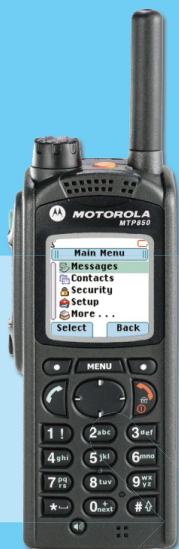
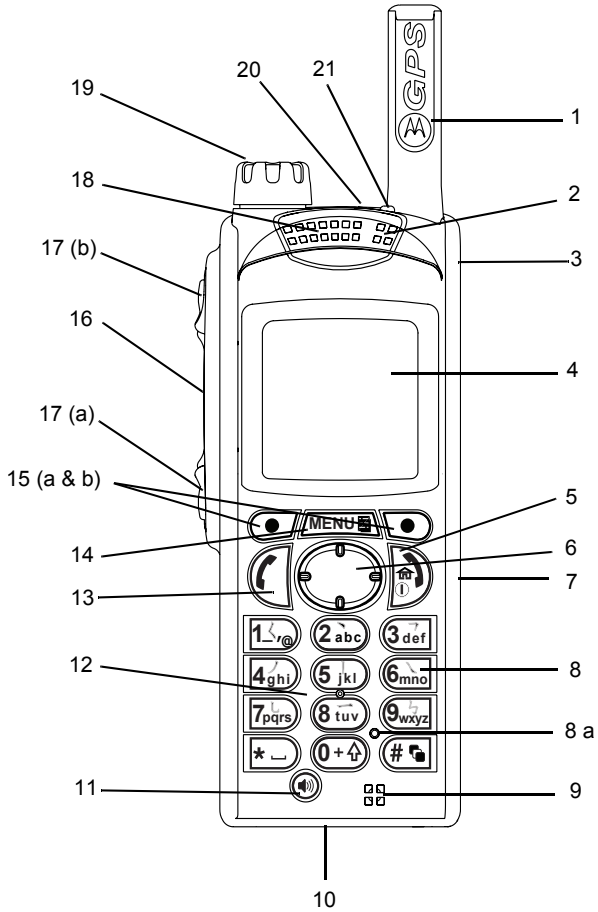




# MTP850 TETRA Handportable Terminal

Basic User Guide  
基本用户手册





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# Safety Information



**CAUTION**

*Before using these products, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet 6804113J24.*

The MTP850 is restricted to occupational use only to satisfy ICNIRP RF energy exposure requirements. Before using the products, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet (Motorola Publication part number 6804113J24) 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 accessories are passed on to other people.

## Disposal Information



The **European Union Waste of Electrical and Electronic Equipment** directive requires that products sold into EU countries must have the crossed out trashbin label on the product (or the package in some cases). As defined by the WEEE directive, this cross-out trashbin label means that customers and end-users in EU countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end-users in EU countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

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## Icon Conventions

The document set is designed to give the reader more visual cues. The following graphic icons are used throughout the documentation set. These icons and their associated meanings are described below.



**WARNING**

*The signal word **Warning** with the associated safety icon implies information that, if disregarded, could result in death or serious injury, or serious product damage.*



**CAUTION**

*The signal word **Caution** with the associated safety icon implies information that, if disregarded, may result in minor or moderate injury, or serious product damage.*

**CAUTION**

*The signal word **Caution** may be used without the safety icon to state potential damage or injury that is not related to the product.*

**NOTE**

*Notes contain information more important than the surrounding text, such as exceptions or preconditions. They also refer the reader elsewhere for additional information, remind the reader how to complete an action (when it's not part of the current procedure, for instance), or tell the reader where something is located on the screen. There is no warning level associated with a Note.*

# MTP850 Overview

## Controls and Indicators

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

Number	Description
1	<b>Antenna</b>
2	<b>Top Microphone</b> Activated during Simplex, high-audio calls such as Group Calls.
3	<b>External Antenna Connector</b> Used with the digital car kit to connect the RF signal to the external antenna. (At the back of the MTP850)
4	<b>Colour Display</b> Provides alphanumeric text and images within 65,536 colors and 130 x 130 pixels with backlight, scalable fonts, and contrast.
5	<b>On-Off/End/Home Key</b> <ul style="list-style-type: none"><li>• Press and hold to turn the MTP850 On/Off.</li><li>• Press to end calls.</li><li>• Press to return to the Home display (idle screen).</li></ul>
6	<b>Four Way Navigation Key</b> Press up, down, left or right for list scrolling, while moving around the menu hierarchy, or for alphanumeric text editing.
7	<b>Audio Accessory Connector</b> (At the side of the MTP850)
8	<b>Alphanumeric Keypad</b> Use the keypad to enter alphanumeric characters for dialing, contact entries and text messages.
8 a	<b>Sensor for keypad backlight On/Off</b>
9	<b>Bottom Microphone</b> Activated during Simplex and Duplex, low-audio calls such as Phone Calls.
10	<b>Accessory Connector</b> Provides connection for accessories. (At the base of the MTP850)



Number	Description
11	<b>Speaker Control Key</b> Selects earpiece (low audio), PHF (low audio) or speaker (high audio).
12	<b>Speaker (under keypad)</b>
13	<b>Send Key</b> Used to initiate or answer Duplex calls (such as Phone Calls), or send status and text messages.
14	<b>Menu Key</b> Used to enter the main menu and the context sensitive menu.
15	<b>Soft Key(s)</b> Press to select the option that appears in the display directly above the left or right soft key.
16	<b>Push-To-Talk Button (PTT)</b> Press and hold this side button to talk in Simplex calls, release it to listen. Press to send status and text messages.
17	<b>Programmable Side Keys 1 and 2</b> Default programming: upper Side key activates/deactivates Backlight; lower Side key activates Screen Saver. (See also No. 19)
18	<b>Earpiece</b>
19	<b>Programmable Rotary Knob</b> Default programming: "Dual" – Press the knob to toggle between "volume" and "list". Side keys (No. 17) operate as programmed.
20	<b>Emergency Button (on top of the MTP850)</b> Press <b>and hold</b> to enter Emergency Mode, and send Emergency Alarms (as programmed). When the MTP850 is Off, press and hold to power on in Emergency Mode or in normal mode (as programmed).
21	<b>LED (Indicator)</b>

**NOTE** *Before using your MTP850 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.*









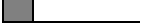


**NOTE** *Take care to clean the bottom connector frequently and particularly prior to the programming procedure e.g. with a soft brush (do not use fluids).*















**NOTE**



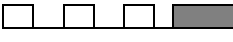

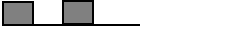
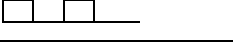
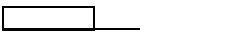
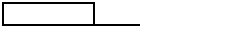

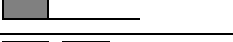

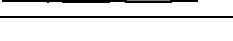
*It is recommended to turn off the terminal before connecting any of the accessories.*

## Audio Signal Tones

□ = High Tone; ■ = Low Tone;

Description	Type	Repeated
<b>Idle</b>		
<ul style="list-style-type: none"> <li>• Back to Home display</li> <li>• Back to rotary volume use when rotary scroll timer expires</li> <li>• Back to coverage</li> <li>• Back to full service</li> </ul>		Once
Clear to send		Once
Bad key press		Once
<ul style="list-style-type: none"> <li>• Good key press</li> <li>• MTP850 self-test fails at power up</li> <li>• From out-of-service to in-service</li> </ul>		Once
<b>In Call</b>		
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
<ul style="list-style-type: none"> <li>Talk prohibit</li> <li>System busy</li> <li>Time-out timer expire</li> <li>Called MTP850 not available or busy</li> </ul>		Until you release the PTT.
Call disconnected or failed due to network		Once
Wrong number dialed		No tone
DMO (Direct Mode) Entering		Once
DMO 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
<b>Incoming Calls</b>		
Status message acknowledged by the dispatcher		Four times
Your MTP850 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, Duplex Private Call (reception)	According to the Ring Style sub-menu setting.	Until you answer or the call is rejected

Description	Type	Repeated
Private Call received	According to the Ring Style sub-menu setting.	Until you answer or the call is rejected
Private Call ringing to the caller		Until the call is answered
Simplex Private Pre-emptive Priority Call (PPC) ring		Every 4 seconds, until the call is answered or rejected.
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
<b>General</b>		
Volume setting (earpiece, keypad, speaker)		Continuous
Volume setting (ringer)		While setting the volume.
Transmit Inhibit (TXI)		Once
Double PTT - Single Tone		Once
Double PTT - Double Tone		Once
Double PTT - Triple		Once

## Periodic Alert

Periodic alert indicates the missed calls and the unread messages. For each indication the unread message tone is played with the orange LED color.



This feature can be disabled/enabled by the user. Press **MENU** and select **> Setup > Tones > Periodic Alert** also to set the period of time between the indications.

# Key, Knob, and Button Overview


## On-Off/End/Home Key


- Press and hold to turn the MTP850 On/Off.
- Press to end calls.
- Press to return to the Home display.

## Soft Keys

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

## Menu Key

Menu key has two functions. Press  to enter:

- **The menu** (when not in the menu). The MTP850 menus allow you to control your MTP850 settings.
- **Context sensitive menu** (when  icon is on and while not on Idle screen) to view a list of items for the current menu.

## 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 control (default programming).
2. **List control** – the knob is used to scroll lists (e.g. Talk group 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.

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 Mode.

When the MTP850 is powered down, press and hold this button to power On in Emergency Mode or in standard mode (as programmed).

## Function Keys

### NOTE

For information on the function assigned to each Side, Numeric, \* or # keys, please refer to your Service Provider.

### NOTE

The required time you need to press the Side, Numeric, \* or # 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	Side Key Programming
Dual control	Programmed to a one-touch function
List control	○: Volume Up ●: Volume Down
Volume control	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.


## Numeric, \* and # Keys

The MTP850 supports the one-touch feature that allows you to select or activate commonly used features by pressing and holding an assigned key.

## One Touch Private Call

The MTP850 supports the one-touch private call if it is set by the Service Provider. User can dial the last group call originator number via pressing the assigned one touch private call button.

## Speaker Control Key

Press  to activate the earpiece (low audio), PHF (low audio) or speaker (high audio), depending on the menu settings.


Type of Call	Menu Setting	Key Use
Simplex call (Group*/Private)	Menu > Setup > Audio > Audio Toggle > Spkr Cntrl	Speaker On/Off for Group and Private Calls
	Menu > Setup > Audio > Audio Toggle > Always Loud	Speaker On/Off for Private Call
Duplex call (Private/Phone/ PABX)	-----	Controls speaker/earpiece of the on-going call

\* In an Emergency Group Call, the voice sounds from the speaker regardless of the speaker setting.

## Volume Adjustment Mode


The Service Provider can enable Volume Adjustment Mode feature. All the settings regarding **Individual** mode are adjustable and retained even if the user switches back to **Common** mode.

In **Common** mode the user adjusts all the **Volumes** at the same time.

To change the volume setting or settings, press  > **Setup** > **Set Volume**.


## Audio Profile

An audio profile is a profile that adjusts the audio parameters of the terminal to fit its current operating environment.

To select an Audio Profile, press  and select **Setup > Audio > Audio Profile**. Scroll and choose your required template.

## Howling Suppression

Howling Suppression is a mode of operation that eliminates howling effect.



To enable or disable Howling Suppression, press  and select **Setup > Audio > Howling Supr**. Scroll and choose respectively Enabled or Disabled.

## The LED Status Indicator

The LED indicator shows the states of your MTP850.

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 / Channel busy in DMO
First solid then flashing orange	Incoming call
No indication	Switched off

### To Enter the Menu Items

1. Press .
2. Scroll to the required item, press **Select** or  to select.

### To Return to the Previous Level

Press **Back** or .

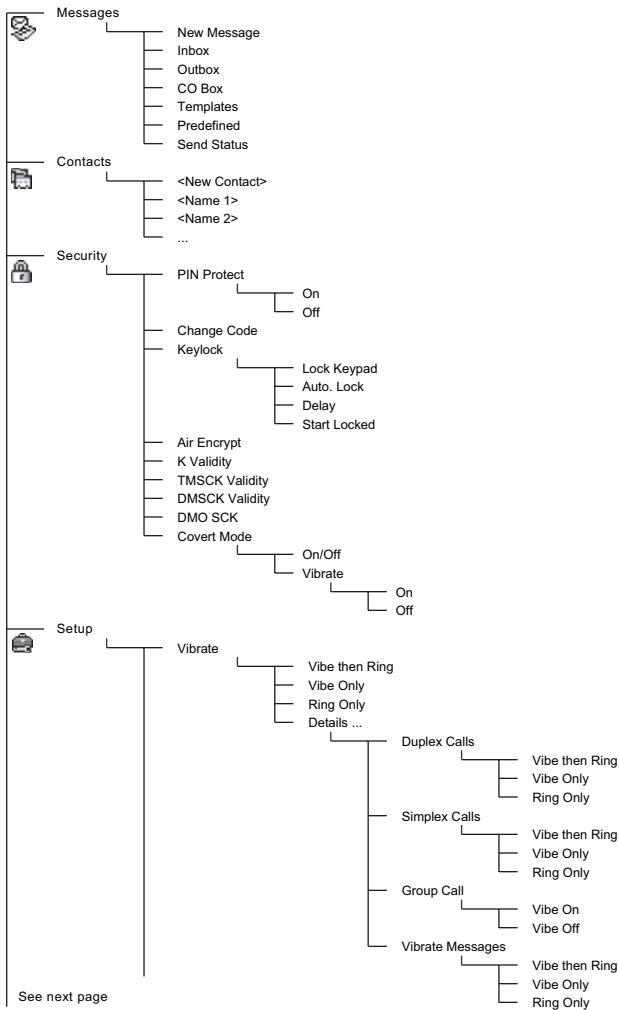
### To Exit the Menu Items

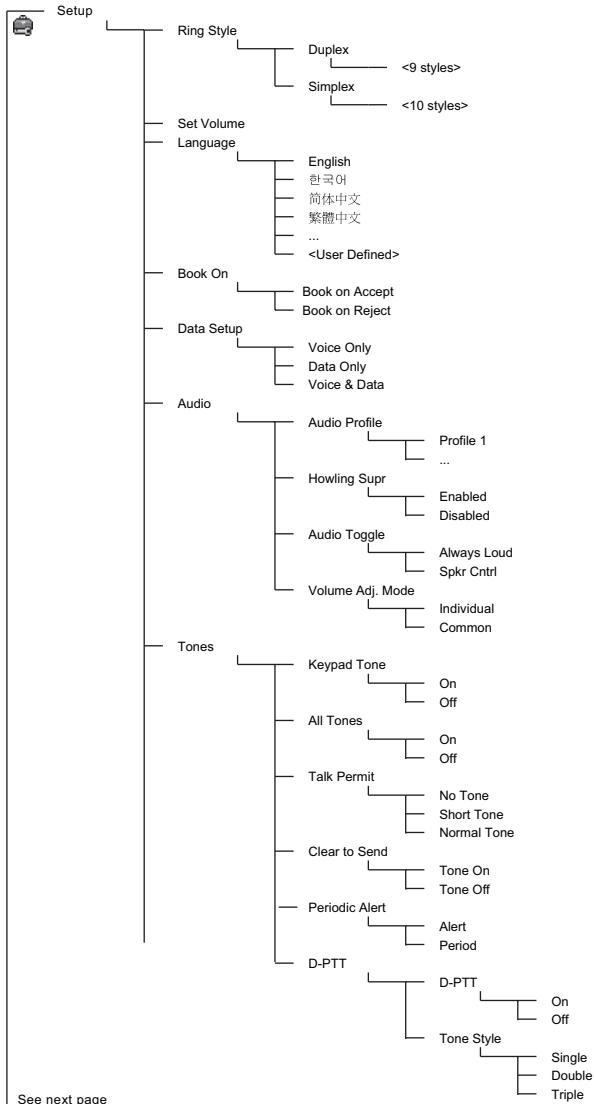
Press .

