
Emergency Call received		Once
Phone ring (reception) Full-duplex Private Call		Until you answer or the call is rejected.

Description	Type	Repeated
Private Call received		Until the call is answered
Private Call ringing to the caller		Until the call is answered
Half-duplex Private PPC ring.		Every 4 seconds until the call is answered or rejected.
Full-duplex Private PPC ring.		Every 4 seconds until the call is answered or rejected.
Limited Service		Once upon entering limited service
New Mail Received		Once
New Group Call		Once
Battery/General		
Volume setting (earpiece, keypad, speaker)		Continuous
Volume setting (Ringer)		While setting the volume
Transmit Inhibit (TXI)		Once
Rotary knob tone		Once, when toggling from List to Volume.
Low battery alert		Repeated
DTMF (0-9, #, *)	DTMF 	Continuous, until the user releases the key

Key, Knob, and Button Overview

Mode/On-Off Key

The MTH650 has four call modes when operating in Trunked Mode (TMO):

- Group mode — to send and receive Group Calls.
- Private mode — to send and receive Private Calls.
- Phone mode — to send and receive Phone Calls.
- PABX mode — to send and receive local (office) extension calls.

Group mode is the default mode to which your MTH650 returns when there is no activity for a few seconds.

To cycle through the Group, Private, Phone, and optional PABX modes, press successively.

Soft Keys

Press or to select the option that appears in the screen directly above the left or right soft key.

Menu Key

Press to enter:

- **The menu.** The MTH650 menus allow you to control your MTH650 settings.
- **Context Sensitive Menu** (when icon is on) to view a list of options for the current menu.

Rotary Knob

The rotary knob is programmable and operates in one of three modes:

1. Volume Mode - the knob is used as a volume control; turn clockwise to increase the audio volume level.
2. List Mode (List Scroll) - the knob is used to scroll a list; turn knob to scroll through lists and menu options.
3. Dual Mode - the knob is used as both a Volume control and to scroll through Lists. Press the knob to toggle between Volume and List.

Press and hold the knob to lock it, press and hold it again to unlock. Powering Off also unlocks a locked knob.

Emergency Button

Press and hold this key from any mode to enter the Emergency mode.

When the MTH650 is powered down, press and hold this button to power On in Emergency mode.

The required time you need to press the Emergency button is set as default to 0.5 seconds. This time may be set, however, by your service provider.

Function Keys

Side Keys

Use these keys for audio volume level adjustment when the rotary knob is programmed to List. Otherwise, these keys support the one-touch feature that allows you to select or activate commonly used features by pressing and holding a single key.

Numeric Keys

The MTH650 supports the one-touch feature that allows you to select or activate commonly used features by pressing and holding a numeric key.

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.

For information on the function assigned to each Side or Numeric key please refer to your service provider.

The LED Status Indicator

The LED indicator shows the states of your MTH650.

Indicator	Status
Solid green	In use
Flashing green	In service
Solid red	Out of service
Flashing red	Connecting to a network/entering DMO
Solid orange	Transmit Inhibit (TXI) in service
Flashing orange	Incoming call
No indication	Switched off

