



Hytera

Preface

Thank you for purchasing Hytera TETRA digital trunking terminal. It has a large transfective TFT color display, and supports both TMO and DMO modes. The benefits that this terminal delivers will refresh your experience and enable you to be responsive to emergent situations.

To derive optimum performance from the terminal, please read this manual and the supplied Safety Information Booklet before use.

This manual is applicable to the following model:

PT580H





Instructional Icons

The radio is not intended for use by general population in an uncontrolled environment. It is only for occupational use and only applied to work-related conditions. The radio must be only used by users, who are fully aware of the hazards of the exposure and who are able to exercise control over their RF exposure to qualify for the higher exposure limits.

The following icons are available through this manual:



Caution: indicates situations that could cause damage to your product.



Note: indicates tips that can help you make better use of your product.

Term Explanation

Key Operation

Short press: to press a key and release it quickly.

Long press: to press a key and remain holding it down for a predefined period (1.5 seconds by default).

Hold down: to press a key and remain holding it down.

Individual Call

Individual call is a simplex or duplex call initiated by a single user to another user, involving the calling party and the called party only.

Group Call

Group call is a simplex call initiated by a single user to a group of users, involving the calling party and all the group members.

Telephone Call

Telephone call is usually a full duplex call initiated between PT580H and a PSTN subscriber (such as telephone user or mobile phone user).

To send or receive telephone calls, the terminal must operate in TMO mode, and must be authorized to access public network through PSTN gateway. Telephone call is a network service. For more details and availability of the service, please contact your service provider.

Emergency Call

Emergency call has the highest priority, and is very helpful for the user to request help when emergency occurs. Generally, it is set to group call type. Emergency call can break off any non-emergency calls in progress.

DMO (Direct Mode Operation)

DMO mode allows terminals to communicate directly with each other in simplex mode, without network restriction. But functions that require network access such as telephone call will be disallowed.

TMO (Trunking Mode Operation)

TMO mode allows terminals to communicate with each other via the TETRA network, in half duplex or full duplex mode. Functions that require network access are supported.

To operate in TMO mode, the terminal must be granted authorization by your service provider, and must be within the network coverage.

Air Interface Encryption

An encryption method helpful for protecting message transmitted over the air. It encrypts data and signaling transmitted between the base station and terminal, to protect the message from eavesdropping.





Full Duplex

Full duplex allows the ability to communicate in both directions simultaneously.

Half Duplex

Half duplex allows the ability to communicate in only one direction at a time. Two-way communication is possible, but not simultaneously.

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If you have any suggestions or would like to learn more details, please visit us at: <http://www.hytera.cn>.

RF Radiation Information

RF Radiation Profile

Radio Frequency (RF) is a frequency of electromagnetic radiation in the range at which radio signals are transmitted. RF technology is widely used in communication, medicine, food processing and other fields. It may generate radiation during use.

RF Radiation Safety

In order to ensure user health, experts from relevant industries including science, engineering, medicine and health work with international organizations to develop standards for safe exposure to RF radiation. These standards consist of:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J;
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992;
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1 – 1999;
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998;





FCC Regulations

Federal Communication Commission (FCC) requires that all radio communication products should meet the requirements set forth in the above standards before they can be marketed in the U.S, and the manufacturer shall post a RF label on the product to inform users of operational instructions, so as to enhance their occupational health against exposure to RF energy.

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

1. Your product radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.
2. Keep the product at least 2.5 centimeters away from your body during transmission.

EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. Please note that the above information is applicable to EU countries only.

