



QUICK REFERENCE GUIDE

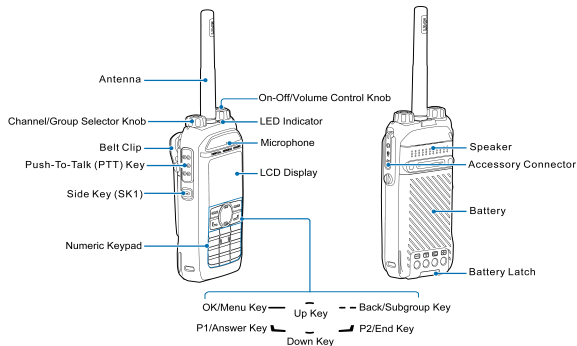
快速操作手册

PD68X DIGITAL PORTABLE RADIO

PD680 数字手持终端

Product Overview

Product Layout



Programmable Keys

You can request your dealer to program the following keys as shortcuts to radio features: **SK1**, **P1/Answer** key, **P2/End** key, **Back/Subgroup** key, **Up** key, and **Down** key. Consult your dealer for assignable radio features.

Basic Operations

Charging the Battery



CAUTION

- Read the *Safety Information Booklet* before charging.
- Use the approved charger to charge the battery.
- The remaining lithium-ion battery power is limited to 30% pursuant to the new lithium battery shipment regulation approved by International Air Transport Association (IATA).

Before initial use, make sure to charge the battery. You can charge either the standalone battery or the radio with battery attached. It is recommended that the radio remain powered off during charging.

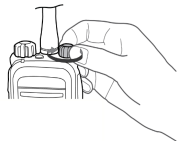
The LED indicator on the charger shows the charging status. For details, refer to the following table.

LED Indicator	Charging Status	LED Indicator	Charging Status
Glows red	The battery is charging.	Glows orange	The battery is charged to 90% or more.
Glows green	The battery is fully charged.	Flashes red rapidly	The battery fails to be charged.
Flashes red	No battery is placed on	/	/

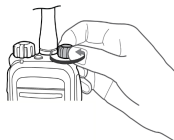
LED Indicator	Charging Status	LED Indicator	Charging Status
slowly	the charger.		

Turning the Radio On or Off

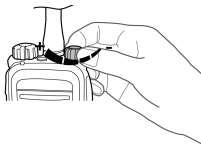
ON



OFF



Adjusting the Volume



Checking the Battery Power

The LCD icon  indicates the charge left in the battery. The LCD icon  indicates that the battery runs low. In this case, recharge or replace the battery. To check the battery power, press and hold the preprogrammed **Battery Power Indicator** key. The following table lists the battery power indications.

LED Indicator	Alert Tone	Battery Power
Glows green	Three beeps	High
Glows orange	Two beeps	Medium
Glows red	One beep	Low
Glows red	Low battery tone	Under the low battery threshold.

Locking or Unlocking the Keypad

When the keypad is not in use, it is recommended that you lock it to avoid unintended operations.

To lock or unlock the keypad, do one of the following:

- Press the preprogrammed **Keypad Lock** key.
- On the home screen, press the **OK/Menu** key and then press .

To allow the keypad to be locked automatically, do as follows:

1. Go to **Menu > Settings > Radio Set > Keypad Lock**.

2. Select **Enable**, and then set **Delay Time** by pressing the **Up** or **Down** key.

If the Keypad Lock Backup feature is enabled by your dealer, the radio saves the last settings of keypad lock upon power-off automatically.

In addition, you can go to **Menu > Settings > Radio Set > Optional Key** to set whether the corresponding keys and knobs still work when the keypad is locked.

Using the Keypad

You can use the keypad to enter contact aliases or IDs and edit messages.

- To switch the input method between alphabetic mode and numeric mode, press .
- To enter special characters, press  in alphabetic mode or  in numeric mode.
- To enter a space, press  in alphabetic mode.

Switching the Operation Mode

The radio can operate in conventional mode, or digital/analog trunking mode if enabled by your dealer.