To Enter the Menu Options

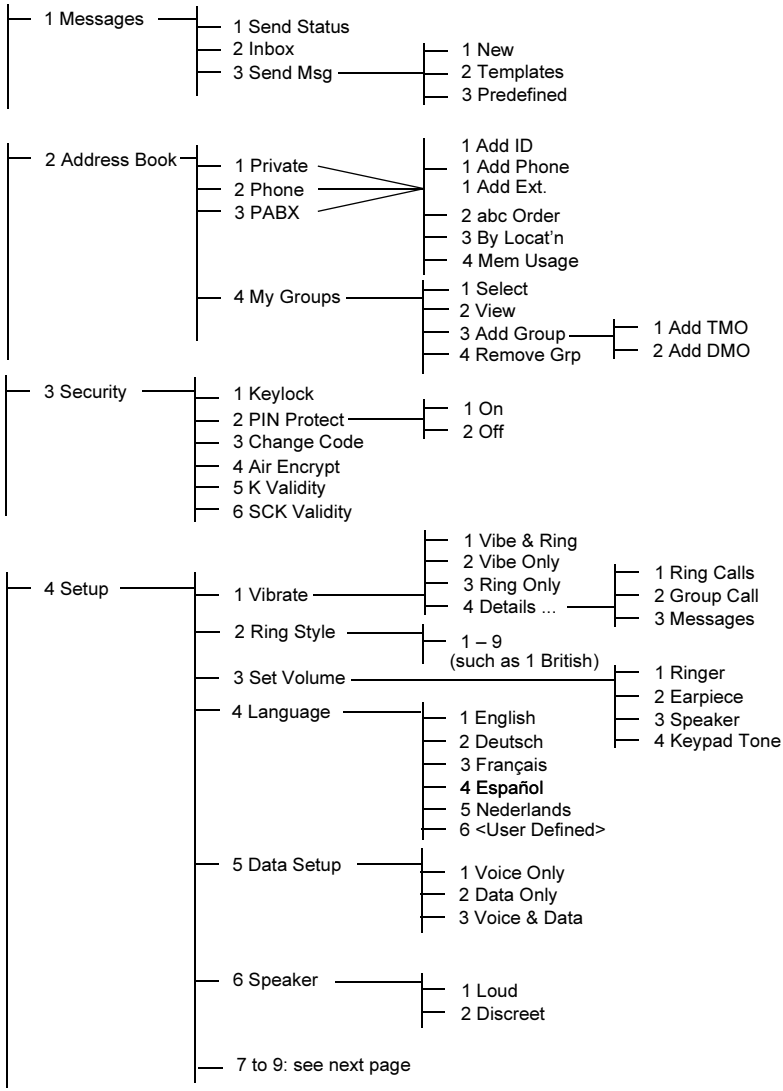
1. From any mode, press MENU.
2. Scroll to the required option, press **Ok** or to select.
3. Alternatively, key the numbers of the required option, typically **2 2 4** to reach **4 Mem Usage**.

To exit the Menu Options

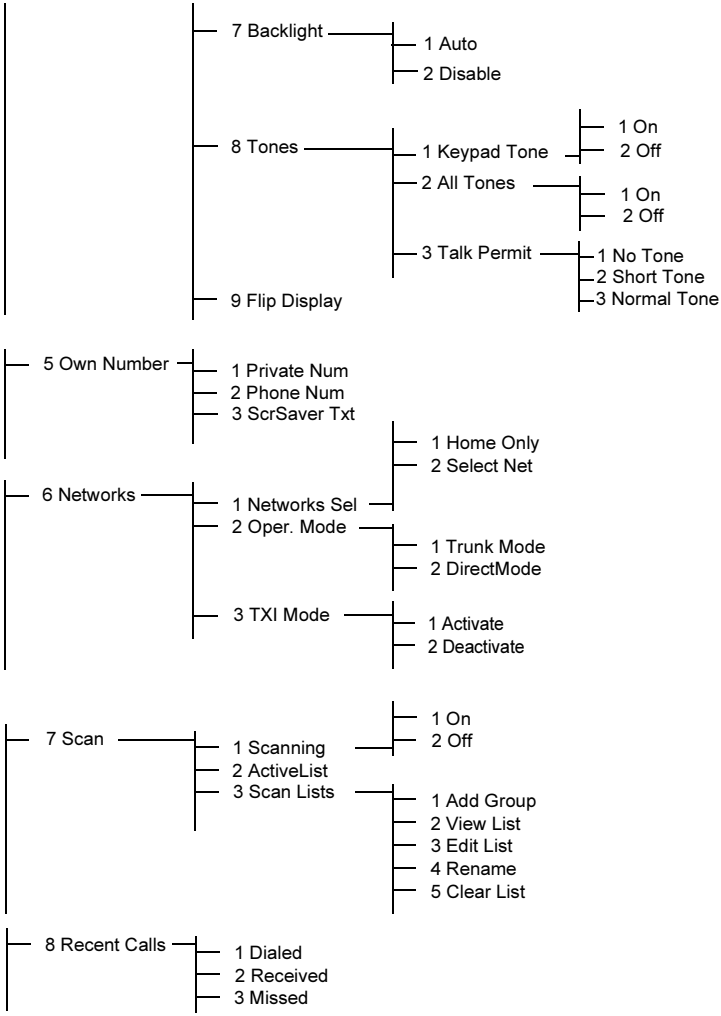
Press **Back** or .

Your MTH650 may exit if no key presses are detected for a time-out period.

List of Menu Options



List of Menu Options (Cont'd)



Some menu numbers may be different to that listed a s some menu options can be enabled/disabled by your service provider.