**NOTE** *Your MTP850 may exit if no key press is detected for a time-out period.*

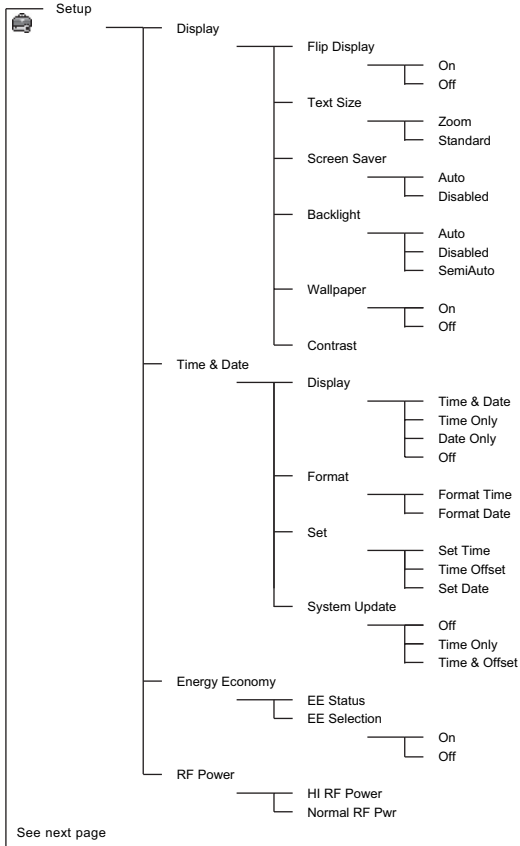


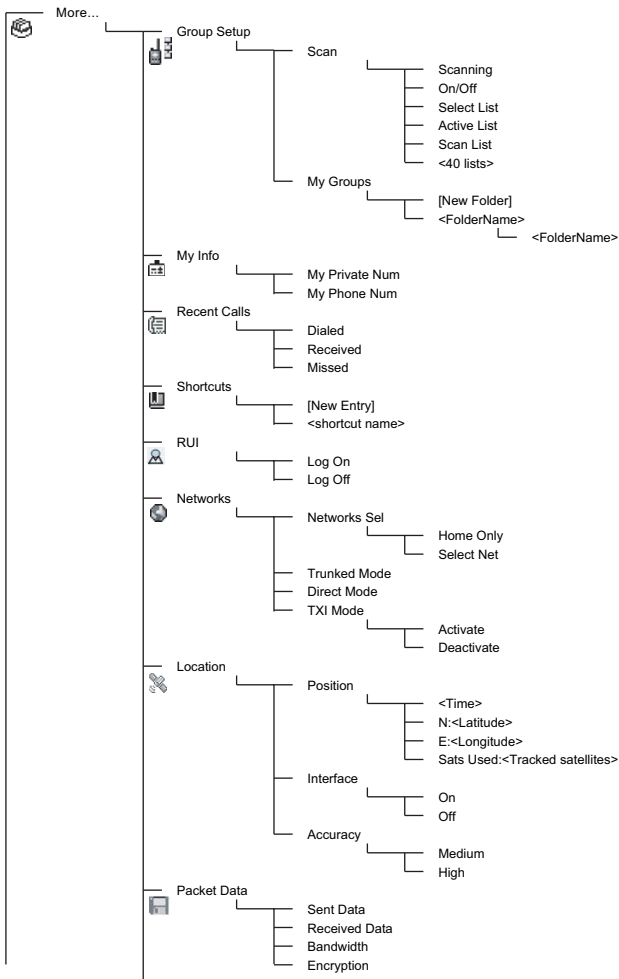
# List of Menu Items





See next page






**NOTE** *This is the standard menu layout. Your Service Provider may enable/disable some menu items or change their names.*


## Creating Menu Shortcuts

Use shortcuts to access frequently-used menu items.


### Menu Shortcut Creation

Navigate to the menu item and press and hold  as the item is highlighted.

### Menu Shortcut List

To look for assigned shortcuts, press  and select **More... > Shortcuts > <shortcut name>**.

### Menu Shortcut Use






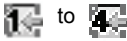
From Home display, press  and the numeric key(s) assigned to the shortcut.










## The Display














When you use your MTP850, icons appear on the display to indicate the following conditions.

## Status Icons

Status icons appear when your phone is engaged in certain activities or when you have activated certain features.









Status Icon	Description
<b>Trunked Mode Operation (TMO)</b>	
	<b>Signal Strength</b> Allows you to check signal strength. More bars indicate a stronger signal.
	<b>No Service</b>
	<b>Scan</b> Indicates scanning is activated in the MTP850.
	<b>Data Connected</b> Displayed when the MTP850 is successfully connected to an external device and ready for data transfer.
 	<b>Data Transmit/Receive</b> Displayed when the MTP850 is transferring data to/receiving data from the external device (laptop or desktop PC). <b>No number</b> – standby data session. <b>Number 1, 2, 3, or 4</b> – indicates active data session with 25%, 50%, 75%, or 100% bandwidth.

Status Icon	Description
<b>Direct Mode Operation (DMO)</b>	
	<b>Signal Strength</b> Indicates an incoming Direct Mode Group Call.
	<b>Direct Mode</b> Displayed when the MTP850 is in Direct Mode.
	<b>DMO Gateway</b> Indicates that gateway is selected. The icon has three states: <b>Solid</b> – while the MTP850 is synchronised with the gateway. <b>Flashing</b> – while the MTP850 is not synchronised or during attachment. <b>No icon</b> – during a terminal to terminal and repeater call.
	<b>DMO Repeater</b> Displayed when the repeater option in DMO is selected. This icon has three states: <b>Solid</b> – while the terminal has detected the repeater (i.e., when the terminal receives a presence signal). <b>Blinking</b> – while the terminal has not detected the repeater or during attachment. <b>No icon</b> – during a terminal to terminal and gateway call.
<b>General Icons</b>	
	<b>All Tones Off / Duplex &amp; Simplex Ring Muted</b> Indicates that all alert tones are off in the MTP850 or both Simplex Ring volume is set to 0 and Duplex Ring volume is set to 0.
	<b>Simplex Ring Muted</b> Indicates that Simplex Ring volume is set to 0 and Duplex Ring volume is set to more than 0.
	<b>Duplex Ring Muted</b> Indicates that Duplex Ring volume is set to 0 and Simplex Ring volume is set to more than 0.
	<b>Vibrate On</b> Indicates that the MTP850 will vibrate to alert you of an incoming call.
	<b>Vibrate then Ring</b> Indicates that the MTP850 will vibrate then ring to alert you of an incoming call.

Status Icon	Description
	<b>Speaker Off (Low Audio)</b> Indicates that the audio will sound through the earpiece. (See detailed explanation of Speaker Control key.)
	<b>Low Audio</b> Indicates that the audio mode is changed to low.
	<b>High Audio</b> Indicates that the audio mode is changed to high.
	<b>Earpiece Connected</b> Indicates that the earpiece is connected.
	<b>RUI Pseudo Log On</b> Indicates that the user is pseudo logged on.
 	<b>Pseudo Log On with Packet data</b> Indicates that the user is pseudo logged on and Packet Data at the same time.
	<b>Battery Strength</b> Shows the charge in your battery. Full icon is full charge.
	<b>RF Power</b> Indicates the High RF Power is enabled. Shows the signal strength. More bars indicate a stronger signal.
	<b>Emergency</b> Appears while the MTP850 is in Emergency Mode.
	<b>List Scrolling</b> Displayed to indicate that the Rotary knob use is list scrolling, as long as this use is selected.
	<b>New Message Has Arrived</b> Indicates a new message just arrived.
	<b>New Message(s) in Inbox</b> Indicates that you have unread messages in your inbox.

## Menu Icons






The following icons make it easy to identify the menu items at first glance.

Menu Icon	Description
	<b>Main Menu Items/Context Sensitive Menu</b> Appears above  if the main menu items/context sensitive menu are active.
	<b>Messages</b> <ul style="list-style-type: none"><li>• Send status messages,</li><li>• Send text messages (free text or according to user defined or predefined templates),</li><li>• Receive messages in inbox.</li></ul>
	<b>Contacts</b> Add, search, edit, or erase entries in the contact list.
	<b>Security</b> Lets you turn On/Off and verify security features, and change passwords.
	<b>Setup</b> Allows you to customise your MTP850.
	<b>More...</b> Contains more customisable menu items.
	<b>Scroll Bar</b> Indicates navigation among items that occupy more than one screen. If all items appear in one screen, the scroll bar is empty.










## Inbox Icons

The following icons indicate the status of messages in the inbox.

Inbox Icon	Description
	<b>Unread (New) Message</b> Indicates that you have not read the message yet.
	<b>Read (Old) Message</b> Indicates that you have read the message.
	<b>Sender Information in Message View</b> Indicates sender information (name or number).
	<b>Time and Date Stamp in Message View</b> Indicates the time and date of message arrival.
	<b>Delivery Status Received</b> Indicates delivery status for Store & Forward messages.




## Contact Icons

In the contact list display, the following icons may appear next to the contact numbers to indicate the type of stored number.

Contact Icon	Description
	<b>Private ID Number</b>
	<b>Mobile Phone Number</b>
	<b>Home Phone Number</b>
	<b>Work Phone Number</b>
	<b>PABX Number</b>
	<b>Other Phone Number</b>
	<b>Pickers</b> Indicate more than one number is stored with the contact.

## Outbox Icons


In the Outbox submenu those three icons indicate the process of sending the Store & Forward messages. For more information please contact your Service Provider.

Outbox Icon	Description
	<b>Delivery in Progress</b>
	<b>Delivery Accomplished</b>
	<b>Delivery Failed</b>


## Text Entry Icons

### *Selecting the Text Entry Mode*

Text entry modes make it easy for you to enter names, numbers, and messages.


In the text entry screen, select  > **Entry Mode**, and then select one of the following modes:

- **Primary** – for entering alphanumeric characters
- **Numeric** – for entering numbers only
- **Symbol** – for entering symbols only
- **Secondary** – for entering alphanumeric characters. (This mode is optional and you have to add it to the list.)

In the text entry screen, you can also press  repeatedly to change to Primary, Numeric, Symbol, or Secondary (if you have set it up).

### *Adding Secondary to the List of Text Entry Modes*

Secondary is convenient when you use one language, and sometimes wish to switch to another one.

This mode appears in the list only if you set it up first via  > **Entry Setup**.

**None** is the default programming from factory and indicates no secondary entry mode is selected.

### *Selecting the Text Entry Method and Language*


There are seven text entry methods:

- **TAP** – Enter letters, numbers and symbols by pressing an Alphanumeric key one or more times.

- **iTAP** – Let the terminal predict each word as you press an Alphanumeric key.
- **PinYin Trad.** – Pin Yin for Chinese text. Enter Pin Yin words by pressing the relevant keys. The system generates all possible Pin Yin words corresponding to the key presses. The system also generates a corresponding list of Chinese characters related to each Pin Yin word.
- **Stroke Trad.** – Stroke for Chinese text. Press the relevant keys to enter a stroke sequence. The system generates a list of Chinese characters that corresponds to the entered stroke sequence.
- **PinYin Simpl.** – Pin Yin for Chinese text. Enter Pin Yin words by pressing the relevant keys. The system generates all possible Pin Yin words corresponding to the key presses. The system also generates a corresponding list of Chinese characters related to each Pin Yin word.
- **Stroke Simpl.** – Stroke for Chinese text. Press the relevant keys to enter a stroke sequence. The system generates a list of Chinese characters that corresponds to the entered stroke sequence.
- **BoPoMoFo (Zhuyin)** – Characters for Chinese text. Entry sequence similar to Pin Yin text entry, but generates a different set of characters for selection.

You can enter text that is made up of completely English characters, or completely Chinese characters, or a mixture of both English and Chinese characters.

You can use these methods in the languages programmed in the terminal.

In the text entry screen, select  > **Entry Setup**, and then change to one of the methods and its related language (for example: TAP English).

### Text Capitalisation

Press .

### Icons

In the text entry screen, icons tell you which text entry mode and method you are using. A character counter icon indicates the number of entered characters.

Primary Icons	Secondary Icons	Description
abc 1	abc 2	TAP – no capitals











Primary Icons	Secondary Icons	Description
abc 1↑	abc 2↑	TAP – capitalise next letter only
ABC 1↑	ABC 2↑	TAP – all capitals
abc	abc	iTAP – no capitals
abc	abc	iTAP – capitalise next letter only
ABC	ABC	iTAP – all capitals

Numeric Icon	Description
123	Enter numbers.



Symbolic Icon	Description
@	Enter punctuation and symbols.

Chinese Text Icon	Description
ài	You are in the Pin Yin mode.
→	You are in Stroke mode.
↷	You are in BoPoMoFo (Zhuyin) mode.

### List of Keys and Characters in Alphanumeric Mode (TAP/iTAP)

Key	Alphanumeric Mode (TAP/iTAP)
	Press to cycle through single shift, caps lock, and lower case.
	., ? ! 0 1 @ ' ' - ( ) / : _ ; + & % * * = < > € £ \$ ¥ ¢ [] {} \ ~ ^ ` ¡ ¢ § #
	ABC 2 a b c 2
	DEF 3 d e f 3
	GHI 4 g h i 4
	JKL 5 j k l 5
	MNO 6 m n o 6
	PQRS 7 p q r s 7
	TUV 8 t u v 8
	WXYZ 9 w x y z 9

### List of Keys and Characters in Numeric Mode

Key	Numeric Mode
 to 	<ul style="list-style-type: none"> <li>• Press to enter digit at insertion point.</li> <li>• Press and hold any numeric key to enter TAP alphanumeric mode.</li> <li>• To exit TAP alphanumeric mode, press and hold any numeric key.</li> </ul>

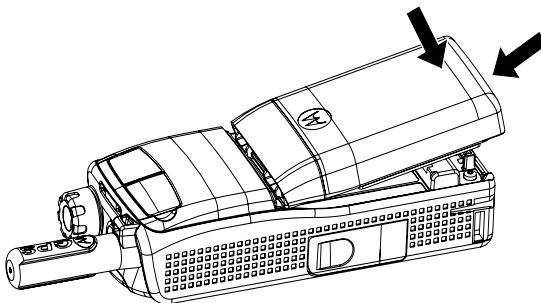
# Getting Started

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## Battery

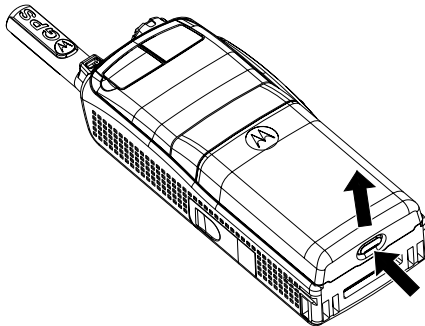
### Installing the Battery

1. Remove the battery from its protective clear plastic case.
2. Insert the battery top into the compartment as illustrated.
3. Carefully press the battery bottom downward until it clicks into place.