CE 0678 





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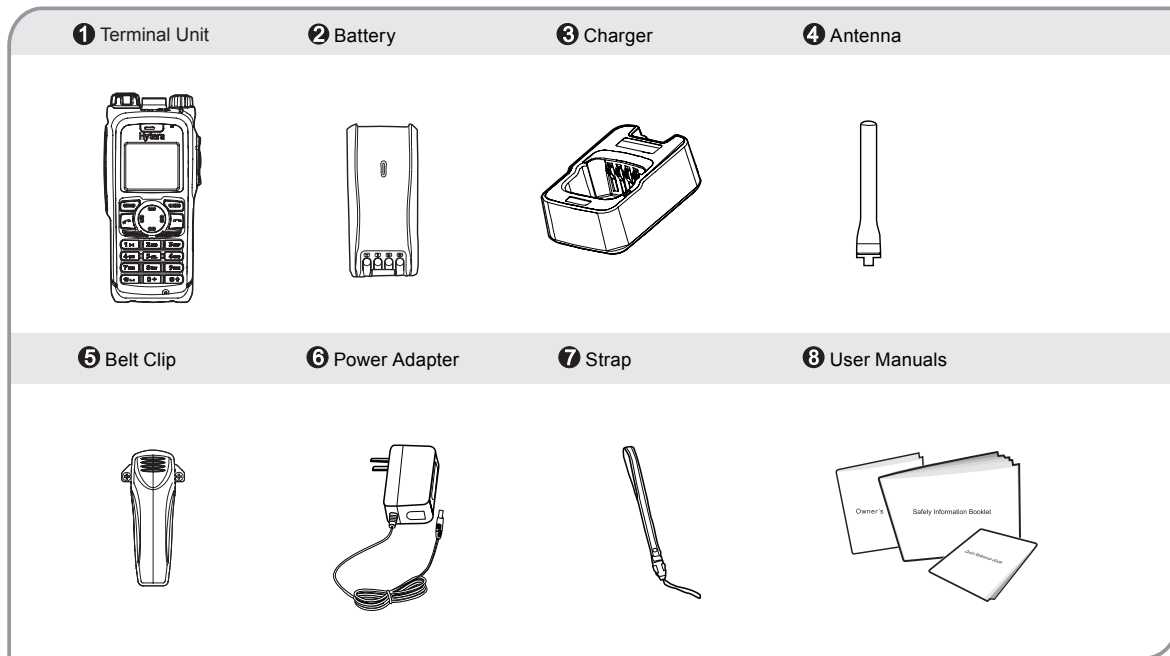
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Checking Items in the Package

Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.

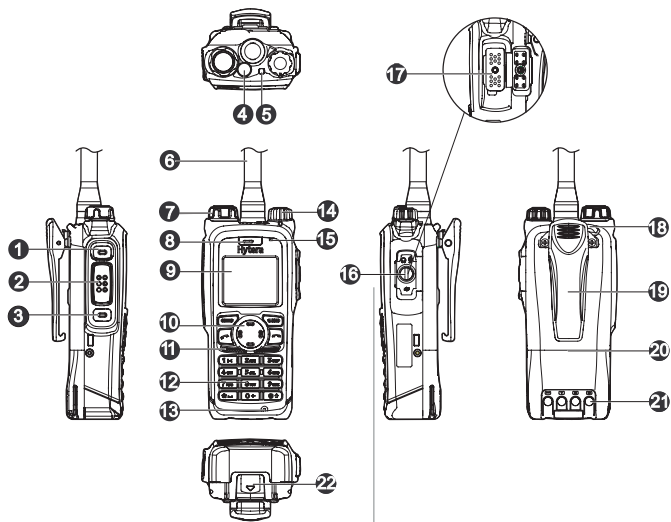


Note: The antenna may vary with different frequency bands. And the frequency band is marked on the label of antenna; if not, please refer to the label on the terminal for frequency band information.



Product Overview

Product Controls

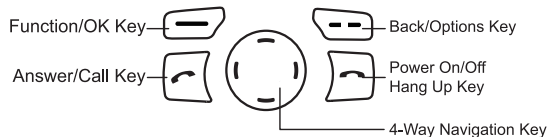


No.	Part Name	No.	Part Name	No.	Part Name	No.	Part Name
1	SK1 (programmable)	2	PTT Key	3	SK2 (programmable)	4	Emergency Key
5	LED Indicator	6	Antenna	7	Talkgroup Selector knob	8	Receiver
9	LCD Display	10	Function Keypad	11	Speaker	12	Numeric Keypad
13	Duplex Microphone	14	Power On-Off/Volume Control knob	15	Simplex Microphone	16	Accessory Jack Cover
17	Accessory Jack	18	Strap Hole	19	Belt Clip	20	Battery
21	Charging Piece	22	Battery Latch				





Product Overview

Function Keypad



Shortcut Keys

Most of the keys, including **SK1**, **SK2**, four Navigation Keys, numeric keys 1-9,  and , can be set as shortcuts to terminal functions or menus. Then you can quickly access a menu or function with a key press. For operation details, see Shortcuts on page 14.