The Display

Display Icons

When you turn on your MTH650, icons appear along the top of the display to indicate the following conditions:

Display Icon	Description
Trunked Mode Operation	
	Signal Strength (TMO) Allows you to check signal strength. More bars indicate a stronger signal.
	Priority Scan Indicates priority scanning is activated in the MTH650.
	Data Connected Displayed when the MTH650 is successfully connected to an external device and ready for data transfer.
	Data Transmit/Receive Displayed when the MTH650 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.
	Direct Mode Displayed when the MTH650 is in Direct mode.
	DMO Gateway Indicates that gateway is selected. The icon has three states: Solid — while the MTH650 is synchronised with the gateway. Flashing — while the MTH650 is not synchronised or during attachment. No icon — during a terminal to terminal call, i.e. not using a gateway.

Display Icon	Description
General Icons	
	Context Sensitive Menu Appears above MENU if a context sensitive menu is active.
	Ring Tone Muted Indicates that the MTH650 ringer is off.
	Unread Message Indicates that you have unread messages in your Inbox.
	New Message Has Arrived Your Inbox could not open due to an on-going activity. The icon remains to remind you of new messages in your Inbox.
	Low Audio Indicates that the MTH650 is in Low Audio mode. During Private Calls, the audio will sound through the earpiece.
	Battery Strength Shows the charge in your battery. Three bars is full charge.
	Emergency Appears while the MTH650 is in Emergency mode.
	List Scrolling Displayed to indicate that the current rotary mode is list scrolling, as long as this mode is selected.

Displaying Long Numbers or Messages

Three dots after a number or message indicate that it continues on the next page. Press **More** to read the next “numerical” page and **More** again to return to the previous page. Press ◯ to read the next “text” page and ◯ to return to the previous page.

Getting Started

Charging the Battery

Motorola approved chargers provide optimum performance. Other chargers may not fully charge your Motorola battery or may reduce the life of the battery.

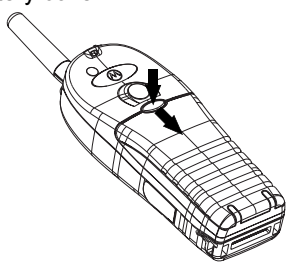
The MTH650 can be either **On** or **Off** during charging.

1. Insert the connector on the charger into the socket at the base of the MTH650. 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 MTH650 displays the **Charger Connected** message only if the MTH650 is **On** when connecting the charger. The Battery icon shows the charging status (see below).

Battery Capacity *Battery Charge Progress*

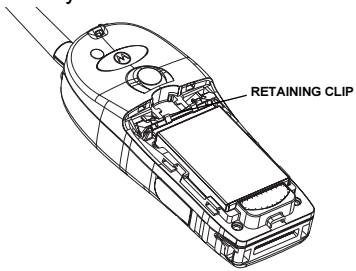
Installing the Battery

1. Remove the battery cover as shown below.
2. Insert the battery top into the compartment as illustrated on the battery.
3. Carefully press the battery silver bottom downward until it clicks into place.
4. Replace battery cover.



Removing the Battery

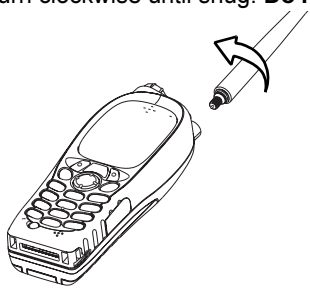
1. To remove the battery cover, push down the cover button. Slide the cover away.
2. Push retaining clip up and then lift the top of the battery out.
3. Replace the battery cover.



Attaching the Antenna

Turn the MTH650 off before installing or removing the antenna.

Insert the bottom of the antenna into the screw-in base on the top of the MTH650. Turn clockwise until snug. **Do not force.**



Powering the MTH650 On/Off (Mode Key)

To power **On**, Press and hold . Your MTH650 performs a self-check and registration routine. After successful registration, the MTH650 is in service.

To power **Off,** press and hold . You will hear an audible beep and the **Powering Off** message is displayed.

Powering On the MTH650 (Emergency Button)

Press and hold the Emergency button to power on. The MTH650 will power On in Emergency mode.

Powering On with Transmit Inhibit Active

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 restricted area before deactivating Transmit Inhibit.

Press the **Yes** soft key to deactivate the TXI Mode. If the MTH650 was previously used in Trunked Mode (TMO), it will register to the network. If the MTH650 was previously used in Direct Mode it will remain in Direct Mode.

Press **No** in Trunked Mode and the MTH650 powers down; press **No** in DMO mode and you remain in DMO with TXI selected.

Unlocking the MTH650

Your MTH650 may be locked at power up.

