Hytera

PT580 Plus
DIGITAL PORTABLE TERMINAL

QUICK REFERENCE GUIDE
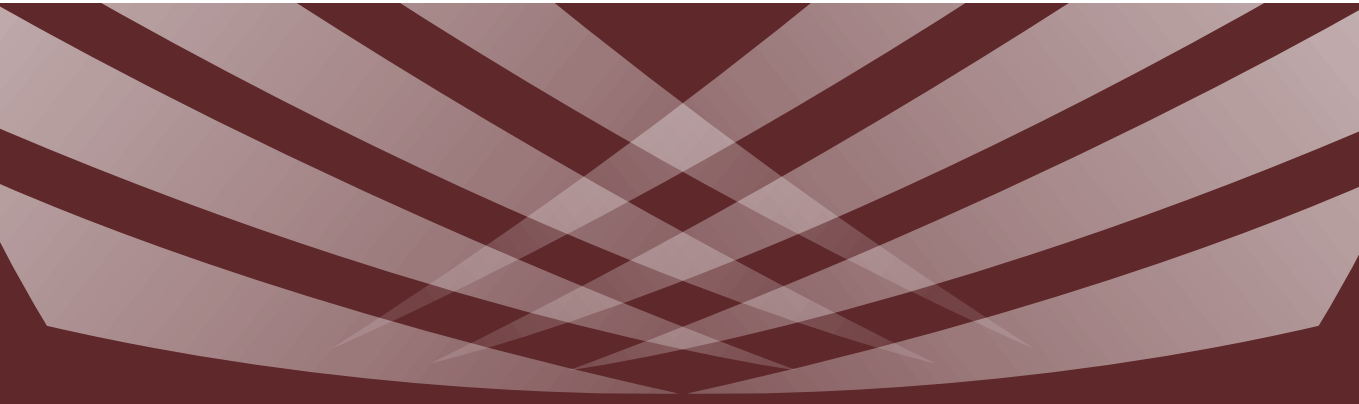
Product Overview

Product Controls
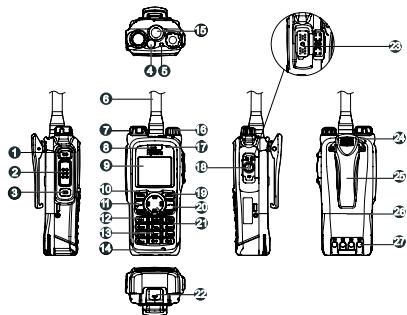
No.	Part Name	No.	Part Name
1	SK1 (Side Key 1)	15	Antenna Connector
2	PTT (Push-to-Talk) Key	16	Power On-Off/ Volume Control Knob
3	SK2 (Side Key 2)	17	Half-duplex Microphone
4	Emergency Key	18	Accessory Connector Cover
5	LED Indicator	19	Options/Back Key
6	Antenna	20	End Key
7	Group Selector Knob	21	Navigation Key
8	Full-duplex Receiver	22	Battery Latch

No.	Part Name	No.	Part Name
9	LCD Display	23	Accessory Connector
10	Func/OK Key	24	Strap Hole
11	Answer/Call Key	25	Belt Clip
12	Half-duplex Speaker	26	Battery
13	Numeric Keypad	27	Charging Piece
14	Full-duplex Microphone	/	/

> **Note:** For enhanced convenience, you may request your dealer to program the numeric keys 0–9, ***** key, **#** key, navigation keys, **Call** key, **OK** key, **Back** key, **SK1** and **SK2** key as shortcuts to certain features. For the detailed introduction, please refer to the corresponding *TETRA Terminal Series Feature Book*.

LCD Icon

Icon	Terminal Status
⊼ₓ	The terminal is not registered with the system (applicable for TMO only).
⊼ıll	The terminal is registered with the system, and more bars indicate stronger signal strength.
Pₓ	The terminal is not registered with the system while the WAP browser is running.
Pıll	The terminal is registered with the system while the WAP browser is running, and more bars indicate stronger signal strength.

Icon	Terminal Status
✉	There is(are) unread message(s).
✉	The Inbox is full.
T	The terminal is operating in TMO.
D	The terminal is operating in DMO.
T₀	The terminal is operating in fallback mode.
⊤	The scan feature is enabled in TMO.
⊤₀	The scan feature is enabled in fallback mode.
Ⓝ	The terminal is operating in silent mode.
🔔	The terminal is operating in normal (ring and vibration) mode.
📳	The terminal is operating in vibration mode.
🎧	An audio accessory is connected.
🎧	An audio accessory is connected but not available for use.
🎙	A palm microphone with keypad is connected.
📡	The GPS feature is active, and valid GPS or GLONASS data is received.
📡	The GPS feature is active, but no valid GPS or GLONASS data is received.
B	A wireless accessory is connected and available for use.
B	The BT feature is enabled but no wireless accessory is connected.
B	A wireless accessory is connected but not available for use.