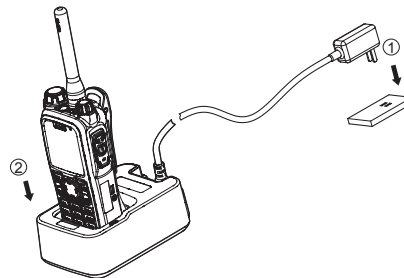


Note: Long and short press of SK1 or SK2 can be assigned with different functions.

Before Use

Charging the Battery

Only use the charger and battery specified by Hytera. The charge LED will indicate the charging progress.



■ Procedures:

1. Connect the power adapter to AC socket. See arrow ①.
2. Plug the power adapter into the rear jack of charger; See arrow ②.
3. Place the terminal with the battery attached, or the battery alone, into the charger. See arrow ③.
4. The charging process begins when the charger LED glows red.
5. When charging is complete, the charger LED glows green.



Note: To achieve optimal battery performance, please charge the battery for 5 hours before initial use.





Before Use

■ LED Indications and Charging Progress

LED Indicator	Status
LED flashes red slowly.	Standby (no load)
LED glows red.	Charging
LED glows orange.	85% or more charged
LED glows green.	Fully charged
LED flashes red rapidly.	Failure

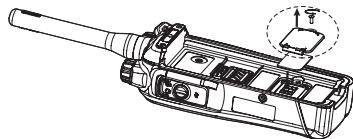


Caution: Be sure to read the Safety Information Booklet, to get necessary safety information.

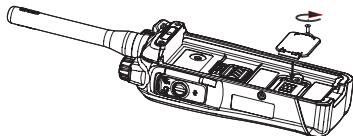
Assembling the Accessories

■ Attaching the SIM Card

1. Loosen the screw fixing the SIM card cover, open the cover, and then place the card into the slot properly, as shown in the figure below.



2. Close the cover and tighten the screw, as shown in the figure below.



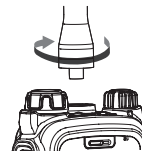
To take out the SIM card, power off the terminal first, and then do as instructed in step 1.



Note: SIM card related services shall be available at later stage.

■ Attaching the Antenna

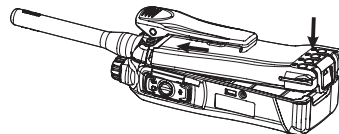
Turn the antenna clockwise to fasten it.



To remove the antenna, rotate it counter-clockwise.

■ Attaching the Battery

1. Fit the battery into the battery slot properly, as shown in the figure below.
2. Slightly press the bottom of the battery until a click is heard.



To remove the battery, turn off the terminal first. Then slide the battery latch upwards to unlock the battery.

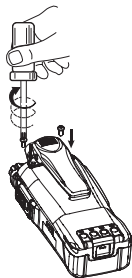




Before Use

■ Attaching the Belt Clip

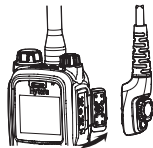
1. Remove the two screws as shown in the figure below.
2. Align the screw holes on the belt clip with those on the terminal's body, and then tighten the screws, as shown in the figure below.



To remove the belt clip, loosen the screws.

■ Attaching the Audio Accessory/Programming Cable

1. Loosen the screw on accessory jack cover, and open the cover as the arrow shows.
2. Align the plug with the accessory jack.
3. Tighten the screw on the plug.



To remove the accessory, loosen the screw.

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Status Indication

LCD Icon

Icon Name	Icon	Terminal Status
Battery Strength Icons		Low battery
		More bars indicate more battery power
RSSI		No signal
		More bars indicate better signal strength
Message Icons		Unread message
		Inbox is full of unread messages
Operation Mode Icons		The terminal currently operates in TMO mode
		The terminal currently operates in DMO mode
Profile Icons		Silent
		Normal (Ring and vibration are enabled)
		Vibration only
Accessory Icon		An audio accessory is connected
Call Icon		A call is in progress
Talkgroup Selection Icon		Talkgroup selection is in progress.