To unlock the MTH650 after powering on, enter the code at the prompt. The MTH650 enters the default home mode.

Selecting TMO or DMO Operation

Entering TMO or DMO

Enter TMO or DMO in one of the following ways:

- Press MENU **6 2 1** (TMO) if the MTH650 is in DMO.
- Press MENU **6 2 2** (DMO) if the MTH650 is in TMO.
- Press the TMO/DMO one-touch button (configured by your Service Provider).

Calls (Trunked Mode)

TMO Group Calls

A Group Call is a communication between you and others in a talkgroup. A Talkgroup is a pre-defined set of subscribers enabled to participate in and/or invoke a Group Call.

Talkgroups are divided into **ranges.** Each range may contain several talkgroups.

Making a TMO Group Call

1. Press ⊛ until “Group Mode” appears on your display.
2. If this is the required talkgroup and range, press and hold the **PTT**. Wait for the talk permit tone and then speak into the microphone.

   Release the **PTT** button to listen.
3. If you wish to call a talkgroup other than the one shown, scroll through the talkgroups.
4. To select a range other than the one shown, press **Optns,** followed by **Range.** Scroll through the ranges. Press **Ok** to select the range, press **Back** to cancel range scrolling.

When you start a call, all members of the selected talkgroup who have their units turned on, will receive the transmission.

The “No Group” message is displayed when you are out of the normal coverage area of your selected talkgroup. You must then select a new talkgroup that is valid for your working location.

Receiving a TMO Group Call

Unless it is engaged in an active call, your MTH650 will automatically switch to Group Mode and receive the transmission. To answer the call, press and hold **PTT**.

Your MTH650 shows the Group name and the caller's private number or alias if previously stored in your address book.

For incoming call alert, see settings in the Vibrate menu option and the Tones menu option.

At the end of a call received through the earpiece, a low pitch tone is emitted alerting you that the next incoming Group call will be received through the speaker. At this alert, you are advised to hold the MTH650 at a comfortable distance away from the speaker.

When receiving a Group call, you will hear a "New Group Call" tone.

Receiving a TMO Broadcast Call

The Broadcast Call (also called Site Wide Call) is a high-priority group call from the console operator (or dispatcher) to all users. The MTH650s are configured to monitor a Broadcast Call, but users cannot talk back.

The Broadcast Call pre-empts an on-going Group Call that has the same (or lower) call priority.

Calls (Direct Mode Operation)

DMO Group Calls

In DMO, the MTH650 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 MTH650.

In DMO it is only possible to place group calls and emergency group calls.

You can receive a call from the selected talkgroup and from an open group. (An open group is a super-group of all DMO groups.)

When you start a call, the members of the selected talkgroup who have their units turned on will receive the transmission.

In DMO the MTH650 can communicate with the trunking system

(and vice-versa) if the Gateway option is enabled in the MTH650.

Making a DMO Group Call

1. Enter **Direct Mode** by selecting the Direct Mode option via the menu.
2. If this is the required talkgroup and range, press and hold the **PTT** button. Wait for the talk permit tone and then speak into the microphone.

   Release the **PTT** button to listen.

Receiving a DMO Group Call

You can receive a DMO Group Call only when your MTH650 is in DMO.

Your MTH650 will display the caller's private number or alias, and the talkgroup name.

Exiting DMO

To exit DMO, select the Operating Mode option your MTH650 should be operating on.

Calls (Private and Phone Calls)

Private Call

A Private Call, also called Point-to-Point or individual call, is a call between two individuals. No other terminal can hear the conversation.

Making a Private Call

1. To enter the Private Mode, press until Private Mode appears on the display.
2. Enter the number of the person you wish to call.
3. Press and release the **PTT** button. You will hear a ringing tone. Wait for the called person to answer your call.
4. Press and hold **PTT**. Wait for the talk permit tone (if configured) before talking, and release the **PTT** when listening.
5. To end the call, press . If the called person ends the call, the **Call Ended** message is displayed.
6. Press **Back** to return to the Private Mode display.

While Transmit Inhibit is activated, an incoming Private Call is indicated, but it is not possible to answer the call.

Receiving a Private Call

If the Service Provider configured the MTH650 to Automatic Mode Switch:

1. The MTH650 automatically switches to Private Mode. The display shows the caller's identity.
2. To answer the incoming call, press **PTT**.
3. To end the call, press . The display returns automatically to the mode it was in before the incoming call arrived.