### Replacing the Battery

1. To remove the battery, push the latch on the bottom.
2. Lift the bottom of the battery out.
3. Replace the battery.



## 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 MTP850 can be either **On** or **Off** during charging.

1. Insert the connector on the charger into the socket at the base of the MTP850. 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 MTP850 displays the **Charger Connected** message only if the MTP850 is **On** when connecting the charger. If the MTP850 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**

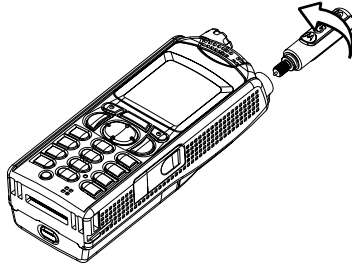
## Battery Capacity Information

Information	Description
Green icon	Full (50% – 100% capacity)
Yellow icon	Middle (20% – 50% capacity)
Red icon	Low (10% – 20% capacity)
Empty icon	Very low (5% – 10% capacity)
<b>Low battery</b> message	Less than 5% capacity


## Attaching the Antenna

**NOTE** Turn the MTP850 Off before installing or removing the antenna.

Insert the bottom of the antenna into the screw-in base on the top of the MTP850. Turn clockwise until snug. **Do not force.**



## Powering On/Off (On-Off/End/Home Key)


To power **On**, press and hold . Your MTP850 performs a self-check and registration routine. After successful registration, the MTP850 is in service.

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

## Powering On (Emergency Button)

Press and hold the Emergency button to power **On**. The MTP850 will power **On** in Emergency Mode 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  and select **More... > Networks > TXI Mode > Activate**.



**WARNING**

*Pressing the Emergency button, even if Transmit Inhibit is activated, causes the MTP850 to transmit immediately. The MTP850 must **NOT** be within the RF sensitive area when entering Emergency Mode.*



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** soft key to deactivate the TXI Mode. If the MTP850 was previously used in Trunked Mode, it will register to the network. If the MTP850 was previously used in Direct Mode, it will remain in Direct Mode.

Press **No** in Trunked Mode and the MTP850 powers down; press **No** in Direct Mode and you remain in Direct Mode with TXI selected.

## Unlocking the MTP850





Your MTP850 may be locked at power up.

To unlock the MTP850 after powering on, enter the code at the prompt. The MTP850 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.

## Locking/Unlocking the Keypad

To prevent accidental key/button presses:

Press   to lock the keypad. Press again   to unlock. Service Provider can choose the notification for the Keypad lock and if to lock the **PTT**.

### **Keypad Lock Notification**

When the keypad is locked one of the following instructions is displayed:

- None – no notification is display.
- Notification Only – **Keys Locked** is displayed.




Notification and Instruction – **Keys Locked, Press Menu and \* to lock/unlock** is displayed.

### **Automatic Keylock**

This feature locks the keypad automatically after not using it for a predefined time. To turn it on/off or to set the delay go to **Menu > Security > Keylock Setup**.

## Keypad Lock on Startup


The user can set the Keylock at the start up of the terminal. To turn it on / off go to **Menu > Security > Keylock > Start Locked**.


**NOTE** When there is an incoming call and the keypad with **PTT** are locked, you can still use the **PTT**, Rotary knob, , , and .

**NOTE** The Emergency button is not locked. Pressing the Emergency button unlocks the keypad.

## Radio User Identity (RUI)

Your MTP850 needs to confirm RUI to provide the full service. After powering on you are prompted to input your **User ID** and **User PIN**.

To **Log on** press  > **More...** > **RUI** > **Log on**

To **Log off** press  > **More...** > **RUI** > **Log off**

If the Log on is not successful radio has limited access which is specified by the Service Provider.

**NOTE** Radio with RUI feature disabled provides the full service to the user without login prompt.

**NOTE** All the time the display indicates if the user is logged on (blue color of the icon) or logged off (grey color of the icon).

# Selecting TMO or DMO Operation

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## Entering TMO or DMO

Enter TMO or DMO in one of the following ways:

- From the Home display press **Optns** and select **Direct Mode** if the MTP850 is in TMO.
- From the Home display press **Optns** and select **Trunked Mode** if the MTP850 is in DMO.
- Press **MENU** and select **More... > Networks > Trunked Mode** if the MTP850 is in DMO.
- Press **MENU** and select **More... > Networks > Direct Mode** if the MTP850 is in TMO.
- Press the TMO/DMO one-touch button (if programmed by your Service Provider).

You can make and receive the following types of calls when the MTP850 operates in Trunked Mode:

- Group Calls
- Private Calls
- Phone Calls
- PABX Calls – local (office) extension calls
- Emergency Calls
- Emergency Private Calls.

You can make and receive Group and Private Calls when the MTP850 operates in Direct Mode. This includes Emergency Group Calls.

The MTP850 returns to the Home display when there is no activity for a few seconds.

**NOTE** *Your terminal can alert you of an incoming call. Select the alert settings in the Vibrate menu and Tones menu items.*

# Group Calls

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

Groups are organized in maximum three folders. Each folder may contain folders and several groups.

## Favorite Folders


You can organise your favorite groups into three folders.

## Selecting the “My Groups” Folders


**NOTE** *Default name for the first favorite folder is “My Groups”.*


From the Home display, press  to quickly access the folders.

## Adding a Group (TMO/DMO)

1. Press  and select **More... > Group Setup > My Groups > <FolderName> > [New Group]**.
2. Select a group by alphabetic search (“**TMO/DMO by abc**”). Enter up to 12 characters of the group name. Or select a group by folder search (“**TMO/DMO by Folder**”). Select the folder and select the group. The group is added to the “My Groups” folder.

## Deleting a Group (TMO/DMO)

1. Press  and select **More... > Group Setup > My Groups > <FolderName>**.
2. Highlight talkgroup name that you want to delete and select **Delete**.

**NOTE** *To delete all the groups press  and select **Delete All**. This option is available only if the Service Provider enables it.*

3. Press **Yes** to confirm.

## Renaming Favorite Folder

1. Press **MENU** and select **More... > Group Setup > My Groups**.
2. Highlight a group folder name and press **MENU**.
3. Select **Rename Folder**.
4. After editing the name of the folder press **Ok** to confirm.

## Deleting Favorite Folder

1. Press **MENU** and select **More... > Group Setup > My Groups**.
2. Highlight a group folder name and press **MENU**.
3. Select **Delete Folder**.
4. Press **Yes** to confirm.

### NOTE

*You cannot delete the last favorite folder.*

## Selecting a Group

### NOTE

*When you navigate in the Favorite folders and select a DMO group, your terminal will switch between TMO and DMO (and vice-versa).*

## Using the Rotary Knob

(If programmed)

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.

## Using Alphabetic Search

From the Home display, press **Optns**. Select a group by alphabetic search ("**TG by abc**"). Enter up to 12 characters of the group name.

Select the group.

### NOTE

*Even if the talkgroup exist in couple folders, alphabetic search displays it once.*

## 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.

## Using the Numeric Keypad - Speed Dialing

From the Home display, you can dial a group by entering its speed number via the keypad. This feature is called Talkgroup Speed Dialing. The speed number is pre-configured in the terminal.


You can view a speed number attributed to a group, if it exists.

### *Viewing the speed number*

1. From the Home display, press **Optns**.
2. Select **TG by Folder** and then appropriate folder name.
3. Press .
4. Select **View** to view the talkgroup speed number.

In this example “82” is the speed number. Press **Back** to return to the attached group screen.

### *Using a speed number*

1. Enter a number (for example: “82”).
2. Press .
3. Press **Attach** to attach the new group, or press **PTT** to attach and call.

### **NOTE**

*Speed Number for the TMO and DMO groups can be the same. For example if you are in TMO mode all the speed numbers from this mode are going to work.*

## Selecting 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.


## TMO Group Calls

In TMO the MTP850 is used with your Service Provider’s infrastructure.

## Making a TMO Group Call

1. From the Home display and if this is the required group, press and hold the **PTT**.
2. Wait for the talk permit tone and then speak into the microphone. Release the **PTT** button to listen.

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

**NOTE** *If you are in an on-going Group Call and wish to make a new call, press  to ignore the current call. Start the new call.*

**NOTE** *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 TMO Group Call

Unless it is engaged in a call, your MTP850 will receive the Group Call. To answer the call, press and hold **PTT**.

Your MTP850 shows the group name and the caller's private number or alias if previously stored in your contact list.


## 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 MTP850s 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.

## PTT Double Push

This feature, if enabled by your Service Provider, allows you to send the tone when the radio is in idle or Group Call mode by pressing PTT twice. After the D-PTT tone is played, the user can press and hold the PTT once again to get the permission to talk.

To change the tone, press  > **Setup** > **Tones** > **D-PTT** > **Tone Style** and choose **Single**, **Double** or **Triple**. Please go to "Audio Signal Tones" on page 8 to view the specification of the tones.

To turn on/off this feature, press  > **Setup > Tones > D-PTT Tones > D-PTT Mode.**

## DMO Group Calls

In DMO the MTP850 can be used without your Service Provider's infrastructure.

DMO allows communication with other terminals also operating in DMO, which are on the same frequency and group as your MTP850.

**NOTE** *In DMO it is only possible to place the following call types: Group Calls, Emergency Group Calls, Private and Private Simplex Calls.*

When you start a call, the members of the selected group who have their units turned on will receive the Group Call.

In DMO the MTP850 can communicate with the trunking system (and vice-versa) if the Gateway option is enabled in the MTP850.

## Making a DMO Group Call

1. Enter **Direct Mode** by pressing **Optns** and selecting **Direct Mode**.
2. Make sure that you have selected the required group. Press and hold the **PTT** button.
3. 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 MTP850 is in DMO.

Unless it is engaged in a call, your MTP850 will receive the Group Call. To answer the call, press and hold **PTT**.

Your MTP850 shows the group name and the caller's private number or alias if previously stored in your contact list.

## Exiting DMO


To exit DMO, press **Optns** and select **Trunked Mode**.







# Private, Phone, and PABX Calls

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## NOTE


If you are in an on-going Group Call wish to make a new call, press  to ignore the current call. Dial the number.

## Creating a Contact

1. From the Home display, press **Contcs**. Select [New Contact].
2. Enter name. Press **Ok** to confirm.
3. Press  /  and select the type of stored number (such as Private).  
OR
  - Press **Change**, the display shows 6 type selections.
  - Press  /  to choose a type of stored number.
  - Press **Select**, the display returns to Contact Details screen.
4. Enter number (#). Press **Ok**.
5. Continue to enter other types and numbers, as you may keep several numbers (Private, Mobile, Home, Work, PABX, Other) for the same person under the same contact name.
6. When finished, press **Done**. Press **Back** to return to Home display.





## How to Dial

### Dialing a Number

1. From the Home display dial a number.
2. Press **CType** repeatedly to select the call type (Private, Phone, or PABX).
3. Press **PTT** or  depending on the call type.



## Dialing via the Contact List


You can also use the contact list to select a number you previously stored. Press **Contcs** and search the stored number by scrolling

( or ) or by entering up to 12 characters of the contact name using alphabetic search. If the contact has more than one number, use  /  to select the number.

## Speed Dial

Speed dial allows you to dial a shortened number of up to three digits instead of the full number. The speed dial number is the location of an entry in the contact list.

1. Enter the pre-programmed speed dial number (for example: 5) and press .
2. To place the call, press .


To hang up, press .


## 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. This call can be:

- a Duplex call (if the system allows) in TMO, or
- a standard Simplex call in TMO or DMO.



## Making a Private Call

1. From the Home display dial a number.
2. If Private is not the first type of call presented, press **CType** to select the Private Call type.
3. For a *Simplex* call, press and release the **PTT** button. You will hear a ringing tone. Wait for the called person to answer your call. Press and hold **PTT**. Wait for the talk permit tone (if configured) before talking, and release the **PTT** when listening.  
For a *Duplex* call, press and release . You will hear a ringing tone. Wait for the called person to answer your call.

- To end the call, press . If the called person ends the call, the **Call Ended** message is displayed.

**NOTE** *While Transmit Inhibit is activated, an incoming Private Call is indicated, but you cannot answer the call.*

## Receiving a Private Call

- The MTP850 switches to the incoming Private Call. The display shows the caller's identity.
- To answer an incoming *Simplex* call, press **PTT**. To answer an incoming *Duplex* call (indicated by **Spkr/Erpc** soft keys), press  or green receiver button.
- To end the call, press .

**NOTE** *Your terminal can alert you of an incoming call. Select the alert settings in the Vibrate menu and Tones menu items.*

## Phone and PABX Calls

The **Phone Call** allows you to call a landline telephone number, a cellular mobile phone number or another terminal using ISDN number.

**NOTE** *Feature MS-ISDN enables the terminal to make and receive the calls from the phone using ISDN number.*

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

In this publication we use "phone number" when referring to these numbers.

**NOTE** *While Transmit Inhibit is activated, an incoming Phone or PABX Call is indicated, but you cannot answer the call.*

## Making a Phone or PABX Call

- From the Home display dial a number.
- If Phone or PABX are not the first type of call presented, press **CType** repeatedly to select the Phone or PABX call type.
- Proceed as for making and receiving Duplex Private Calls..  
If the user presses the PTT button it initiates a Simplex Phone Call.

# Emergency Mode

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You can send and receive **Emergency Group Calls** in **Trunked Mode** or in **Direct Mode**. 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:

- selected group (TMO and DMO) (if tactical emergency)
- pre-defined group (if non-tactical emergency).

Contact your Service Provider to know which is the selected mode.

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, press **and hold** the Emergency button at the top of the MTP850.

**NOTE** *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.*

**NOTE** *Pressing the Emergency button activates one or more services. Contact your Service Provider for more information.*

To exit Emergency Mode, press and hold **Exit**. Your terminal will switch to the Home display.

## Sending an Emergency Alarm

Your MTP850 will send an Emergency Alarm to the dispatcher (if configured by your Service Provider):

- Automatically, upon entering Emergency Mode.
- If you press the Emergency button again while the MTP850 is in Emergency Mode.

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

- **Alarm Sent**
- **Alarm Failed**

In both cases, the display returns within a few seconds to the main screen of the Emergency Mode.

Due to no delivery confirmation in DMO, **Alarm Sent** information confirms only sending the alarm.



### WARNING

*Pressing the Emergency button, even if Transmit Inhibit is activated, causes the MTP850 to transmit immediately. The MTP850 must **NOT** be within the RF sensitive area when entering Emergency Mode.*

### NOTE

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

### NOTE

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

## Hot Microphone Feature

If the Hot Microphone feature was programmed into your MTP850 by your Service Provider, you can make an Emergency Group Call and talk to the dispatcher (and members of your group) 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 MTP850 returns 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 button again. Also your Service Provider is able to resume Hot Mic without user interaction by setting Alternating Hot Mic feature.

### NOTE

*Hot Microphone feature is available in DMO and TMO mode.*

## Making an Emergency Group Call





- Hot Microphone enabled – to initiate an Emergency Group Call, press and hold **Emergency Button**.
- Hot Microphone disabled – to initiate an Emergency Group Call, press and hold **Emergency Button**. When the display has changed to Emergency Group Call hold **PTT** and wait for talk permit tone (if configured) and talk. Release the PTT to be able to listen.

## Silent Emergency Mode

**NOTE** *Silent Emergency Mode needs to be enabled by the Service Provider to be able to use it.*

To enter Silent Emergency Mode, press **Emergency button**.

Silent Emergency Mode provides no audible and visible indication. All of the key tones are switched off.

To exit Silent Emergency Mode, press  and  key simultaneously or  and then  key within 3 seconds.