Status Indication

LED Indicator

LED Indication	Terminal Status
LED glows red.	Transmitting a call
LED glows green.	Receiving a call
LED flashes red slowly.	Low battery
LED flashes green slowly.	DMO mode channel free
LED glows orange.	DMO mode channel busy

Basic Operations

Turning the Terminal On/Off

To turn the terminal on, rotate the **Power On-Off/Volume Control** knob clockwise until a click is heard.


To turn the terminal off, rotate the knob counter-clockwise until a click is heard.

Adjusting the Volume

In the home screen, rotate the **Power On-Off/Volume Control** knob clockwise to increase the call volume, or counter-clockwise to decrease it.

To adjust the alert tone volume, go to "Func -> Profiles -> Normal".

Selecting a Talk Group


In the home screen, rotate the **Talkgroup Selector** knob to switch to select your desired talk group ( appears on the

Basic Operations

display). Meanwhile, name of the talk group appears on the screen.

You can also set a talk group as the default group by going to "Options->Talk Group->Selected List". See Selected List on page 15 for more details.

Locking/Unlocking the Keypad

To lock or unlock the keypad, press **OK** and then . When the keypad is locked, you can also answer and reply to calls. After a call is completed, the keypad will return to be locked.

Switching Operation Mode

Go to "Options -> TMO/DMO" to select your desired mode.





Call



Individual Call

Transmitting an Individual Call

Operations in DMO mode:

1. Input the number you want to call through the keypad, or go to "Func -> PhoneBook" to select the contact you want to call.
2. Then hold down the **PTT** and speak into the microphone, to transmit a simplex call.

Operations in TMO mode:

- Through the menu
1. Go to "Func -> PhoneBook" to select the contact you want to call.
 2. Hold down the **PTT** to transmit a simplex call, or press  to transmit a duplex call.
- Through manual input
1. Input the number you want to call through the keypad.
 2. Set Ctype to Private No (it will appear on the screen).
 3. Hold down the **PTT** to transmit a simplex call, or press  to transmit a duplex call.



Note: Entry of private number must comply with the SSI&TSI dialing rules. See Appendix 2 SSI&TSI Dialing Rules on page XXX for more details.


Receiving and Responding to an Individual Call

Operations in DMO mode:

When the **PTT** is released, the terminal is always ready to receive

calls. When the other party stops talking, you can hold down the **PTT** and speak into the microphone to call back.


Operations in TMO mode:

- Simplex Call
When a simplex call is received, you can receive without any operation. When the other party stops talking, you can hold down the **PTT** and speak into the microphone to call back.
- Duplex Call
When a duplex call is received, you can press  to receive. And then both parties can speak simultaneously without any key operation.

Group Call

Group call is a simplex call initiated by a single user to all users in a talk group. Available talk groups are preset by your dealer. DMO mode supports up to 1024 talk groups, and TMO mode supports up to 2048 talk groups. Both modes support group call, and operations are the same.

Transmitting a Group Call

1. In the home screen, rotate the **Talkgroup Selector** knob to switch to your desired talk group ( appears on the display).
2. Press **OK** to confirm your selection.
3. Hold down the **PTT** to initiate the call.





Call




Note: In TMO mode, you can transmit a group call to a talk group only after it is attached successfully. If you failed to attach a talk group, the reason may be that the group does not exist in the network, or you are out of the network coverage.

Receiving and Responding to a Group Call


You can listen to an incoming group call without any key operation. When the other party stops talking, you can hold down the **PTT** and speak into the microphone to call back.

Telephone Call (TMO only)

Transmitting a Telephone Call

1. Input the number you want to call through the keypad.
2. Set Ctype to PABX or PSTN.
3. Press  to initiate the call.

Answering a Telephone Call

When there is an incoming telephone call, you can press  to answer. And then both parties can speak simultaneously without any key operation. To reject or to hang up a telephone call, press




Note: The terminal must be set with appropriate Gateway No. Please contact your network operator for more details.

Emergency Call

Both DMO and TMO modes support emergency call, and operations are the same.

Long press the **Emergency** key to initiate an emergency call.