English

| Icon	Terminal Status
☎	A call is in progress.
▣	The terminal is selecting a group.
🔊	A gateway device is available and connected in DMO.
🔊	A gateway device is available but not connected in DMO.
📶	A repeater is available and connected in DMO.
📶	A repeater is available but not connected in DMO.
🔒	The keypad is locked.
ⓒ	The SIM card E2EE is in use.
🔇	The microphone is disabled.
🔑	AIE (Air Interface Encryption) is in use.
🔑	E2EE (End-to-End Encryption) is in use.
🔑	Both AIE and E2EE are in use.
▣	The ongoing call enjoys a pre-emptive priority.
▤	The ongoing call enjoys a higher priority.
▤	The ongoing call enjoys a lower priority.
🚫	The terminal is prohibited from transmitting.
🔊	A call via gateway is in progress.
🔊	An E2EE call via gateway is in progress.
📶	A call via repeater is in progress.

Icon	Terminal Status
📶	An E2EE call via repeater is in progress.
📶	An AIE call via repeater is in progress.
📶	The AIE and E2EE call via repeater is in progress.
⚠	An Emergency call is in progress.
📢	A broadcast call is in progress.

LED Indicator

LED Indication	Terminal Status
Glows red	Transmitting
Flashes red slowly	Low battery voltage Please replace or recharge the battery
Glows green	Receiving
Flashes green slowly	Channel idle in DMO
Glows orange	Channel busy in DMO The terminal is prohibited from transmitting.
Flashes orange slowly	The BS with which the terminal is registered is out of service in TMO.

Basic Operations

Turning On/Off the Terminal

ON   OFF
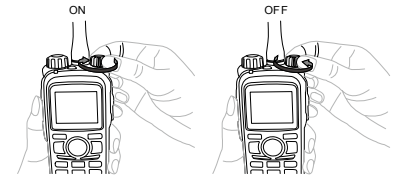
Switching Operation Mode

This terminal can operate in either TMO or DMO.

Press the **Func/OK** key on the home screen to enter the "Mode" menu, and then select "TMO" or "DMO" to switch the operation mode.

Adjusting the Call Volume

Selecting a Group

Inputting via Keypad

You can input alias, call numbers and messages via the keypad. In the editing mode, you may do as follows.

- Press `#,` to switch the text input methods between alphabetic mode and numeric mode

- In the alphabetic mode, press `1!<` to input the special characters. In the numeric mode, long press `1!<` to input the special characters.

- Press `*␣` to input the character "*".

- Long press `*␣` to enter a space.

Locking/Unlocking the Keypad

When you do not use the keypad, you can lock it to avoid misoperations.

- Enable the Auto Lock feature

  On the home screen, press the **Func/OK** key and go to "Settings -> Radio -> Keypad -> Auto Lock -> On".

- Lock/unlock the keypad.

  Press the **Func/OK** key and then press `*␣` to lock or unlock the keypad.

TMO Service

The trunked mode operation (TMO) supports either half-duplex or full-duplex operation and allows the terminals to communicate with each other via the TETRA network infrastructure. Thus features that require network access are available. To operate in TMO mode, the terminal must be authorized by your service provider, and must register with the network and stay within the network coverage.

Individual Call

An individual call is a half-duplex or full-duplex call initiated by an individual user to another individual user. You can initiate and receive an individual call to/from an individual contact.

Initiating an Individual Call

- Half-duplex Individual Call
1. Press the **Func/OK** key and go to "PhoneBook" menu to select an individual contact.
2. Hold down the **PTT** key to initiate a half-duplex individual call.
3. Hold down the **PTT** key to talk after the call is established.

- Full-duplex Individual Call
1. Press the **Func/OK** key and go to "PhoneBook" menu to select an individual contact.
2. Press `📞` to initiate a full-duplex individual call.
3. Both parties can talk at any time without any operation after the call is established.

Answering an Individual Call

- Half-duplex Individual Call

  » In case of an incoming call with Direct Signaling, the terminal will emit an alert tone to indicate that the call is established successfully. At this time, no operation is required to answer the call.