## Call-Out

This feature allows the user to receive Call-Out alerts. When the Call-Out messages has been received by the radio, it interrupts current services and attends to the Call-Out alert without any further delay. After Call-Out alert has been cleared, the radio exits Call-Out mode and reverts back to normal mode. User is able only to receive Emergency Calls during Call-Out mode. There are four types of the Call-Out alert:

- Normal Call-Out
- Storm plan – it is sent to a group several time to raise reliability. User can only accept the Call-Out by pressing any button and is moved to information phase (soft keys are not labelled).
- Fallback Mode – it includes only voice communication. It can be cleared manually

**NOTE** *Fallback is only possible when Radio is in Local Site Trunking.*

- Test Call-Out – dispatcher has the ability to test this feature. Radio is generating the tone with **Call-Out Test** on the display. Only one softkey is enabled **Test OK** to confirm and to clear the test.

### **Interactions when the user is in other mode**

- TXI Mode – users can read the message but they can not respond to it. They have an option to leave the TXI Mode by pressing soft key or reject the Call-Out message.
- DMO Mode – Call-Out is not supported.
- Emergency Mode – all the Call-out alert are ignored.

### **Call-Out service phases**

- Alerting phase – user receives a Call-Out message. The alarm tone indicates the message text is displayed and under it there are three options for the user to pick: **Accept**, **Reject** or **MENU**. If the user will accept the alert no other service from this point can interrupt. **MENU** key gives more choices.

**NOTE** *The user can stop the alert tone by pressing PTT or any of the soft keys.*

- Information phase – user is still in the Call-Out mode and he can receive more detail information about the incident that occurred via subsequent text or the voice message. The user can query for more information using voice group call or Call-Out text function which enables the user to send a text message to the Service Provider. User can always respond and send back the text or the voice message using voice group call.

### **Call-Out Box**

Call-Out Box is giving the user the option to view and store the Call-Out messages for future reference.

To view them press **MENU** > **Messages** > **CO Box**.

When the radio is in Call-Out Mode, you can only read the ongoing Call-Out messages.

# Messages

---

## Sending a Status Message

Select the desired group, then press **MENU** and select **Messages > Send Status**. Select status and press **OK** or **PTT**.

## Sending a New Message

Press **MENU** and select **Messages > New Message**. Write your message. Select **Send**, or press **OK** or **PTT**. Select your mail recipient or enter number. Select **Send**, or press **OK** or **PTT** to send the new message.

**NOTE** *The message can be send to private, phone and a group number. Phone option needs to be enabled by your Service Provider.*

## Sending a User-defined Message

Press **MENU** and select **Messages > Templates**. Scroll and choose your required template. Select **Send**, or press **OK** or **PTT**. Select your mail recipient or enter number. Select **Send**, or press **OK** or **PTT** to send the message.

## Sending a Predefined Message

Press **MENU** and select **Messages > Predefined**. Scroll and choose your required template. Press **MENU** and select **Edit** to edit the message. Type required information. Select **Send**, or press **OK** or **PTT** to send the message.

## Handling New Incoming Text Messages

Your MTP850 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** soft key. To read a long message, press **More** to read the next page and **Back** to return to the previous page.



Then select **Reply**. Or press **MENU** and select to **Store / Delete / Delete All / Forward**.

**NOTE** *For Long Text Messages Reply, Store and Forward options are not available.*

## Handling Unread (New) Messages

Press **MENU** and select **Messages > Inbox**. Scroll to the message and select **Read** soft key. To read a long message, press **More** to read the next page and **Back** to return to the previous page.

Press **MENU** and select to **Store / Delete / Delete All / Reply / Forward / Refresh**.


**NOTE** *Message contains up to 1000 characters.*

**NOTE** *It is possible to send the message to more than one user. Pick the group from the contact list on your MTP850.*

# Tips & Tricks


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## **Modeless Operation**

No need to select a mode (Group / Private / Phone) before initiating a call. Just dial a number and press **CType** (call type) soft key to decide what call it is (then press **PTT** or ).

## **Home Key**

Not sure where you are? Want to get back to Home display?




Press .

## **Backlight Control**

You can either disable backlight (covert operation) or have it automatically turned on, by pressing any key. Third option is semi-auto, which means that only switching on the radio, pressing assigned button to the backlight feature and charging can trigger backlight.


The backlight remains on until the pre-programmed timer runs out.

## **Menu Shortcuts**

- You can easily access any menu item, by pressing  and a Numeric key. (No delay between  and the key!)
- You can ask your Service Provider to program menu shortcuts.
- You may also define a new shortcut: enter the menu item, press and hold , and follow the instructions in the display.

## **High/Low Audio Control**

You can control audio routing (speaker/earpiece/PHF) for any Private or Group Call via the dedicated Speaker Control key.


However, you can define via the menu to have all Group Calls in high audio ( > **Setup > Audio > Audio Toggle > Always Loud**).

**NOTE** *High/Low audio control is switched via One Touch Button. Contact your service provider for more information.*

### **Unified Contact List**

You can keep several numbers (Private, Mobile, Home, Work, PABX, Other) for the same person under the same contact name. You can create up to 1000 contacts, and have a total of 1000 private numbers and 1000 phone numbers.

### **Text Size**

You can see the text on the display in two sizes: **Standard** or **Zoomed** ( > **Setup > Display > Text Size**).

### **Group Capacity**


Your Service provider can program up to 2048 groups for Trunked Mode, and up to 1024 groups for Direct Mode.

### **Flexible Folders**

You can ask your Service Provider to define how many groups will be in each folder (up to 256 folders).

### **“My Groups” Folders**

You can select any group (TMO or DMO) and add it to your personal folder.

In the Home display, press  to quickly access your “My Groups” folders.

### **Options (in the Home Display)**

You can easily change folder, select groups, switch between TMO and DMO (and vice-versa), and other functions via the Home display Options.

### **Easy Navigation while in Menu**


When scrolling up/down menu items, try also right/left scrolling. (This will select the item or return to previous level.)

### **Flipped Display On/Off**



When this feature is activated, the contents of the display are flipped upside down. This feature is particularly useful if you have to wear the MTP850 on the shoulder, belt, or lapel and at the same time wish to read the display upside down.

To activate/deactivate, press  and select **Setup > Display > Flip Display**. Or press and hold the pre-programmed one-touch button.


### **Dialed Call List – Quick Access**

From the Home display press  to access the list of the last dialed calls.

### **Automatic Scrolling via Navigation Key**




In a list press and hold  or  for automatic scrolling.

### **Recent Calls Menu – Quick Access**

From the Home display press .

### **Setting Time & Date**

Time and date are synchronized by the infrastructure. When not within the infrastructure signal range you can set the values manually.

- To set time press  and select **Setup > Time & Date > Set > Set Time**. Enter time using navigation key and/or numeric keypad.
- To set date press  and select **Setup > Time & Date > Set > Set Date**. Enter date using navigation key and/or numeric keypad.
- To automatically set date and time press  and select **Setup > Time & Date > System Update**. Pick one out of three options accordingly to your needs:
  - **Off** – System Update is turned off
  - **Time only** – time is updated
  - **Time & Offset** – the time is updated automatically according to the current time zone when user is in TMO mode. In DMO mode the radio is using its internal clock.

### **Template Names**

User is able to give the title of the template by his preference. If no default name is given.

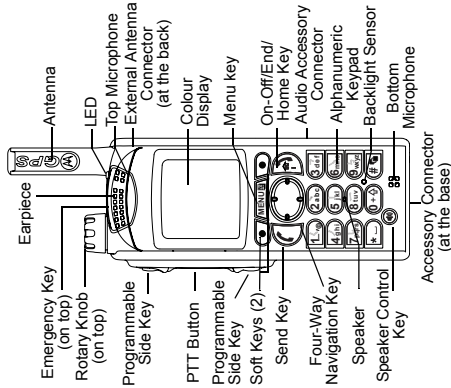
### **Toggling between Talkgroups**

You can switch the last two talkgroups in any mode and between the modes. For example when you are in TMO and would like to switch to the last Talkgroup that was in DMO, press and hold One Touch Button. It works in both ways and in one mode. After powering off, the radio remembers your two last Talkgroups.



## MTP850

### Quick Reference Guide



**Turning the MTP850 On/Off**  
To power the MTP850 on/off, press and hold

### Using the MTP850 Menu System

- To enter the menu, press .
- To scroll through the menu, press or .
- To select a menu item, press **Select** soft key or .
- To return to previous level, press **Back** or .
- To exit the menu items, press .

### 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.
- From the Home display press **Opts.**, select **Trunked Mode** or **Direct Mode**.

### Making a TMO Group Call

From the Home display navigate to the desired group. Press **Select** soft key (if configured). 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 group. Press **Select** soft key (if configured). 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 **Emergency Mic On** message to appear on the display and talk without pressing **PTT**.

To exit Emergency Mode, press and hold **Exit** soft key.

### 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** soft key.

### Making a TMO Simplex Private Call

From the Home display dial a number. Press **CType** to select the call type. 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 DMO Simplex Private Call

Enter DMO. From the Home display dial a number. Press and hold **PTT**. Wait for the talk permit tone (if configured) and talk. Release **PTT** to listen. Press **↵** to terminate call.

### Making a Duplex Private Call/Phone/PABX Call

From the Home display dial a number. Press **CType** to select the call type. Press and release **↵**. Ringing sounds. Called party answers. Press **↵** to terminate call.

### Answering a Call

Your MTP850 switches to the incoming call and alerts you of the incoming call. To answer the call, press **↵** for Phone/PABX/Duplex Private calls or press **PTT** for all other calls.

### Sending a Status Message

Select the desired group, then press **↵** and select **Messages > Send Status**. Select status and press **↵** or **PTT**.

### Sending a New Message

Press **↵** and select **Messages > New Message**. Write your message. Select **Send**, or press **↵** or **PTT**. Select your mail recipient or enter number. Select **Send**, or press **↵** or **PTT** to send the new message.

### Tips & Tricks

- **Home Key**

Not sure where you are? Want to get back to Home display? Press **↵**.

- **Backlight Control**

You can disable backlight (covert operation), have it automatically turned on by any key pressed or Semi Auto which turns on the radio by charging and pressing assigned button.

You can also press the upper Side Key - just to turn On/Off the backlight (if configured).

- **Menu Shortcuts**

You can easily access any menu item, by pressing **↵** and a numeric key. (No delay between **↵** and the key!)

You can ask your Service Provider to program menu shortcuts.

You may also define a new shortcut:

enter the menu item, press and hold **↵**, and follow the instructions in the display.

- **High/Low Audio Control**

You can control audio routing (speaker / earpiece/PHF) for any Private or Group Call via the dedicated speaker control key.

However, you can define via the menu to have all Group calls in high audio

(**↵**) > **Setup > Audio > Audio Toggle**).

- **Unified Contact List**

You can keep several numbers (Private, Mobile, Home, Work, PABX, Other) for the same person under the same contact name.

- **Text Size**

You can see the text on the display in two sizes: **Normal** or **Zoomed** (**↵**) > **Setup > Display > Text Size**).

- **“My Groups” Folder**

You can select any group (TMO or DMO) and add it to your personal folder. In the Home display, press **↵** to quickly access your “My Groups” folder.

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# 安全信息



小心

在使用这些产品之前，请阅读随 MTP850 附带的产品安全和射频辐射手册 6804113J24 中有关安全使用的操作说明。

MTP850 仅限于能够满足 ICNIRP 射频能量辐射要求的职业应用。在使用这些产品之前，请阅读产品安全和射频辐射手册中有关的射频能量信息和安全操作说明（摩托罗拉出版物备件号 6804113J24），以确保符合射频能量辐射限制标准。

请将本用户手册和产品安全及射频辐射手册保存好，当附件转交给其他操作员时，可供他们参阅。

## 废弃处理信息



**欧盟废弃电子设备 (WEEE)** 指令要求，销往欧盟国家 / 地区的产品均须在产品上（有时是在包装上）张贴带交叉符的垃圾箱标签。根据 WEEE 指令的定义，此垃圾箱符号表示欧盟国家 / 地区的客户和终端用户不得将此电子电气设备作为生活垃圾处置。

欧盟国家 / 地区的客户或最终用户应联系当地的设备供应商代表或服务中心，以了解有关各国废物收集系统的信息。

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## 图标约定

本文档集可以为读者提供更多的直观提示。整个文档集中使用了以下图标，这些图标及它们各自的说明如下所述。



警告

“警告”一词及其关联的安全图标表示：如果忽视其中的信息，即可能导致死亡或导致严重的人身伤害或产品损坏。



小心

“小心”一词及其关联的安全图标表示：如果忽视其中的信息，即可能导致轻微或中等程度的人身伤害或严重的产品损坏。

小心

“小心”一词也可能单独出现，而没有关联的安全图标，这表示可能发生与本产品无关的产品损坏或人身伤害。

注意

“注意”含有比周围文字更重要的信息，如例外或注意事项。它们通常为读者提供一些补充参考信息，提醒读者如何完成操作（例如当此操作不是当前过程的一部分时），或者告诉读者某些项目在屏幕中的位置。“说明”没有相应的警告级别。

# MTP850 概述

## 控制键和指示灯

此处编号指内侧封面中示意图上的编号。

编号	说明
1	<b>天线</b>
2	<b>顶部麦克风</b> 在进行单工大声呼叫（如组呼）时激活。
3	<b>外部天线接口</b> 用于数字车载附件，以将射频信号连接到外部天线。 （MTP850 的背面）
4	<b>彩色显示屏</b> 提供 65,536 色和 130 x 130 像素的字母数字文本和图像，带有背景灯，对比度高，并可对字体进行缩放。
5	<b>开关 / 结束 / 初始键</b> <ul style="list-style-type: none"><li>• 按住可以打开 / 关闭 MTP850。</li><li>• 按下可以结束通话。</li><li>• 按下可以返回初始屏幕（待机屏幕）。</li></ul>
6	<b>四方向浏览按键</b> 按向上、向下、向左或向右按钮用于在菜单中滚动列表，或者用于编辑字母数字。
7	<b>音频附件接口</b> （MTP850 侧面）
8	<b>字母和数字键盘</b> 使用键盘输入字母数字字符用于拨号、输入联系人条目和文本短消息。
8 a	<b>键盘背景灯开 / 关感应器</b>
9	<b>底部麦克风</b> 在进行单工和双工小声呼叫（如电话呼叫）时激活。
10	<b>附件接口</b> 提供附件的连接。 （MTP850 底部）
11	<b>扬声器控制键</b> 选择听筒（小声）、PHF（小声）或扬声器（大声）。

编号	说明
12	<b>扬声器（键盘下面）</b>
13	<b>发送键</b> 用于发起或应答双工呼叫（例如电话呼叫）或发送状态信息和文本短消息。
14	<b>菜单键</b> 用来进入主菜单和上下文相关菜单。
15	<b>软按键</b> 按下选择向左或向右软按键的选项。
16	<b>通话键 (PTT)</b> 按住此侧键可在单工呼叫中讲话，释放此按键接听。 按下可以发送状态信息和文本短消息。
17	<b>可编程侧键 1 和 2</b> 默认设定：上部的侧键可以打开 / 关闭背景灯；下部的侧键激活屏幕保护。 (同时参阅编号 19)
18	<b>耳机</b>
19	<b>可编程旋钮</b> 默认设定：“两下” – 按此旋钮可在“音量”和“列表”之间切换。按照设定操作侧键 (编号 17)。
20	<b>紧急键（位于 MTP850 的顶部）</b> 按住此键可以进入紧急模式，并发送紧急告警（按照设定）。 如果 MTP850 为关闭状态，按住此键可以在紧急模式或正常模式下将其打开（按照设定）。
21	<b>LED（指示灯）</b>