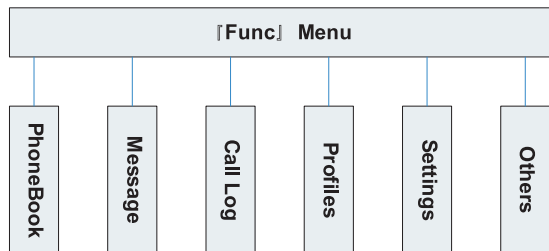
To terminate the call, press . In DMO mode, emergency calls are transmitted to the current talk group. And in TMO mode, the target receiver is programmable through the programming software.



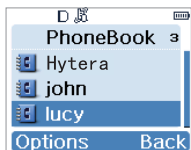
Menu Navigation

[Func] Menu

In the home screen, Press **Func** key to access the menu list. The operations in TMO mode and DMO mode are the same. Here we are going to introduce all menu items based on TMO mode.



PhoneBook

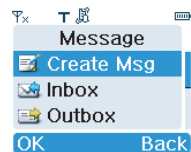


This menu is used to store your contact information. It can contain up to 512 entries. Each entry consists of contact name and contact number. To access this menu, go to "Func -> PhoneBook" in the home screen, and then you can perform these operations:

- Create a new contact

- View a contact
- Modify a contact
- Delete a contact
- Delete all contacts
- View phonebook memory
- Search a contact (by name)
- Call a contact

Message



■ Create Message



1. Status Message
Status Message is predefined by your dealer. You can choose to read and send them, but no editing is available.
2. User Message
This option allows you to create a new text message with 140 bytes at most. When creation is done, you can save the message to Drafts or send it to an individual user or to a talk group.

■ Inbox

All received messages are saved here. It can contain up to 50



Menu Navigation

entries. When a new message arrives, the icon  and the number of new messages will appear on the display. Press **View** to read the new message now or press **Back** to view it later. When the inbox is overflowed with unread messages, the icon  will appear. Please sort your inbox in time to receive more messages. For any message, you can perform these operations:

Reply: to reply to the message sender;

Delete: to delete the current message;

Delete All: to delete all received messages;

Individual: to forward the message to an individual user;

Group: to forward the message to a talk group;

Edit: to edit the message;

Extract No.: to extract numbers involved in the message;

Call: to call the message sender.

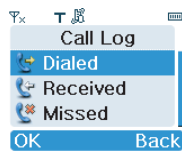
■ Outbox

All sent messages are saved here. It can contain up to 20 entries. The available options are: Delete, Delete All, Individual, Group, Extract No. and Call.

■ Drafts

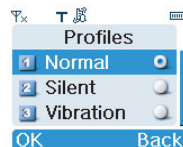
You can save up to 10 drafted messages here. For any message, you can choose to delete, edit or send it.

Call Log



This terminal can save up to 20 entries in the option Dialed, Received and Missed respectively. When there is a missed call, appropriate indications will be given on the display. After selecting an entry, these options are available: Call, View, Save, Delete and Delete All.

Profiles

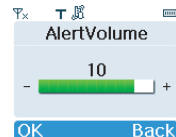


■ Normal

In this mode, the terminal will alert you to an incoming call or a new message by giving ring and vibration indication. To match your actual needs and preferences, you can customize the following parameters:

Alert Volume

You can decrease or increase the volume level using **Left** or **Right** key.





Menu Navigation

Alert Type

You can use **Left** or **Right** key to select your desired alert type for an incoming call, a new message or keypad press. For an incoming call or a new message, the available options include: Off, Ring, Vibra and Rg & Vb; for keypad press, the available options include On and Off.



Ring Tone

You can use **Left** or **Right** key to select your desired alert tone for an incoming call or a new message.



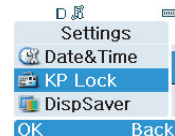
■ Silent

In this mode, no ring or vibration indication will be given when a new call or new message arrives.

■ Vibration

In this mode, only vibration indication will be given when a new call or new message arrives.

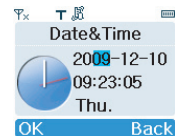
Settings



■ Date and Time

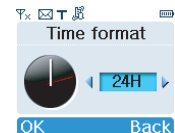
This option allows you to set the current date, time and time format. The method is as follows:

To set date and time



Press **Left** or **Right** key to select the item to be set, and then input the right value through keypad. When the current time is displayed in 12 Hour format, press **Up** or **Down** key to toggle it between AM and PM.