  » In case of an incoming call with Hook Signaling, the terminal will ring and vibrate to indicate this incoming call. At this time, press **PTT** to answer the call.

  Hold down the **PTT** key to talk after the call is established.

- Full-duplex Individual Call

  » In case of an incoming call with Direct Signaling, the terminal will emit an alert tone to indicate that the call is established successfully. At this time, no operation is required to answer the call.

  » In case of an incoming call with Hook Signaling, the terminal will ring and vibrate to indicate this incoming call. At this time, press **PTT** to answer the call.

  Both parties can talk at any time without any operation after the call is established.

Ending an Individual Call

Press `📞` to end the call.

Group Call

A group call is a half-duplex call initiated by an individual user to other members in a predetermined group. You can initiate a group call to the default group, and receive group calls from the members of the group.

Initiating a Group Call

On the home screen, rotate the **Group Selector** knob to select a group and hold down the **PTT** key to initiate a group call to this group, whose number is displayed on the home screen.

Answering a Group Call

You can answer a group call without any operation.

Ending/Exiting a Group Call

- The calling party can press 🔻 to end the group call.
- The called party can press 🔻 to exit the group call.

PABX/PSTN Call

A PABX/PSTN call is a full-duplex individual call with Hook Signaling established between an individual user and a PABX or PSTN user outside the TETRA network. The operations for initiating a PABX/PSTN call are as follows. For operations of answering or ending a PABX/PSTN call, refer to Individual Call.

Initiating a PABX/PSTN Call

1. On the home screen, press the **Func/OK** key to go to "Settings -> Network" and select "PSTN GW" or "PABX GW".
2. Return to the home screen and input a PABX or PSTN number.
3. Press the **Func/OK** key to select "PABX" or "PSTN" if Ctype appears on the screen.

    Skip this step if Ctype does not appear on the screen.
4. Press 📞 to initiate the call.

Emergency Call

An Emergency call is a call initiated by an individual user to the predefined contact for summoning help in urgent situations. With the highest priority, it can interrupt any other ongoing calls with lower priority if no resource is available.

Initiating an Emergency Call

Hold down the **Emergency** key for the preset time to initiate an emergency call to the predefined contact which can be the individual, group, PABX or PSTN user.

Answering an Emergency Call

You can answer an emergency individual call or emergency group call without any operation.
As for an emergency PABX/PSTN call, you need to press the **PTT** key to answer the call.

Ending/Exiting an Emergency Call

For ending operation, refer to Individual Call, Group Call or PABX/PSTN Call according to the predefined contact.

Message Service

Message Service allows you to send and receive a message, which includes Status Message and User Message. Status Message is programmed by your dealer only while User Message allows you to create, edit and send a text message.

Sending a Message

1. Press the **Func/OK** key to go to "Message -> New Msg" and select "Status Msg" or "User Msg".
2. For status message, select "View -> Options" and then select "Individual" or "Group"; for user message, press **Func/OK** key to select "Individual" or "Group" after editing the message.
3. Enter the individual number or select a group contact, and press the **Func/OK** key to send the message.

Viewing a Message

1. On the home screen, press the **Func/OK** key to go to "Message -> Inbox", and select the appropriate message.
2. Press the **Func/OK** key to view the content.

DMO Service

The direct mode operation (DMO) supports half-duplex operation and allows the terminals to communicate directly with each other, without using a TETRA network infrastructure. Thus features that require network access will be unavailable.

Individual Call

An individual call is a half-duplex call initiated by an individual user to another individual user. You can initiate and receive an individual call to/from an individual contact.

Initiating an Individual Call

1. Press the **Func/OK** key and go to "PhoneBook" menu to select an individual contact.
2. Hold down the **PTT** key to initiate the call.
3. Hold down the **PTT** key to talk after the call is established.

Answering an Individual Call

You can answer the call without any operation.

Ending an Individual Call

Press 🔻 to end the call.

Group Call

The group call operations in DMO are similar to those in TMO. Refer to Group Call for details.

Emergency Call

An Emergency call is a call initiated by an individual user to the default group for summoning help in urgent situations. With the highest priority, it can interrupt any other ongoing calls with lower priority if no resource is available.

Initiating an Emergency Call

Hold down the **Emergency** key for the preset time to initiate an emergency call to the default group.

Answering an Emergency Call

You can answer an emergency individual call or group call without any operation.

Ending/Exiting an Emergency Call

- The calling party can press [⌢] to end the Emergency call.

- The called party can press [⌢] to exit the Emergency call.

Message Service

The message operations in DMO are similar to those in TMO. Refer to Message Service for details.

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