**注意**

在第一次使用 MTP850 之前，先除去显示屏上的透镜保护塑胶，并对电池彻夜充电以确保电池显示充满电。

**注意**

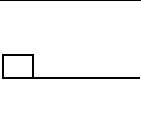
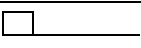
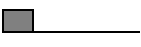
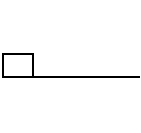
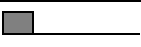
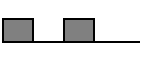



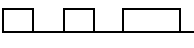

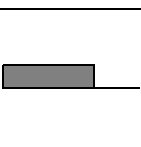
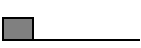
经常使用软刷清洁底部连接头（不要使用液体），尤其是在编程之前。

**注意**




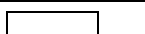

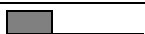


建议在连接任何附件之前先关闭对讲机。

# 音频信号音

□ = 高音; ■ = 低音。

说明	类型	重复次数
<b>空闲</b>		
<ul style="list-style-type: none"> <li>• 返回初始屏幕</li> <li>• 当旋转计时器超过时返回到旋转音量模式</li> <li>• 返回覆盖范围</li> <li>• 返回全服务状态</li> </ul>		一次
可以发送		一次
按键无效		一次
<ul style="list-style-type: none"> <li>• 按键有效</li> <li>• MTP850 开机时自检失败</li> <li>• 从“不在服务区”状态变为“在服务区”状态</li> </ul>		一次
<b>来电</b>		
呼叫清除告警音		一次
呼叫等待提示音, 表示电话或个呼正被挂起。		每隔 6 秒钟重复一次, 直到呼叫终止。
数据已连接或数据已断开		一次
每次按 PTT 都会听到 通话允许音		一次 (正常提示音)
		一次 (短提示音)
您一按 PTT 就会听到不通过网关的通话允许音。该提示音表示网关不再可用		两次
		一次
<ul style="list-style-type: none"> <li>• 通话禁止</li> <li>• 系统忙</li> <li>• 限时器超时</li> <li>• 被叫 MTP850 不可用或正忙</li> </ul>		直到您释放 PTT 为止。
因为网络原因呼叫被断开或失败		一次
拨叫号码错误		无提示音

说明	类型	重复次数
进入 DMO (直通模式)		一次
退出 DMO 模式		一次
本站集群 - 进入 / 退出		一次
电话呼叫的振铃回音 (发送)		每隔三秒重复一次，直到被叫用户应答或拒绝呼叫。
电话忙		每隔 0.5 秒重复一次。
状态信息已发送给调度员或发送失败		两次
<b>有呼叫正在呼入</b>		
状态信息已被调度员确认		四次
您的 MTP850 不通过网关接收到组呼 (仅设置)		一次
接收到高优先级的组呼		一次
发送或接收到紧急告警		两次
紧急告警失败		四次
接收到紧急呼叫		一次
电话振铃，双工个呼 (接收)	按照铃音类型子菜单设置。	直到您应答或拒绝呼叫为止。
接收到个呼	按照铃音类型子菜单设置。	直到您应答或拒绝呼叫为止。
个呼主叫方的振铃		直到呼叫被应答为止。
单工个呼 先占式优先权呼叫 (PPC) 振铃		每隔 4 秒钟重复一次，直到呼叫被应答或拒绝。
双工私密 PPC 振铃		每隔 4 秒钟重复一次，直到呼叫被应答或拒绝。
有限服务		当进入有限的服务状态时发出一声提示音。

说明	类型	重复次数
接收到新邮件		一次
新组呼		一次
<b>概述</b>		
音量设置（耳机、键盘、扬声器）		连续不断
音量设置（振铃）		当设置音量时。
禁止传输 (TXI)		一次
两次按下 PTT - 单声提示音		一次
两次按下 PTT - 双声提示音		一次
两次按下 PTT - 三声提示音		一次

## 定期提示

如果有未接电话和未读短信，即会进行定期提示。每次提示时，都将播放未读短信音，并显示橙色指示灯。

此功能可由用户禁用 / 启用。通过按 **MENU** 并选择**设置 > 声音 > 定期提示**，还可以设置提示之间的时间间隔。



## 按键、旋钮和按钮概述

### 开关 / 结束 / 初始键


- 按住可以打开 / 关闭 MTP850。
- 按下可以结束通话。
- 按一下可以返回之前的显示屏幕。



## 软按键

按  或  选择向左或向右软按键的选项。

## 菜单键

菜单键有两个功能。按  进入：

- **菜单**（不在菜单中时）。MTP850 菜单允许您控制 MTP850 设置。
- **上下文相关菜单**（当  图标亮起并且不在待机屏幕时）以查看当前菜单的选项列表。

## 旋转旋钮

运营商可以将旋钮设定为以下用法之一：

1. **双控制** – 旋钮可以用于控制音量以及在列表中滚动。按旋钮在音量和列表控制之间切换（默认设定）。
2. **列表控制** – 旋钮用于滚动列表（例如通话组列表）或菜单项。此时音量控制是通过侧键进行的。
3. **音量控制** – 仅将旋钮用于控制音量；顺时针转动可以增大音量。按住旋钮将它锁定，再次按住可以解锁。关机也会将锁定的旋钮解锁。

## 紧急键

按住此键进入紧急模式。

如果 MTP850 已关机，按住此键可以在紧急模式或标准模式下将其打开（按照设定）。

## 功能键

**注意** 有关为每个侧键、数字键、\* 键或 # 键设定功能的信息，请咨询您的运营商。

**注意** 通过按侧键、数字键、\* 键或 # 键来激活单键功能所需的默认时间为 1 秒。此时间可以设置，但只能由您的运营商设置。

### 侧键

旋钮和侧键的编程是成对的：

旋钮编程	侧键编程
双控制	设定为单键功能
列表控制	○：提高音量 ●：降低音量
音量控制	设定为单键功能

当旋钮设定为音量控制或双控制时，侧键支持单键功能，可以让您选择或激活常用的功能，您只要按下并按住一个按键即可激活单键功能。默认情况下，上方的侧键设置为“背景灯开/关”，下方的侧键设置为“屏幕保护开”。请咨询您的运营商。


### 数字键、\* 键和 # 键

MTP850 支持单键功能，只需按住设定的按键，即可选择或激活常用的功能。

### 单键个呼

如果运营商为 MTP850 设置了单键个呼，此对讲机便支持这一功能。用户只需按下设定的单键个呼键，即可拨打上次组呼的发起者号码。

## 扬声器控制键

按  可激活耳机（小声）、PHF（小声）或扬声器（大声），具体取决于菜单设置。

呼叫类型	菜单设置	按键用法
单工呼叫 (组呼*/个呼)	菜单 > 设置 > 音频 > 音频切换 > 扬声器控制	打开 / 关闭组呼和个呼的 扬声器
	菜单 > 设置 > 音频 > 音频切换 > 始终大声	打开 / 关闭个呼的扬声器
双工呼叫 (个呼 / 电话 / PABX)	—	控制当前呼叫的扬声器 / 耳机

\* 在紧急组呼中，无论扬声器如何设置，声音都从扬声器中发出。

## 音量调节模式

运营商可以启用音量调节模式功能。有关**单独**模式的所有设置均可进行调节，即使用户切换回**普通**模式，上述设置也会予以保留。

在**普通**模式下，用户可同时调节所有**音量**。

若要更改音量设置，请按 **MENU** > **设置** > **设置音量**。

## 音频配置文件

音频配置文件是一个用来调整对讲机音频参数，以满足其当前操作环境的文件。

要选择音频配置文件，请按 **MENU**，然后选择**设置** > **音频** > **音频配置文件**。滚动并选择您所需的模板。

## 啸叫抑制

啸叫抑制是一种消除啸叫声影响的操作模式。



要启用或禁用啸叫抑制，请按 **MENU**，然后选择**设置** > **音频** > **啸叫抑制**。接着通过滚动选择“启用”或“禁用”。

## 激光二极管指示灯

激光二极管指示灯能说明您的 MTP850 所处的工作状态。

指示灯	状态
绿灯保持亮着	正在使用
闪烁的绿灯	在系统覆盖范围内
红灯保持亮着	不在系统覆盖范围内
闪烁的红灯	对讲机在开机时正在连接网络 / 进入 DMO
黄灯保持亮着	禁止传输 (TXI) 正在使用 / 在 DMO 中信道忙
先保持亮着， 然后闪烁为橙色	有呼叫正在呼入
没有指示灯显示	关机状态

## 进入菜单项

1. 按 。
2. 要滚动到所需的项目，按**选择**或  选择。

## 返回上一层菜单

按**返回**或 。

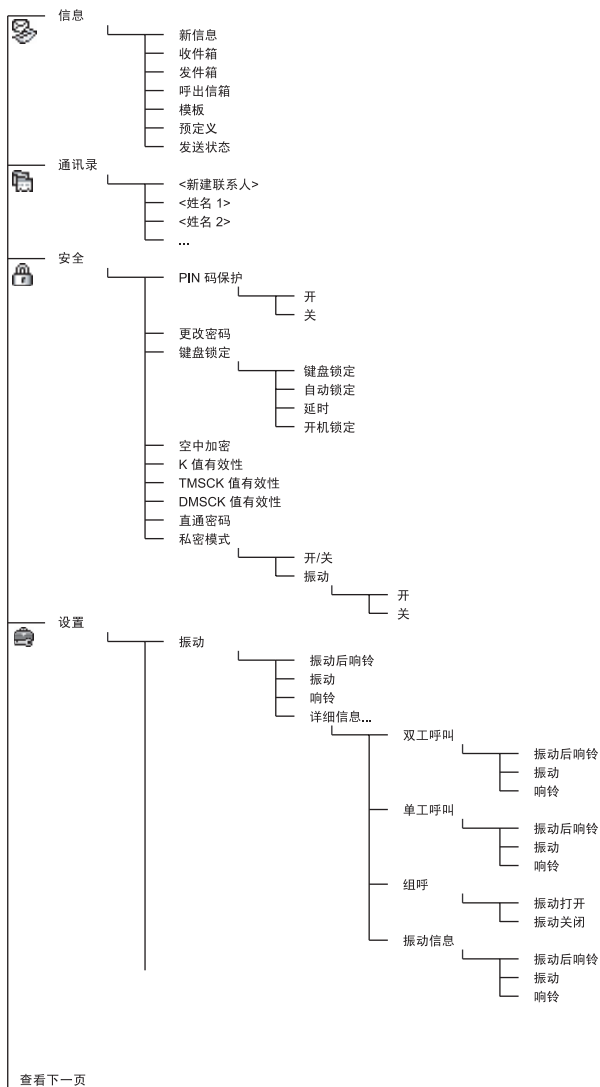
## 退出菜单项

按 。

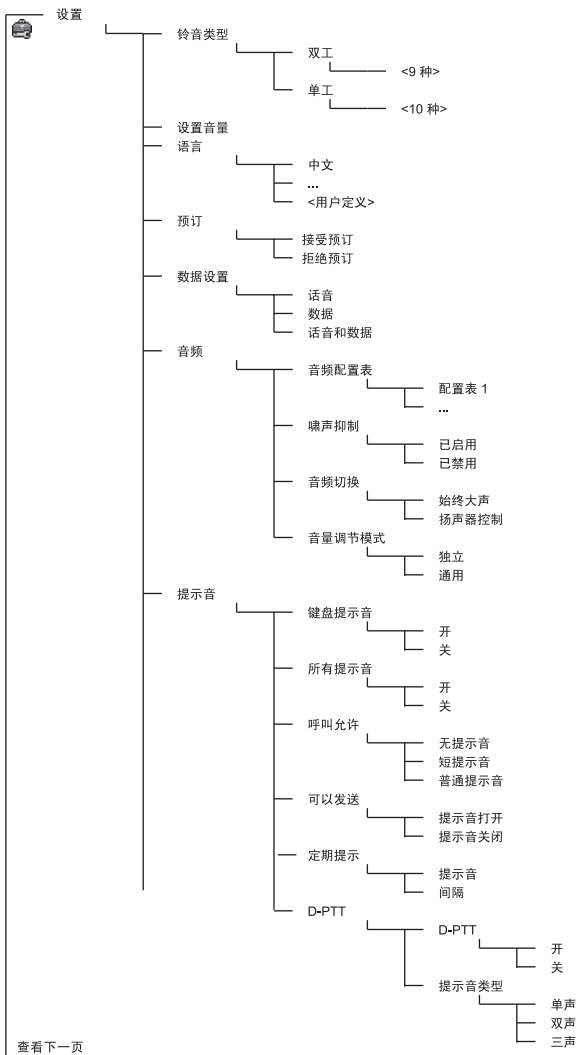
**注意**

如果经过一段时间后未检测到任何活动，您的 MTP850 将会退出。

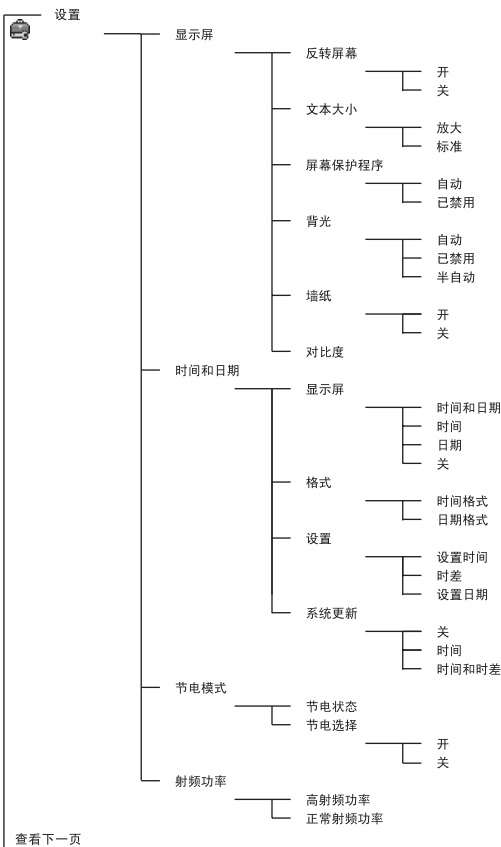
# 菜单项列表

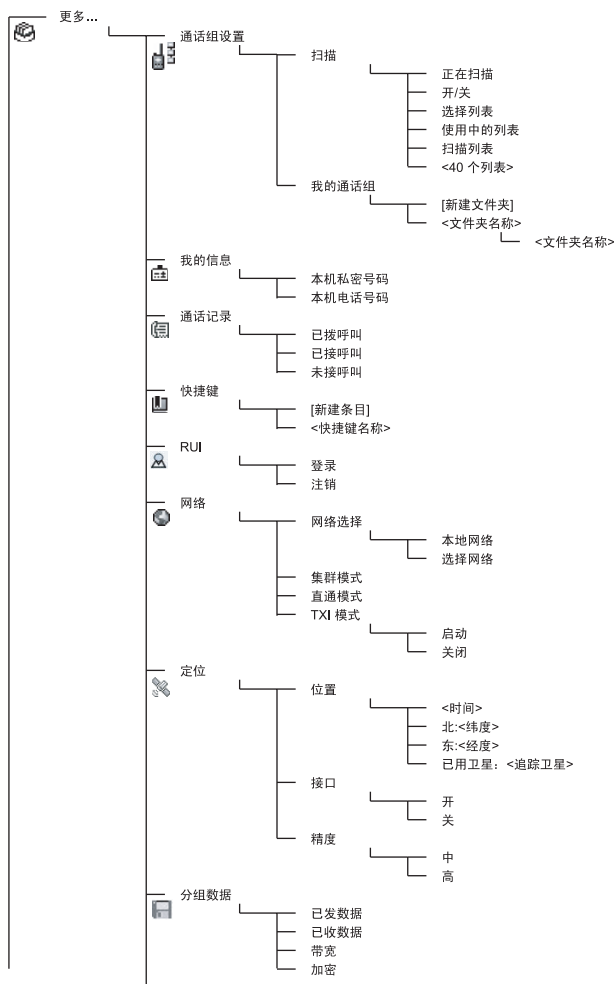


查看下一页



查看下一页





**注意** 这是标准的菜单布局。您的运营商可能会启用 / 停用某些菜单项，或更改某些菜单项的名称。



## 新建菜单快捷键

使用快捷键进入常用的菜单项。

### 新建菜单快捷键

浏览到菜单项并在此项目高亮时按住 **MENU**。

### 菜单快捷键列表

要查找设定的快捷键，请按 **MENU**，然后选择**更多 ...> 快捷键 > < 快捷键名称>**。

### 菜单快捷方式的使用






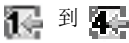
在初始屏幕中，按 **MENU** 和指定给该快捷键的数字键。

## 显示屏

在使用 MTP850 时，在显示屏上出现的图标表示以下情况。

## 状态图标

当您的对讲机在进行某些特定活动时，或者启动了某些特定功能，屏幕中会显示状态图标。

状态图标	说明
<b>集群模式操作 (TMO)</b>	
	<b>信号强度</b> 允许您检查信号的强度。信号条越多表示信号越强。
	<b>不在服务区</b>
	<b>扫描</b> 表示 MTP850 中的扫描功能已被启动。
	<b>连接了数据终端</b> 当 MTP850 已连接好并准备传送数据时显示。
	<b>数据发送 / 接收</b> 当 MTP850 正在发送数据到外设（膝上型或台式电脑）、或者从这些设备接收数据时显示此图标。
	<b>无数字</b> – 备用数据会话。 <b>数字 1、2、3 或 4</b> – 表示具有 25%、50%、75% 或 100% 带宽的活动数据会话。