To set time format





Menu Navigation

You can toggle the time format between 24H and 12H using **Left** or **Right** key. When all settings are done, press **OK** to make them take effect.

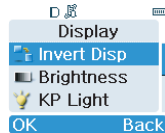
■ Keypad Lock

This option allows you to enable or disable the Auto Keypad Lock feature. If it is enabled, the keypad will be locked automatically after the programmed time (10 seconds by default) elapses.

■ Display Saver

This option allows you to enable or disable the screensaver. If enabled, it will be activated automatically after the programmed time (15 seconds by default) elapses.

■ Display



Display Invert

This option allows you to invert the displayed information by 180° so that you can access it easily.



Note: when the display is inverted, the function of **OK** key and **Back** key exchanges.

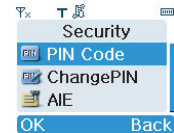
Brightness

You can use **Left** or **Right** key to adjust the brightness level.

Keypad Light

This option allows you to enable or disable keypad light. The lighting duration is programmable with the programming software.

■ Security



PIN Code On/ Off

To set PIN code On or Off, you will be required to input the PIN code. The terminal will be locked when wrong PIN code is entered up to the predefined times. To unlock it, you need to enter the right PUK code. Then the terminal will bring you to an interface, where you can reset your PIN code or press **Back** key to restore it to default value. However, when a wrong PUK code is entered up to the predefined times, the terminal will be disabled temporarily, showing "Radio Disabled", and then get powered off automatically.



Note: The number of times that you are allowed to input wrong PIN or PUK code is programmable through the programming software. When the terminal is disabled, contact your dealer to activate it. The default PIN code is 1234, and the default PUK code is 12345678.





Menu Navigation

PIN Code Change

This option allows you to change the PIN code. Before changing it, you need to enter the old PIN code correctly. Then you will be asked to input your new PIN code twice. Please make sure the codes you entered are identical; otherwise, you have to reset it again.

Man Down

When this feature is enabled, the terminal will send an emergency call to the predefined ID automatically once it falls over or tilts by 45°. With this feature, you can enjoy enhanced personal protection.

Reset All

This option allows you to restore all settings to default value. To perform this operation, you need to input the right PIN code.

Others



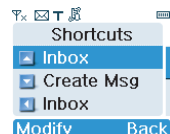
My Information

Under this option you can view some basic information about the radio, including MCC, MNC and ISSI.

Shortcuts

To enhance operation convenience, you can assign your desired

function to a specific key as shortcut. In this way, you can press the key to access a function easily.



To create a shortcut

1. Select Shortcuts to access the list of shortcut keys;
2. Select your desired key, and press **Modify** to access the list of assignable functions;
3. Select your desired function, and press **OK** to confirm.

To cancel a shortcut

1. Select Shortcuts to access the list of shortcut keys;
2. Select the shortcut key to be cancelled, and press **Modify** to access the list of assignable functions;
3. Select Empty, and press **OK** to confirm.



Note: The definition of P1, P2, P3 and P4 is shown below:

Keys	P1	P2	P3	P4
Definition	Short press of SK1	Short press of SK2	Long press of SK1	Long press of SK2



Menu Navigation

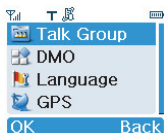
■ Calendar

This option allows you to view calendar information.

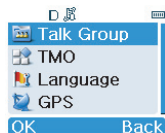


『Options』 Menu

In the home screen, press **Options** to access this menu. Here we are going to introduce all menu items based on TMO mode.



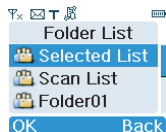
『Options』 Menu for TMO




『Options』 Menu for DMO

Talk Group

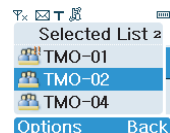
Under this option, you will see Selected List, Scan List, and one or more static folders created through programming software, as shown in the following picture:




Selected List

Under this option, you can set a talk group as the default group. Alternatively, you can do so by rotating the **Talkgroup Selector** knob in the home screen. The default group is indicated by the icon 

In the home screen, you can make a group call to the default group by pressing **PTT** key directly. To add groups to the Selected List, enter a static folder, and select “As SltcList” from Options.