If the Service Provider configured the MTH650 to Manual Mode Switch:

1. If the MTH650 is **NOT** in Private Mode, a **Prvt Call** message and the caller ID is displayed momentarily. The display returns to the mode it was in before the incoming call arrived.

2. To answer the call, press , and then the **PTT** key.

3. To end the call, press .

If the called person ends the call, the **Call Ended** message is displayed.

For call alert, see settings in the Vibrate menu option and the Tones menu option.

Phone and PABX Calls

The **Phone Mode** allows you to call a landline telephone number or a cellular mobile phone number. In this publication we use “phone number” when referring to these numbers.

The **Private Automatic Branch Exchange (PABX) Mode** allows you to call local (office) extension numbers. This mode needs to be activated by your Service Provider.

Both modes have the same dialling features.

While Transmit Inhibit is activated, an incoming Phone or PABX Call is indicated, but it is not possible to answer the call.

Making a Phone or PABX Call

1. Press until **Phone Mode** appears on your display.

   If a PABX call is required, press again. **PABX Mode** appears on your display.

2. Proceed as for making and receiving Private phone calls.

Emergency Mode

You can send and receive **Emergency Group** Calls in **Trunked Mode** (TMO) or in **Direct Mode** (DMO). If your terminal is configured to operate through a gateway, Emergency calls can be placed through the gateway.

You can initiate an Emergency Group Call to and receive it from the selected talkgroup (TMO and DMO).

Your Service Provider will configure the Emergency Alarm and Hot Microphone features.

Emergency calls will be allocated emergency priority in the system.

Entering or Exiting Emergency Mode

To enter Emergency mode from any mode, press ***and hold*** the emergency button at the top of the MTH650.

The required time you need to press the Emergency button is set to default to 0.5 seconds. The time can be configured by your Service Provider.

For call alerts, see settings in the Vibrate menu option and the Tones menu option.

To exit Emergency mode, press and hold **Exit**. You will switch to normal Group mode.

Sending an Emergency Alarm (TMO Only)

Your MTH650 will automatically send an Emergency Alarm when in Emergency mode. This is sent:

- automatically, upon entering Emergency mode
- if you press the Emergency key again while the MTH650 is in Emergency mode.

After sending the alarm, the screen will show one of the following delivery reports:

- Alarm Sent
- Alarm Failed

In both cases the screen returns within a few seconds to the main screen of the Emergency mode.

The Emergency Alarm is a special status message sent to the dispatcher monitoring the selected talkgroup. This can be used in dispatch systems to highlight emergency calls.

Some systems do not support the Emergency Alarm feature when the user is in a “Local Area Service” area.

Warning

Pressing the Emergency button, even if Transmit Inhibit is activated, causes the MTH650 to radiate immediately. The MTH650 must **NOT** be within the RF sensitive area when entering Emergency mode.

Hot Microphone Feature

If the Hot Microphone feature was programmed into your MTH650 by your Service Provider, you can make an Emergency Group Call and talk to the dispatcher (and members of your talkgroup) without the need to press and hold the **PTT**.

The microphone will stay open for a time period (programmed by your Service Provider). The microphone will stay open until:

- the Hot microphone time period expires
- you press **PTT** during the Hot Microphone period
- you press the **End** key

At the end of the Hot Microphone the **Emgcy Mic Ended** message will be displayed and the MTH650 reverts back to the Emergency Mode. The Hot Microphone feature is disabled and PTT operation returns to normal.

If required you can resume Hot Microphone by pressing the emergency key again.

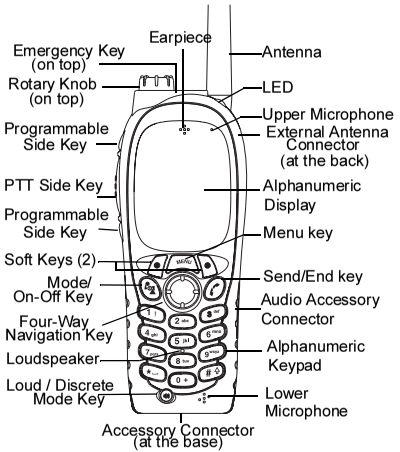
Making an Emergency Group Call

To initiate or answer a call while in Emergency Mode:

1. Press and hold **PTT.**
2. Wait for the talk permit tone (if configured) and talk.
3. Release **PTT** to listen.

MOTOROLA **MTH650**

Quick Reference Guide



Turning the MTH650 On / Off

To power the MTH650 on / off, press and hold .