状态图标	说明
<b>直通模式操作 (DMO)</b>	
	<b>信号强度</b> 表示一个呼入的直通模式组呼。
	<b>直通模式</b> 当 MTP850 进入直通模式时显示此图标。
	<b>DMO 网关</b> 表示已选择网关。本图标有三个状态： <b>保持亮着</b> - 当对讲机 MTP850 与网关同步时。 <b>闪烁</b> - 当 MTP850 未同步，或者在连接时。 <b>无图标</b> - 在进行对讲机到对讲机呼叫和转发呼叫时。
	<b>DMO 转发器</b> 当在 DMO 中选择了转发器选项时显示。本图标有三个状态： <b>保持亮着</b> - 当对讲机检测到转发器时（例如接收一个存在的有效信号时）。 <b>闪烁</b> - 当对讲机未检测到转发器，或者在连接时。 <b>无图标</b> - 在进行用户机到用户机和网关呼叫时。
<b>一般图标</b>	
	<b>所有提示音关闭 / 双工和单工振铃关闭</b> 表示 MTP850 中的所有提示音均已关闭，或者单工振铃音量和双工振铃音量都已设置为“0”。
	<b>单工振铃关闭</b> 表示设置的单工振铃音量为“0”，而设置的双工振铃音量大于“0”。
	<b>双工振铃关闭</b> 表示设置的双工振铃音量为“0”，而设置的单工振铃音量大于“0”。
	<b>振动</b> 表示 MTP850 会振动以提示您有一个呼叫正在呼入。
	<b>先振动后振铃</b> 表示 MTP850 会以先振动后振铃的形式提示您有呼叫正在呼入。
	<b>扬声器关闭（小声模式）</b> 表示语音将通过听筒发出来。（请参阅扬声器控制键的详细说明。）
	<b>小声模式</b> 表示音频模式变为低。

状态图标	说明
	<b>大声模式</b> 表示音频模式变为高。
	<b>耳机已连接</b> 表示耳机已经连接。
	<b>RUI 伪登录</b> 表示用户进行了伪登录。
	<b>使用分组数据的伪登录</b> 表示用户同时进行了伪登录和使用了分组数据。
	<b>电池电量强度</b> 显示您的电池中的电量。满的图标表示电池已充满。
	<b>射频功率</b> 表示已启用“高射频功率”模式，并显示信号强度。格数越多，表示信号越强。
	<b>紧急呼叫</b> 当 MTP850 工作于紧急模式时显示此图标。
	<b>列表滚动</b> 显示此图标说明旋钮用于滚动列表，只要选择了此用法这个图标就会出现。
	<b>新短消息到达</b> 表示有一条新的短消息刚到达。
	<b>收件箱中有新短消息</b> 说明在您的收件箱中有未读的短消息。


## 菜单图标

以下图标可方便您轻松找到菜单项：

菜单图标	说明
	<b>主菜单项 / 上下文相关菜单</b> 如果激活了主菜单项 / 上下文相关菜单，则会出现在  上方。
	<b>短消息</b> <ul style="list-style-type: none"><li>• 发送状态信息。</li><li>• 发送文本信息（任何文本或用户定义文本或预先定义模板的文本）。</li><li>• 在收件箱中接收短消息。</li></ul>
	<b>地址簿</b> 添加、查找、编辑或删除号码簿中的条目。
	<b>保密</b> 用于打开 / 关闭和验证保密功能，以及更改密码。
	<b>设置</b> 用于定制您的 MTP850。
	<b>更多 ...</b> 包括更多可定制的菜单项。
	<b>滚动栏</b> 用于浏览占用一个以上屏幕的项目。如果所有项目显示于一个屏幕，则滚动栏为空。

## 收件箱图标

以下图标表示收件箱中的短消息状态：

收件箱图标	说明
	<b>未读（新）短消息</b> 表示您还没有阅读该短消息。
	<b>已读（旧）短消息</b> 表示您已经阅读该短消息。
	<b>短消息视图中的发送者信息</b> 表示发送者信息（姓名或号码）。
	<b>短消息视图中的时间和日期标记</b> 表示短消息到达的时间和日期。
	<b>接收到发送状态</b> 表示存储和转发短消息的发送状态。




## 联系人图标

在地址簿显示屏上，联系号码旁边可能会出现以下图标，图标表示储存的号码类型。

联系人图标	说明
	私密 ID 号码
	移动电话号码
	住宅电话号码
	单位电话号码
	PABX 号码
	其他电话号码
	选择箭头 表示该联系人储存了多个号码。

## 发件箱图标


在发件箱子菜单中，这三个图标表示发送“存储 & 转发”短消息的进程。有关详情请联系您的运营商。

发件箱图标	说明
	正在发送
	发送完成
	传送失败

## 文本输入图标

### 选择文本输入模式

文本输入模式可以方便您输入姓名、号码和消息。


在文本输入屏幕中，选择  > **输入模式**，然后从以下模式中选择一种：

- **首选** – 用于输入字母数字字符
- **数字** – 只用于输入数字
- **符号** – 只用于输入符号
- **次选** – 用于输入字母数字字符（此模式为可选的，您需要添加到列表中。）

在文本输入屏幕中，重复按  还可以在“首选”、“数字”、“符号”或“次选”模式下进行切换（如果已设置）。

### 将辅助模式添加到文本输入模式列表

有时在使用某种语言时要切换到另一种语言，辅助模式就非常方便。

要在列表中显示该模式，您必须先在  > **输入设置** 中设置该模式。

**无**是工厂的默认设置，表示未选择辅助输入模式。

### 选择文本输入方法和语言

文本输入方法有七种：

- **TAP** – 按字母数字键一次或多次，输入字母、数字和符号。
- **iTAP** – 对讲机会根据您按的字母数字键预测每个字词。
- **繁体拼音** – 用于中文文本的拼音模式输入。按下相应的按键输入拼音字符。系统将汇编有可能组成的拼音。同时列出每个拼音相应的汉字。
- **繁体笔画** – 用于中文文本的笔划模式输入。按下相应的按键输入部首次序。系统将汇编出所输入笔划的相应汉字。
- **简体拼音** – 用于中文文本的拼音模式输入。按下相应的按键输入拼音字符。系统将汇编有可能组成的拼音。同时列出每个拼音相应的汉字。
- **简体笔画** – 用于中文文本的笔划模式输入。按下相应的按键输入部首次序。系统将汇编出所输入笔划的相应汉字。
- **BoPoMoFo (注音)** – 中文文字的拼音字母。输入顺序类似于拼音文本的输入，但产生一组不同的字母供选择。

您可以输入纯英语字母，纯中文字母，或中英混合字母。

在对讲机设置的语言中可以使用这些方法。

在文本输入屏幕选择  > **输入设置**，然后更改为其中一种方法及其相关的语言（例如：TAP English）。

## 字母大写

按 **(O+⇧)**。

## 图标

在文本输入屏幕中，图标让您了解正在使用的文本输入模式和方法。字符计数器图标表示已输入的字符数。











主要图标	辅助图标	说明
abc 1	abc 2	TAP – 没有大写字母
Abc 1↑	Abc 2↑	TAP – 只大写首字母
ABC 1↑	ABC 2↑	TAP – 全部大写
abc 1	abc 1	iTAP – 没有大写字母
Abc 1	Abc 1	iTAP – 只大写首字母
ABC 1	ABC 1	iTAP – 全部大写

数字图标	说明
123	输入数字。



符号图标	说明
@	输入标点和符号。

中文文本图标	说明
à	您正处于拼音输入模式。
ㄣ	您正处于笔划输入模式。
ㄣ	您正处于 BoPoMoFo（注音）输入模式。

## 字母数字模式 (TAP/iTAP) 中的按键和字符列表

键	字母数字模式 (TAP/iTAP)
	按此键可以在单切换、大写锁定和小写中循环。
	.,?!01@' "-( )/:_ ;+ & % * * = < > € £ \$ ¥ ¢ □ [] {} \ ~ ^ ` ¡ ¢ § #
	ABC2 abc2
	DEF3 def3
	GHI4 ghi4
	JKL5 jkl5
	MNO6 mno6
	PQRS7 pqrs7
	TUV8 tuv8
	WXYZ9 wxyz9

## 数字模式中的按键和字符列表

键	数字模式
 到 	<ul style="list-style-type: none"> <li>按这些键就可以在插入点输入数字。</li> <li>按住任意数字键进入 TAP 字母数字模式。</li> <li>要退出 TAP 字母数字模式，请按住任意数字键。</li> </ul>

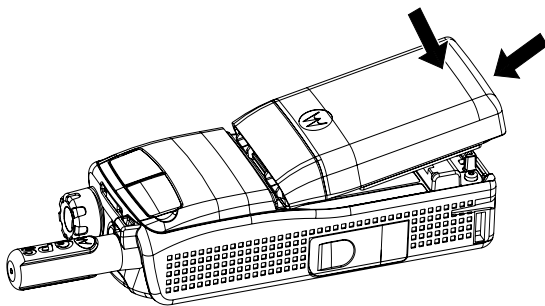


# 开始

## 电池

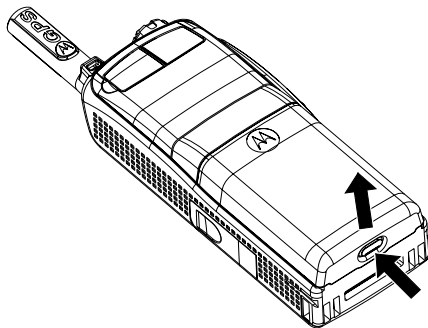
### 安装电池

1. 将电池从透明塑料保护盒中取出。
2. 将电池的顶端插入图中所示的电池盒。
3. 小心地将电池的底部向下按，直到听到一声“咔哒”声。



### 更换电池

1. 要取下电池，请推起底部的锁片。
2. 将电池的底部提出。
3. 更换电池。



## 电池充电

经摩托罗拉核准的充电器可以提供最佳的性能。使用其他充电器可能无法将摩托罗拉锂离子电池充满，也可能会缩短电池使用时间。

充电时过程中 MTP850 可以为**开**，也可以为**关**。

1. 将充电器的接头插入 MTP850 底部的插孔。选择所需的插头转换器（英式或欧式）并连接到充电器。然后将充电器插入适合的主电源插座。
2. 连接充电器时，只有 MTP850 处于**开机**状态，MTP850 才会显示**充电器已连接**消息。如果 MTP850 处于**关机**状态，屏幕上会显示一个电池充电图标。

电池电量图标显示充电的状态（如下所示）。



空



满



空



满

电池电量

电池充电进度

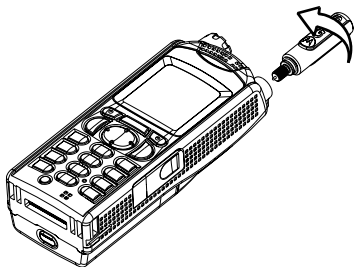
## 电池电量信息

信息	说明
绿色图标	满（50% - 100% 电量）
黄色图标	中（20% - 50% 电量）
红色图标	低（10% - 20% 电量）
空图标	极低（5% - 10% 电量）
<b>电量低</b> 信息	低于 5% 的电池容量。


## 安装天线


**注意** 安装或拆下天线之前请关闭 MTP850。

将天线底部插入 MTP850 顶部的螺丝座中。顺时针旋转天线直到密合为止。**切勿太过用力。**



## 打开 / 关闭（开关 / 结束 / 初始键）


若要**开机**，按住 。您的 MTP850 将进行自检和登记注册例行程序。在成功的登记注册之后，MTP850 将进入工作状态。

若要**关机**，请按住 。您将听到一声蜂鸣音，且屏幕中会显示**关机**消息。

## 开机（紧急键）

按住紧急键可以**打开**对讲机。MTP850 将在紧急模式或标准模式（按照设定）**下开机**。

## 禁止传输 (TXI) 情况下开机

禁止传输功能允许您在进入射频 (RF) 敏感区域前，关闭传输功能。要激活此功能，请按 ，然后选择**更多 ... > 网络 > TXI 模式 > 激活**。



**警告**

如果禁止传输被启动时按紧急键，则 MTP850 会立刻开始传输。进入紧急模式时，MTP850 一定**不能**处于射频敏感地区。

开机时 TXI 模式停留在启动状态下。您会被询问是否要让 TXI 停留在打开模式。



警告

在关闭禁止传输前，确保您已离开射频敏感区域。

按是软按键关闭 TXI 模式。如果 MTP850 之前被使用在集群模式，它将入网登记。如果 MTP850 之前使用在直通模式下，它将会保持在直通模式下。

在集群模式按否，MTP850 关闭；在 DMO 模式按否您将停留在 DMO 模式下，且 TXI 被选中。

## 解除 MTP850 锁定

您的 MTP850 在开机时有可能是锁住的。

要在开机后解锁 MTP850，根据提示输入密码。MTP850 进入默认的初始屏幕。

解锁编码最初设置为“0000”。在您收到您的对讲机之前，您的运营商可能会更改此号码。

## 锁定按键 / 解除按键锁定

为了避免偶然碰到按键 / 按钮：

按   可锁定键盘。再按一下   可解锁。运营商可选择在锁定键盘和 PTT 时发出通知。

### 键盘锁定通知

键盘锁定时，将显示下列说明之一：

- 无 – 不显示通知。
- 仅通知 – 显示**键盘已锁定**。

通知和说明 – 显示**键盘已锁定，按“菜单”和\*可锁定/解锁**。

### 自动锁键盘

此功能可在键盘闲置时间超过预定义时间后自动将键盘锁定。要打开 / 关闭此功能或设置延时，请转到**菜单 > 安全 > 键盘锁定设置**。

### 开机锁键盘

用户可设置为在对讲机开机时锁定键盘。要打开 / 关闭此功能，请转到**菜单 > 安全 > 键盘锁定 > 开机锁定**。

**注意**


在有电话呼入时，即使带有 **PTT** 的键盘已锁定，也可以使用 **PTT**、旋钮、、 和 。


**注意**

紧急键是没有锁定的。一旦按了紧急键，键盘将被解锁。

## 对讲机用户识别 (RUI)

您的 MTP850 需要确认 RUI 以提供完整服务。开机后，将提示您输入用户 ID 和用户 PIN。

要**登录**，请按  > **更多 ...** > **RUI** > **登录**

要**注销**，请按  > **更多 ...** > **RUI** > **注销**

如果登录未成功，则表示运营商设置了对讲机的访问权限。

**注意**

禁用 **RUI** 功能的对讲机可向用户提供完整的服务，而不会显示登录提示。

**注意**

显示屏会一直指示用户是已登录（图标呈蓝色）还是已注销（图标呈灰色）。

# 选择 TMO 或 DMO 操作

## 进入 TMO 或 DMO 模式

通过以下方式之一进入 TMO 或 DMO:

- 如果 MTP850 处于 TMO 模式，请在初始屏幕中按**选项**，然后选择**直通模式**。
- 如果 MTP850 处于 DMO 模式，请在初始屏幕中按选项，然后选择**集群模式**。
- 按 **MENU**，然后选择**更多 ... > 网络 > 集群模式**，如果 MTP850 处于 DMO。
- 按 **MENU**，然后选择**更多 ... > 网络 > 集群模式**，如果 MTP850 处于 TMO。
- 按 TMO/DMO 单键按钮（如果运营商已编程好）。

当 MTP850 在集群模式下工作时，您可以发起或接收以下类型的呼叫：

- 组呼
- 个呼
- 电话呼叫
- PABX 呼叫 – 本地（交换局）分机号码呼叫
- 紧急呼叫
- 紧急个呼

当 MTP850 在直通模式 (DMO) 下工作时，您可以发起和接收组呼和个呼。其中包括紧急组呼。

如果在数秒中内没有任何活动，MTP850 将返回初始屏幕。

**注意** 您的对讲机会在有呼叫呼入时提示您。选择“**振动**”菜单和“**提示音**”菜单项中的提示设置。

## 组呼

组呼是您和同一通话组中其他人员之间的一种通信方式。通话组是预先定义的一组用户，用户可以加入和 / 或请求一个组呼。


通话组至多可整理在三个文件夹中。每个文件夹可包含多个文件夹和通话组。

### 首选文件夹

您可以将首选的通话组整理到三个文件夹中。

### 选择“我的通话组”文件夹

**注意** 第一个首选文件夹的默认名称为“我的通话组”。

在初始屏幕中，按  可以快速访问这些文件夹。

### 添加通话组 (TMO/DMO)

1. 按 **MENU**，然后选择**更多 ... > 通话组设置 > 我的通话组 > < 文件夹名 > > [ 新建通话组 ]**。
2. 通过字母搜索功能（“**TMO/DMO abc 排序**”）选择通话组，输入通话组名称的 12 个字符；或者通过文件夹搜索功能（“**TMO/DMO 文件夹排序**”）选择通话组。选择文件夹，然后选择通话组。该通话组被添加到“我的通话组”文件夹。

### 删除通话组 (TMO/DMO)

1. 按 **MENU**，然后选择**更多 ...> 通话组设置 > 我的通话组 > < 文件夹名 >**。
2. 高亮显示要删除的通话组名称，然后选择**删除**。

**注意** 若要删除所有通话组，请按 **MENU**，然后选择**全部删除**。此选项仅在运营商启用后才能使用。

3. 按**是**以确定。

## 重命名首选文件夹

1. 按 **[MENU]**，然后选择**更多 ... > 通话组设置 > 我的通话组**。
2. 高亮显示所需的组文件夹名称，然后按 **[MENU]**。
3. 选择**重命名文件夹**。
4. 编辑好文件夹名称后，按**确定**以确认。

## 删除首选文件夹

1. 按 **[MENU]**，然后选择**更多 ... > 通话组设置 > 我的通话组**。
2. 高亮显示所需的组文件夹名称，然后按 **[MENU]**。
3. 选择**删除文件夹**。
4. 按**是**以确定。

### 注意

您不能删除最后一个首选文件夹。

## 选择通话组

### 注意

当您浏览首选文件夹并选择 **DMO** 通话组时，对讲机将从 **TMO** 切换到 **DMO**（反之亦然）。

## 使用旋转旋钮

（如果已设定）

从初始屏幕短按旋转旋钮并旋转，直到出现请求的通话组。

通话组被选择：

- 经过超时时限后，或
- 在按**选择**时（如果运营商已配置）。

## 使用浏览键

从初始屏幕左右滚动，直到出现请求的通话组。然后按**选择**确认。

## 使用字母搜索功能

从初始屏幕按**选项**。通过字母搜索功能（“**TG abc 列表**”）选择通话组。输入通话组名称的 12 个字符，选择通话组。

### 注意

即使该通话组位于多个文件夹中，它在字母搜索结果中也只显示一次。



## 使用文件夹搜索

从初始屏幕按**选项**。通过文件夹搜索（“**TG 文件夹列表**”）选择通话组。选择文件夹，然后选择通话组。

## 使用数字键盘 – 快速拨号

从初始屏幕中，您可以通过使用键盘输入某个通话组的快速拨号号码来拨打该通话组。此功能又称作通话组快速拨号。快速拨号预先设置在对讲机上。

您可以查看通话组的快速拨号属性（如果存在）。

### 查看快速拨号号码

1. 从初始屏幕按**选项**。
2. 依次选择 **TG 文件夹列表**和相应的文件夹名称。
3. 按 **MENU**。
4. 选择**查看**以查看通话组快速拨号号码。

在此例子中“82”为快速拨号号码。按**返回**返回到加入通话组屏幕。

### 使用快速拨号号码

1. 输入一个数字（例如：“82”）。
2. 按 **#**。
3. 按**加入**加入新的通话组或按 **PTT** 加入并呼叫。

#### 注意

*TMO 和 DMO 通话组的快速拨号号码可以相同。例如，如果您处在 TMO 模式下，则该模式下的所有快速拨号号码均有效。*

## 选择文件夹

从初始屏幕按**选项**。选择**文件夹**，然后选择需要的文件夹。显示屏显示了此文件夹中最近选择的通话组。


## TMO 组呼

在 TMO 模式下通过运营商的基础设施来使用 MTP850。

### 发起 TMO 组呼

1. 从初始屏幕（如果这是需要的通话组）按住 **PTT**。
2. 等听到通话允许音后再对麦克风讲话。释放 **PTT** 接听。

当您发起一个呼叫时，选定通话组中已经开机的所有组员将会收到您的组呼。

**注意** 如果您正在进行组呼，但希望发起一个新的呼叫，按  忽略当前呼叫，接着开始新的呼叫。

**注意** 当您超出了所选定的通话组正常覆盖范围，则会显示**没有通话组**消息。然后您必须选择在您的工作范围内有效的新的通话组。

### 接收 TMO 组呼

除非 MTP850 在通话过程中，否则它将接收组呼。要应答该呼叫，请按住 **PTT**。

您的 MTP850 将显示通话组名称和呼叫方的个人号码或别名（如果以前存储在您的号码簿中）。

### 接收 TMO 广播呼叫

广播呼叫（又称作调度员呼叫）是由主控台操作员（或调度员）发出给所有用户的高优先级组呼。MTP850 是配置来监听广播呼叫的，但是用户不能对讲。

如果该组呼的优先级是相等（或较低），广播呼叫会先占据一个正在进行中的组呼。

### PTT 双按功能

如果运营商启用了此功能，则当对讲机处于待机模式或组呼模式下时，按两次 PTT 可发出提示音。播放完 D-PTT 提示音后，用户可以再次按住 PTT 以获得通话许可。

要更改提示音，请按 **MENU** > **设置** > **提示音** > **D-PTT** > **提示音类型**，然后选择**单声**、**双声**或**三声**。请转到第 8 页上的“音频信号音”查看有关提示音的说明。

要打开 / 关闭此功能，请按 **MENU** > **设置** > **提示音** > **D-PTT 提示音** > **D-PTT 模式**。

## DMO 组呼

在 DMO（直通模式）下，MTP850 可以在没有系统覆盖的情况下使用。

DMO 使得您与其他同样处于 DMO 模式的对讲机通话，这些对讲机与您的 MTP850 应当属于同一通话组并使用相同的频率。

**注意** 在 DMO 模式下，只能进行以下三种呼叫：组呼、紧急组呼、个呼和私密单工呼叫。

当您发起一个呼叫时，选定通话组中已经开机的组员将会收到您的组呼。

如果 MTP850 的网关选项被激活，在 DMO 模式下 MTP850 便可与集群系统通信（反之亦然）。

### 发起 DMO 组呼

1. 按**选项**并选择**直通模式**，以进入直通模式。
2. 确保您已经选择了需要的通话组，然后按住 **PTT**。
3. 等听到通话允许音后再对麦克风讲话。释放 **PTT** 接听。

### 接收 DMO 组呼

只有在 MTP850 处于 DMO 模式下时，才能接收 DMO 组呼。

除非 MTP850 在通话过程中，否则它将接收组呼。要应答该呼叫，请按住 **PTT**。


您的 MTP850 将显示通话组名称和呼叫方的个人号码或别名（如果以前存储在您的号码簿中）。

### 退出 DMO 模式





要退出 DMO，按**选项**并选择**集群模式**。

# 私密、电话及专用自动交换分机呼叫

## 注意


如果您正在进行组呼，但希望发起一个新的呼叫，请按  忽略当前呼叫，接着拨打号码。

## 新增联系人





1. 在初始屏幕上按**地址簿**。选择 [新建联系人]。
2. 输入姓名。按**确定**以确认您的输入。
3. 按  /  并选择储存的号码类型（比如私密）。  
或
  - 按**修改**，屏幕显示六个选项。
  - 按  /  可选择已存储号码的类型。
  - 按**选择**，屏幕返回联系人详细信息画面。
4. 输入号码 (#)，然后按**确定**。
5. 您可以在同一个联系人姓名下为其保存多个号码（私密 ID、移动电话、住宅电话、单位电话、PABX 等），所以请继续输入其他类型和号码。
6. 完成后按**完成**。按**返回**返回初始屏幕。

## 如何拨号

### 拨打一个号码




1. 从初始屏幕中拨打号码。
2. 反复按**呼叫类型**选择呼叫类型（私密呼叫、电话呼叫或 PABX 呼叫）。
3. 根据呼叫类型按 **PTT** 或 。

## 通过地址簿拨打

您还可以使用号码簿选择您预先储存的号码。按**联系人**，然后通过滚动（ 或 ）搜索存储的号码，也可以输入联系人名称中的部分字符（最多 12 个）来进行字母搜索。如果联系人有多个号码，使用  /  选择号码。

## 快速拨号

快速拨号使您可以最少只拨三位数字而不必拨全部的号码。快速拨号号码是号码簿中一个条目的位置。



1. 输入预先设定的快速拨号号码（例如：5），然后按 。
2. 按  发起呼叫。要挂机，请按 。

## 个呼

个呼模式呼叫，亦被称为点对点或个人呼叫，是一个发生在两个个人用户之间的呼叫通信。其他对讲机不能听到他们的对话。此呼叫可以是：

- TMO 模式下的双工呼叫（如果系统允许），或者
- TMO 或 DMO 模式下的标准单工呼叫。



## 发起个呼

1. 从初始屏幕中拨打号码。
2. 如果个呼不是所显示的第一个呼叫类型，按**呼叫类型**选择个呼类型。
3. 对于**单工**呼叫，请按下再释放 **PTT**。您将听见振铃音。等待被叫方应答您的呼叫。  
按住 **PTT**。等待通话允许音（如已配置）然后讲话，释放 **PTT** 接听。  
对于**双工**呼叫，请按下再释放 。您将听见振铃音。等待被叫方应答您的呼叫。
4. 要结束呼叫时，请按 。如果被叫方结束通话，屏幕显示**呼叫结束**消息。

### 注意

当激活禁止传输功能时，会指示有个呼呼入，但不能应答此呼入。

## 接收个呼模式呼叫

1. MTP850 切换到个呼模式的呼入。显示屏上将显示主叫方的识别码。
2. 若要应答呼入的 **单工** 呼叫，请按 **PTT**。若要应答呼入的 **双工** 呼叫（由 **扬声器 / 耳机** 软按键指示），请按  或绿色的接收键。
3. 要结束呼叫时，请按 .

### 注意

您的对讲机会在有呼叫呼入时提示您。选择振动菜单和提示音菜单项中的提示设置。

## 电话及专用自动交换分机呼叫

**电话呼叫** 可用于呼叫固定电话号码、移动电话号码或使用 ISDN 号码的其他对讲机。

### 注意

通过 **MS-ISDN** 功能，您可以在对讲机与使用 **ISDN** 号码的电话之间收发呼叫。

**专用自动交换分机 (PABX) 呼叫** 允许您呼叫本地的（交换局）分机号码。此类呼叫需要由您的运营商启动。

在本手册中我们用“电话号码”来指代这些电话号码。

### 注意

当激活禁止传输功能时，会指示有电话或 **PABX** 呼叫呼入，但不能应答此呼入。

## 发起电话或 PABX 呼叫

1. 从初始屏幕中拨打号码。
2. 如果电话呼叫或 **PABX** 呼叫不是第一个出现的呼叫类型，反复按 **呼叫类型** 选择电话呼叫或 **PABX** 呼叫类型。
3. 接下来按发出和接收双工个呼的步骤操作。如果用户按下 **PTT** 按钮，则会发起单工电话呼叫。

## 紧急模式

您可以在**集群模式**或**直通模式**下发送和接收**紧急组呼**。如果您的对讲机配置为通过网关进行操作，则可以通过网关发起紧急呼叫。

您可以将紧急组呼发到和接收自以下通话组：

- 选定的通话组（TMO 和 DMO）（战术紧急模式），或
- 预定义的通话组（处于非战术紧急模式时）。

要了解选择的模式，请联系您的运营商。

您的运营商会为您配置紧急报警和紧急麦克风功能。

紧急呼叫会向系统取得紧急优先权。

### 进入或退出紧急模式

要进入紧急模式，**按住** MTP850 顶部的紧急键。

#### 注意

*您按紧急键所需的默认设置时间是 0.5 秒。该时段可以由您的运营商为您设置。*

#### 注意

*按紧急键启动一个或多个服务。有关详情请联系运营商。*

要退出紧急模式，**按住退出**。对讲机将切换到初始屏幕。

### 发送一个紧急警报

您的 MTP850 将会发送紧急警报给调度员（如果运营商已设置）：

- 在进入紧急模式时将自动发送。
- 在 MTP850 处于紧急模式时，如果再次按紧急键。

发送告警后，屏幕将显示以下两种提示信息之一：

- **已发送警报**
- **警报发送失败**

在这两种情况下，显示屏在数秒钟之内就会回到紧急模式的主屏幕。

由于 DMO 模式下没有提交确认，发送警报时仅显示**已发送警报**确认信息。



#### 警告

*如果在激活禁止传输功能时按紧急键，则 MTP850 会立刻开始传输。进入紧急模式时，MTP850 一定**不能**处于射频敏感地区。*

#### 注意

*紧急告警是一种特殊的状态短消息，它发送给监听选定通话组的调度员。它可用于调度系统中，以突出紧急呼叫。*

#### 注意

*当用户处在“单站集群服务”区域内时，有些系统是不支持紧急告警功能的。*

## 紧急麦克风功能

如果运营商将紧急麦克风功能预先设定在您的 MTP850 中，您不需要按住 **PTT** 也可以发出紧急组呼并与调度员（以及通话组的组员）通话。

麦克风保持打开的时间是由运营商设定的。麦克风将一直打开，直到：

- 超过紧急麦克风时间
- 您在紧急麦克风时间内按 **PTT**
- 您按**结束**键

在紧急麦克风时间结束后，屏幕中显示**紧急麦克结束**信息，MTP850 返回到紧急模式。此时，紧急麦克风功能关闭，**PTT** 操作恢复正常。

如果需要，您可以再次按紧急键恢复紧急麦克风功能。此外，运营商也可以通过设置备用紧急麦克风功能恢复紧急麦克风，而无需用户交互。

**注意** 紧急麦克风功能可在 **DMO** 和 **TMO** 模式下使用。

## 发起紧急组呼

- 已启用紧急麦克风 – 要发起紧急组呼，请按住**紧急**键。
- 已禁用紧急麦克风 – 要发起紧急组呼，请按住**紧急**键。当屏幕改为紧急组呼时，请按住 **PTT** 等待呼叫允许音（如果已配置）并开始讲话。释放 **PTT** 接听。