Scan List

You can receive calls only from groups that are included in the scan list and have been attached successfully (indicated by the icon ). But you can always receive from the default group and the emergency group, regardless of the foregoing condition.

After entering the scan list, you can perform the following operations:

Scan On: to enable Scan feature and to attach all talk groups in the scan list;

Scan Off: to disable Scan feature and to detach all talk groups except background group, default group and emergency group.

Scan: to attach all talk groups in the scan list.

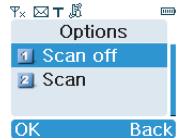
To add groups to the Scan List, enter a static folder, and select “As ScanList” from Options.



Menu Navigation



Note: Scan List is available for TMO mode only.



Static Folder

After accessing any of the folders, you can perform the following operations:

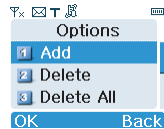
Add: to include a talk group into the current folder;

Delete: to remove a talk group from the current folder;

Delete All: to remove all talk groups from the current folder.

As SitList: to add all talk groups in the current folder to Selected List;

As ScanList: to add all talk groups in the current folder to Scan List.



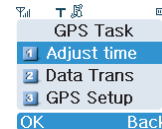
DMO

You can use this option to make your terminal work in DMO mode. In DMO mode, this option shall be TMO. Likewise, you can use it to make your terminal work in TMO mode.

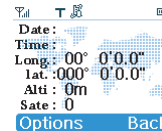
Language

This option allows you to select your favorable language. Currently, this terminal only supports English and Simplified Chinese.

■ GPS



Display of GPS Data



GPS data includes date, time, longitude, latitude, altitude, and number of available satellites. Date and time are correlative to the selected time zone.

Adjust Time

This option allows you to calibrate the time currently displayed on your terminal with GPS time, and is correlative to the Time Zone option.

Data Transmit

You may choose to transmit GPS data to an individual user, a





Menu Navigation

group of users, or the control center. This option is correlative to the Send Mode option.

Operations to send GPS data are similar to that of short message. Received GPS data is saved in "Message->Inbox".

- Individual

To transmit GPS data to an individual user.

- Group

To transmit GPS data to all users included in a certain group.



Note: To implement the Data Transmit function, the terminal must operate in TMO mode. And GPS data is deemed valid only when the GPS receiver has received data from at least 3 satellites.

Otherwise, "GPS data invalid" will appear on the screen when you attempt to transmit GPS data.

GPS Setup

You can set the time zone and select a method to transmit GPS data.

- Time Zone

You can select a time zone according to terminal location or your preference. There are 25 available time zones, used for time calibration.

- Send Mode

You can choose whether to send GPS data to a specified target periodically. The transmission interval is programmable by your dealer. There are two transmission modes available:

Manual Send

To transmit GPS data to other terminals manually.

Auto Send

To transmit GPS data to other terminals automatically at a regular interval.





Troubleshooting

Symptom	Solution
The terminal can not be powered on.	Please check whether battery power is too low or whether the battery fails to function due to damage or improper installation.
Network registration fails or network can not be found.	<ol style="list-style-type: none">1. Please check the signal strength and see whether your terminal is within the network coverage.2. Contact the network administrator, and confirm whether the terminal has acquired appropriate authorization.3. Check whether your terminal is in TMO mode.
The terminal is unable to make a call.	<ol style="list-style-type: none">1. Please check the signal strength and see whether your terminal is within the network coverage.2. Check whether the called party is within the network coverage.
The terminal is unable to call or receive from a specific group.	<ol style="list-style-type: none">1. Check whether your terminal is a member of the target group.2. Check whether your terminal is authorized to access the target group.
The terminal is unable to make a call in DMO mode.	<ol style="list-style-type: none">1. The called party is out of coverage.2. The called party is not in DMO mode.
Half duplex transmission is terminated.	Overlong time of transmission makes the timer expire.
Normal call is interrupted.	Check whether a terminal is making a pre-emptive priority call or emergency call.
For the same status message, the content displayed at the sending party and at the receiving party varies.	Please check whether both parties have assigned the same content for this status message ID.
Abnormal disconnection occurs during a call.	<ol style="list-style-type: none">1. Check the signal strength in TMO mode.2. Check whether you are in a place where the signals can be shielded (such as basement and tunnel) and whether the other party is out of coverage.3. Check the battery strength.