Using the MTH650 Menu System

- Entering the menu: Press MENU.
- Scrolling through the menu:
  Press MENU, , or .
- Selecting a menu option:
  Press **Ok** / .
- Exiting the menu/option:
  Press **Back** / .

Selecting Trunked / Direct Mode Operation

- Your terminal may be configured with a One-Touch button to switch between TMO / DMO. Contact your Service Provider for more information.
- To select TMO / DMO via the Menu system, press MENU > **Networks** > **Oper.Mode.** Select **1 Trunk Mode** or **2 Direct Mode** as required.

Making a TMO Group Call

Enter TMO. Press until the display shows Group Mode. Navigate to the desired talkgroup/range. Press **Ok** softkey. Press and hold **PTT**. Wait for the talk permit tone (if configured) and talk. Release **PTT** to listen.

Making a DMO Group Call

Enter DMO. Navigate to the desired talkgroup/range. Press **Ok** softkey. Press and hold **PTT**. Wait for the talk permit tone (if configured) and talk. Release **PTT** to listen.

Making a TMO Emergency Group Call

Enter TMO. Press and hold the Emergency button. Emergency alarm is sent automatically. Press and hold **PTT**. Wait for the talk permit tone (if configured) and talk. Release **PTT** to listen. If using "Hot Mic" feature, wait for the **Emgncy Mic On** message to appear on the display and talk without pressing **PTT**.

To exit Emergency Mode press and hold **Exit** softkey.

Making a DMO Emergency Group Call

Enter DMO. Press and hold the Emergency button. Press and hold **PTT**. Wait for the talk permit tone (if configured) and talk. Release **PTT** to listen. To exit Emergency Mode press and hold **Exit** softkey.

English

Making a Phone/PABX Call

Press ⊙ until the display shows Phone/PABX Mode. Dial number or select from address book. Press ✆ to speak and press ✆ to terminate call.

Making a Private Call

Press ⊙ until the display shows Private Mode. Dial number or select from address book. Press and release **PTT**. Ringing sounds. Called party answers. Wait for the called party to finish speaking. Press and hold **PTT**. Wait for the talk permit tone (if configured) and talk. Release **PTT** to listen. Press ✆ to terminate call.

Making a Private Full-Duplex Call

Press ⊙ until the display shows Private Mode. Dial number or select from address book. Press and release ✆. Ringing sounds. Called party answers. Press ✆ to terminate call.

Answering a Call
— Manual Mode Switch

Your MTH650 alerts you of an incoming call, displays the mode of the incoming call for a few seconds, and returns to the mode prior to receiving the call. To answer the call, first press ⊙ for entering the call's mode, then press ✆ for Phone/PABX/Full-duplex Private calls, or press **PTT** for all other calls.

Answering a Cal
— Automatic Mode Switch

Your MTH650 switches to the mode of the incoming call and alerts you of the incoming call. To answer the call, press ✆ for Phone/PABX/Full-duplex Private calls or press **PTT** for all other calls.

Sending a Status Message

Select the desired talkgroup, then press MENU > **Messages** > **Send Status**. Select status and press ✆ or **PTT**. You can also press the **Status** softkey from phone, PABX, group, and private mode start screens.

Sending a New Message

Press MENU > **Messages** > **Send Msg** > **New**. Write your message. Press **Optns** softkey and select **Send**. Select your mail recipient or enter address. Press ✆ or **PTT** to send the new message.

Sending a User-Defined Message

Press MENU > **Messages** > **Send Msg** > **Templates**. Scroll and choose your required template. Press **Optns** softkey and select **Send**. Select your mail recipient or enter address. Press ✆ or **PTT** to send the message.

Sending a Predefined Message

Press MENU > **Messages** > **SendMsg** > **Predefined**. Scroll and choose your required template. Press **Edit** softkey. Type required information and press ✆ or **PTT** to send the message.

Handling New Incoming Text Messages

MTH650 configured to Manual Mode Switch: your MTH650 will alert you of an incoming message. To enter the inbox, press MENU > **Messages** > **Inbox**.

MTH650 configured to Automatic Mode Switch: your MTH650 will alert you of an incoming message and enter the inbox automatically, if there is no on-going activity in the terminal.

Scroll to the message and select **Read** softkey. Then select **Optns.** You have the options to erase/store/forward/reply.

Handling Old Messages

Press MENU > **Messages** > **Inbox**. Scroll to the message and select **Optns** softkey. You have the options to Read/ Erase/Erase All.