## 静默紧急模式

**注意** 静默紧急模式只有在运营商启用后方可使用。

要进入静默紧急模式，请按**紧急**键。

在静默紧急模式下，不提供有声和可视的提示。所有按键音都将关闭。

要退出静默紧急模式，请同时按  和  键，也可以先按 ，并在 3 秒内按  键。

## 呼出

此功能允许用户接收呼出提示。当对讲机接收到呼出消息后，它将中断当前服务，毫不延迟地处理呼出提示。清除呼出提示后，对讲机将退出呼出模式，并返回正常模式。用户在呼出模式下只能接收紧急呼叫。有四种呼出提示：

- 正常呼出。



- 灾难应急计划 – 向通话组发送数次以提高可靠性。用户按任何按钮都只能接受呼出并进入信息阶段（未标记软按键）。
- 降级运行模式 – 它只包括话音通信。可手动清除。

**注意**

*降级运行仅在对讲机处于本站集群时可用。*

- 测试呼出 – 调度员能够测试该功能。对讲机播放提示音时，会在屏幕上显示**呼出测试**。只启用**测试成功**这一个软按键进行确认和清除测试。

**用户在其他模式下的交互**

- TXI 模式 – 用户可以阅读短消息但是不能回复。他们可以选择通过按软按键来保持 TXI 模式或者拒绝呼出消息。
- DMO 模式 – 不支持呼出。
- 紧急模式 – 忽略所有呼出提示。

**呼出服务阶段**

- 提示阶段 – 用户收到呼出消息。警报音表示显示了消息文本，在它下面提供了三个选项供用户选择：**接受**、**拒绝**或 **MENU**。如果用户接受该提示，则从此刻起其他任何服务都不能中断呼出。**MENU** 键提供了更多选项。

**注意**

*用户可通过按 PTT 或任意软按键停止提示音。*

- 信息阶段 – 用户仍处于呼出模式下，可以通过后续的文本或语音短消息收到更多有关所发生事故的详细信息。用户可使用语音组呼或呼出文本功能（允许用户向运营商发送文本短消息）查询更多信息。用户始终能够通过语音组呼来回复和发回文本或语音短消息。

**呼出信箱**

呼出信箱允许用户选择查看和存储呼出信息以备日后参考。

要查看这些短消息，请按 **MENU** > **短消息** > **呼出信箱**。

如果对讲机处于呼出模式，您只能阅读当前的呼出短消息。

# 短消息

## 发送状态信息

选择所需的通话组，然后按 **MENU** 并选择**短消息 > 发送状态**。  
选择状态信息后按 **(F)** 或 **PTT** 发送。

## 发送新的短消息

按 **MENU**，然后选择**短消息 > 新编短消息**写入您的短消息。  
选择**发送**或按 **(F)** 或 **PTT** 以选择您的收件人或输入号码。  
选择**发送**或按 **(F)** 或 **PTT**，发送新的短消息。

**注意** 信息可发送给私密码、电话号码和通话组号码。电话选项需要运营商的支持才能使用。

## 发送用户定义的短消息

按 **MENU**，然后选择**短消息 > 模板**，滚动并选择您所需的模板。  
选择**发送**或按 **(F)** 或 **PTT** 以选择您的收件人或输入号码。  
选择**发送**或按 **(F)** 或 **PTT**，发送短消息。

## 发送预定义短消息

按 **MENU**，然后选择**短消息 > 预定义**，滚动并选择您所需的模板。  
按 **MENU**，然后选择**编辑**以编辑短消息，输入所需的信息。  
选择**发送**或按 **(F)** 或 **PTT**，发送短消息。

## 处理新文本短消息

您的 MTP850 将提示您接收到短消息，并自动进入收件箱（如果对讲机目前没有活动）。

滚动到该短消息并选择**阅读**软按键。要阅读长信息，按**更多**可以阅读下一页，按**返回**可以返回上一页。

选择**回复**或按 **MENU**，然后选择**存储 / 删除 / 全部删除 / 转发**。

**注意** 对于长文本短消息，回复、储存和转发选项不可用。

## 处理未读（新）短消息

按 **MENU**，然后选择**短消息 > 收件箱**，滚动到该短消息并选择**阅读**软按键。要阅读长信息，按**更多**可以阅读下一页，按**返回**可以返回上一页。


按 **MENU**，然后选择**存储 / 删除 / 全部删除 / 回复 / 转发 / 刷新**。

**注意** 短消息最多包含 1000 个字符。


**注意** 短消息可以发送给多个用户。从 MTP850 的号码簿中找到某个组。

# 提示及技巧

## 无模式操作

在发起呼叫前不需要选择一种模式（组呼 / 个呼 / 电话）。只需要拨打一个号码，然后按**呼叫类型**软按键确定此呼叫的类型（然后按PTT 或 ）。

## 初始键




不确定您所处的位置？想返回初始屏幕？按 。

## 背景灯控制

您可以通过按任意键来禁用背景灯（隐蔽操作）或使其自动打开。第三个选项是半自动的，这意味着，只有在打开对讲机、按下设定的背景灯功能键并开始充电时，才会启动背景灯。


背景灯将持续亮到预设的计时器超时。

## 菜单快捷方式

- 您通过按  和一个数字键就可以很容易地进入任何菜单项。（ 和数字键之间不要有延时！）
- 您可以要求您的运营商为您设定菜单快捷方式。
- 您还可以定义新的快捷方式：进入菜单项，按住 ，然后按照屏幕中的说明进行操作。

## 大声 / 小声语音控制

您可以通过专用的扬声器控制键来控制任何个呼或组呼的语音路径（扬声器 / 听筒 / PHF）。

但您可以通过菜单来定义，以便将所有组呼设为大声模式（ > 设置 > 音频 > 音频切换 > 始终大声）。

**注意**

“高 / 低”音频控制通过触摸键切换。有关详情请联系您的运营商。

## 统一地址簿

您可以在同一个联系人姓名下为其保存多个号码（私密 ID、移动电话、住宅电话、单位电话、PABX 等）。您最多可以建立 1000 个联系人，并包含 1000 个人号码和 1000 个电话号码。

## 文本大小

您可以看到显示屏中的文本有两种大小：**标准**或**放大**（**MENU** > **设置** > **显示** > **文本大小**）。

## 通话组容量


您的运营商最多可以为集群模式设定 2048 个通话组，为直通模式设定 1024 个通话组。

## 灵活的文件夹

您可以询问您的运营商在每个文件夹中定义多少个通话组（最多 256 个文件夹）。

### “我的通话组”文件夹

您可以选择任何通话组（TMO 或 DMO）并将其添加到您的个人文件夹中。

在初始屏幕中，按  可快速进入您的“我的通话组”文件夹。

## 选项（初始屏幕中）

通过初始屏幕选项，您可以轻松更改文件夹、选择通话组、在 TMO 和 DMO 之间切换（或反之），以及实现其他功能。

## 在菜单中浏览

上下滚动菜单项过程中，您还可以左右滚动。（左右滚动用于选择该菜单或返回上一层菜单。）

## 反转银幕的开/关

启动此功能时可以上下颠倒屏幕的内容。如果您将 MTP850 带在肩上、皮带或翻领上，同时需要阅读屏幕下面的内容时此功能非常有用。要启动 / 关闭此功能，可以按 **MENU** 并选择 **设置** > **显示屏** > **反转银幕** 或按住预先设定的单键按钮。


## 已拨呼叫列表 - 快速访问

在初始屏幕上按 ，进入最近拨出的呼叫号码列表。

## 通过浏览键自动滚动

在列表中按住  或  可以自动滚动。

## 最新呼叫号码菜单 – 快速访问

在初始屏幕中，按 。

### 设置时间和日期

时间和日期由基础设施同步。如果不在基础设施信号范围内，则可手动设定。

- 要设置时间，请按 **MENU**，然后选择**设置 > 时间和日期 > 设置 > 设置时间**。使用浏览键和 / 或数字键输入时间。
- 要设置日期，请按 **MENU**，然后选择**设置 > 时间和日期 > 设置 > 设置日期**。使用浏览键和 / 或数字键输入日期。
- 要自动设置日期和时间，请按 **MENU**，然后选择**设置 > 时间和日期 > 系统更新**。根据您的需要选择三个选项中的一个：
  - **关** – 系统更新关闭
  - **仅时间** – 更新时间
  - **时间和时差** – 当用户处于 TMO 模式下时，将根据当前时区自动更新时间。在 DMO 模式中对讲机使用其内部时钟。

### 模板名称

用户可以根据个人喜好为模板提供一个标题，否则会使用默认名称。

### 在通话组之间切换

您可以在任何模式中和模式之间切换最近两个通话组。例如当您处于 TMO 中并要切换到 DMO 中的最后通话组时，按住单键按钮。它可以在一种模式下，用两种方式工作。关机后，对讲机会记住您的最后通话组。

- 要进入菜单，请按 **MENU**。
- 要在菜单中滚动，请按 **↶** 或 **↷**。
- 要选择菜单项，请按 **选择** 软按钮或 **↵**。
- 要返回上一级菜单，按 **返回** 或 **↶**。
- 要退出菜单项，按 **↵**。

**选择集群 / 直通模式操作**

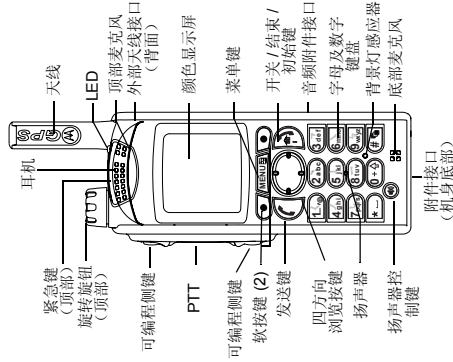
- 您的对讲机可以配置一个单键按钮，在 TMO/DMO 之间切换。有关详情，请联系您的运营商。
- 从初始屏幕中，按 **“选项”**，选择 **“集群模式”** 或 **“直通模式”**。

**发起 TMO 组呼**

从初始屏幕中找到所需的通话组。  
按 **选择** 软按钮（如果已设置好）。按 **选择** 软按钮（如果已设置好），然后开始讲话（如果已设置好）。释放 **PTT** 即可接听。

**发起 DMO 组呼**

进入 DMO 模式。选择所需的通话组。  
按 **选择** 软按钮（如果已设置好）。按 **选择** 软按钮（如果已设置好），然后开始讲话（如果已设置好）。释放 **PTT** 即可接听。

**快速参考指南**

**打开 / 关闭 MTP850**

要打开 / 关闭 MTP850，按 **↵**。

**发起 TMO 紧急组呼**

进入 TMO 模式。按住紧急键。紧急告警自动被发送。按住 **PTT**。等待通话允许音，然后开始讲话（如果已设置好）。释放 **PTT** 即可接听。如果使用“紧急麦克风风”功能，等待直到**紧急麦克风**打开信息显示，不需按下 **PTT** 亦可讲话。

要退出紧急模式，按 **退出** 软按钮。


**发起 DMO 紧急组呼**

进入 DMO 模式。按住紧急键。按住 **PTT**。等待通话允许音，然后开始讲话（如果已设置好）。释放 **PTT** 即可接听。要退出紧急模式，按 **退出** 软按钮。

**发起 TMO 单工个呼**

从初始屏幕中拨打号码。按 **呼叫** 类型选择呼叫类型。按下 **PTT** 后再释放。此时铃声响起。被叫方应答。等待被叫方讲话结束。按住 **PTT**。等待通话允许音，然后开始讲话（如果已设置好）。释放 **PTT** 即可接听。按下 **↵** 终止呼叫。


## 发起 DMO 单工个呼

进入 DMO 模式。从初始屏幕中拨打号码。按住 **PTT**。等待通话允许音，然后开始讲话（如果已设置好）。释放 **PTT** 即可接听。按下  终止呼叫。


## 发起双工个呼 / 电话 / PABX 呼叫

从初始屏幕中拨打号码。按**呼叫类型**选择呼叫类型。按下  然后释放。此时铃声响起。被叫方应答。按下  终止呼叫。



## 应答呼叫

您的 MTP850 切换到呼入并提示您有呼叫进入。要应答呼叫，请按 （用于应答电话 / PABX / 双工个呼）或 **PTT**（用于应答所有其他呼叫）。

## 发送状态信息

选择所需的通话组，然后按 **MENU** 并选择**短消息 > 发送状态**。选择状态信息并按  或 **PTT**。

## 发送新的短消息

按 **MENU**，然后选择**短消息 > 新编短消息**。写入您的短消息。选择**发送**，或者按  或 **PTT**。选择您的收件人或输入号码。选择**发送**，或者按  或 **PTT** 发送新的短消息。

## 提示及技巧

- **初始键**  
不确定您所处的位置？想返回初始屏幕？按 。

- **背景灯控制**

您可以关闭背景灯（隐蔽操作），让它在按任何按键时自动打开，或者通过充电和按指定按钮实现半自动打开对讲机。

您还可以按上面的侧面键 - 用来打开 / 关闭背景灯（如果已设置好）。

- **菜单快捷方式**

您通过按 **MENU** 和一个数字键就可以很容易地进入任何菜单项。（**MENU** 和数字键之间不要有延时！）

您可以要求您的运营商为您设定菜单快捷方式。

您还可以定义新的快捷方式：进入菜单项，按住 **MENU**，然后按照屏幕中的说明进行操作。

- **大声 / 小声音音控制**

您可以通过专用的扬声器控制键来控制任何个呼或组呼的语音路径（扬声器 / 听筒 / PHF）。

但您可以通过菜单来定义，将所有组呼设为大声模式（**MENU** > **设置** > **音频** > **音频切换** > **始终大声**）。

- **统一地址簿**

您可以在同一个联系人姓名下为其保存多个号码（私密 ID、移动电话、住宅电话、单位电话、PABX 等）。

- **文本大小**

您可以看到显示屏中的文本有两种大小：**普通或放大**（**MENU** > **设置** > **显示** > **文本大小**）。

- **“我的通话组”文件夹**

您可以选择任何通话组（TMO 或 DMO）并将其添加到您的个人文件夹中。

在初始屏幕中，按  快速进入您的“我的通话组”文件夹。







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