Note: If the above solutions can not fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.





Care and Cleaning

To guarantee optimal performance as well as a long service life of the product, please follow the tips below.

Product Care

- Do not pierce or scrape the product.
- Keep the product far away from substances that can corrode the circuit.
- Do not hold the product by its antenna or earpiece cable directly.
- Attach the accessory jack cover when the product is not in use.

Product Cleaning

- Clean up the dust and fine particles on the product surface and charging piece with a clean and dry lint-free cloth or a brush regularly.
- Use neutral cleanser and a non-woven fabric to clean the keys, control knobs and front case after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface case damage. Make sure the product is completely dry before use.



Caution: Power off and remove the battery before cleaning.



Optional Accessories

The following items are the main optional accessories for the product, and please consult your local dealer for more information.

3-Wire Surveillance Earpiece with
Transparent Acoustic Tube (black/
beige) EAN17/ EAN18



MCU Multi-unit Rapid-
rate Charger (for Li-
ion/Ni-MH batteries)
MCA06



Battery Analyzer MCA05



Programming
Cable (USB Port)
PC36



Caution: Use the accessories specified by Hytera only. If not, Hytera shall not be liable for any losses or damages arising out of use of unauthorized accessories.





Appendix 1 Input Method

You can enter aliases, numbers or messages using the keypad. This terminal supports these input methods: **Simplified Chinese Pinyin** (拼), English (**ABC/abc**) and Number (**123**).

Switch of Input Method

In input mode, press to switch to your desired input method. The appropriate symbol will appear on top right corner of the screen;

Simplified Chinese Pinyin

Enter the pinyin through alphanumeric keys; then a list of possible combinations and corresponding characters will appear; For example, to input the Chinese character “间”:



1. Press , , and in order;
2. Press **OK** to move the cursor from Pinyin area to Chinese character area;
3. Use the navigation keys to scroll to the target character “间”;
4. Press the **OK** key to enter the selected character.

Switch between Uppercase and Lowercase

In input mode, press to switch to your desired input

method. All English letters are distributed among 8 alphanumeric keys. Press appropriate key repeatedly to get and enter your desired letter

Number

When the input method is switched to Number, press appropriate key to enter your desired number.

Punctuation

In Simplified Chinese Pinyin/English mode, press to enter your desired punctuations; while in Number mode, it is not allowed to enter any punctuation.

Space

In English/Number mode, long press to enter a space, and short press it to enter “*”;

To enter a space in Simplified Chinese Pinyin mode, press and then select the space (the first one).



Note: Short press Back key to delete the entered character one by one, or long press it to delete all entered characters at a time.





Appendix 2 SSI&TSI Dialing Rules

This terminal supports these dialing methods: **SSI&TSI**, **PABX** and **PSTN**. Each method shall follow a specific dialing rule. Currently, this terminal is only capable of checking SSI&TSI dialing rules. When you want to call a PABX or PSTN subscriber, please input the target number directly through the keypad. SSI&TSI dialing rules are as follows:

- For target number less than 8 digits, input it directly; For example, when MCC = default value, MNC = default value and ISSI = 504, you just need to input 504 or 00000504 to make the call;
- For target number with 9-13 digits, input MNC+ISSI; In this case, ISSI must be 8 digits long, and add 0 before the first digit to supplement the balance when it is less than the said length. For MNC, input it as it is. For example, when MCC=default value, MNC=20 and ISSI=504, you need to input 2000000504 or 0002000000504 to make the call;
- For target number over 13 digits, input MCC+MNC+ISSI; In this case, ISSI must be 8 digits long, MNC must be 4 or 5 digits long and MCC must be 3 digits long. Add 0 before the first digit to supplement the balance when any of them is less than the said length; For example, when MCC = 460, MNC = 20 and ISSI = 504, you need to input 4600002000000504 or 460002000000504 to make the call.



Note: MCC stands for Mobile Country Code, MNC stands for Mobile Network Code and ISSI stands for Individual Short Subscriber Identity.