To switch the operation mode, go to **Menu > Mode > Manual Switch**, select the required mode, and then press the **OK/Menu** key.

To allow the radio to automatically switch to a mode based on signal strength, go to **Menu > Mode > Auto Switch**, and then select **Enable**.

Selecting a Zone and Channel

Conventional Mode

In conventional mode, the radio receives and transmits data and voice on the selected channel. A zone is a group of channels within the same operational area. The radio supports up to 64 zones, each of which contains up to 256 channels. Before selecting a channel, make sure that the current zone contains the channel.

To select a zone, go to **Menu > Zone**, and then select the required zone.

To select a channel, rotate the **Channel Selector** knob.

Trunking Mode

In trunking mode, the radio hunts for available base stations automatically. After successful registration, the radio can receive and transmit data and voice.

To select a group contact or a private contact, rotate the **Group Selector** knob.

A subgroup consists of multiple groups or private contacts.

To select a subgroup, do one of the following:

- Press the **Back/Subgroup** key.
- Go to **Menu > Subgroup**, and then select the required subgroup.

Status Indications

LCD Icons

Icon	Radio Status
DM	Direct Mode: The radio transmits and receives directly.
TM-DW	Trunking Mode - Digital Wide: The radio operates under multiple BSs connected through the network.
TM-DL	Trunking Mode - Digital Local: The radio operates under a single BS.
	The Mode Auto Switch feature is enabled.
	The number of bars indicates the charge left in the battery.
	There is no signal in conventional or TM-DW mode.
	The number of bars indicates the signal strength in conventional or TM-DW mode.
	There is no signal in TM-DL mode.
	The number of bars indicates the signal strength in TM-DL mode.
	The radio is set at low power.

Icon	Radio Status
	The radio is set at high power.
	The radio is scanning or hunting.
	The radio is in emergency mode.
	There is/are unread short message(s).
	The Inbox is full.
	A private call is in progress or a private contact is on the contact list.
	A group call is in progress or a group contact is on the contact list.

For details on other LCD Icons, refer to the *User Manual*.

LED Indications

LED Indicator	Radio Status
Flashes green	The radio is being turned on.
Flashes green slowly	The radio is standby in trunking mode.
Glow green	The radio is receiving.
Glow red	The radio is transmitting.
Flashes red	The calling radio is establishing a call in trunking

LED Indicator	Radio Status
	mode.
Flashes orange slowly	The radio is scanning, hunting, or roaming.
Flashes orange rapidly	- Conventional mode: The radio is working in emergency mode. - Trunking mode: The called radio is establishing a Full Off Air Call Set-Up (FOACSU) call.
Glow orange	Call hang time: No voice is being transmitted or received on the channel during a call. Within such a period, you can press and hold the PTT key and speak.

Call Services

When you are speaking during a call, keep the microphone about 2.5 to 5 cm away from your mouth. This ensures optimal voice quality on the receiving radio.

Call on Digital Channel

You can initiate or receive the following types of calls on a digital channel:

- Group call: a call from an individual user in a group to all the other members in the group
- Private call: a call from an individual user to another individual user

Initiating a Call

Conventional Mode

- On the home screen, rotate the **Channel Selector** knob to select the channel, and then press and hold the **PTT** key to initiate a call to the contact preset for the current channel.
- Go to **Menu > Contact > Contact List / Favorites**, select the group contact or private contact, and then press and hold the **PTT** key.
- Go to **Menu > Contact > Manual Dial**, press , enter the required Group ID or Private ID, and then press and hold the **PTT** key.

Trunking Mode



NOTE

If the radio is not registered or attached, or an empty group is selected, you cannot initiate a call.

- On the home screen, rotate the **Group Selector** knob to select the group contact or private contact, and then press and hold the **PTT** key.
- Press the **Back/Subgroup** key or go to **Menu > Subgroup**, select the group contact or private contact, and then press  or press and hold the **PTT** key.
- Go to **Menu > Contact > Private Contact / Favorites**, select the group contact or private contact, and then press  or press and hold the **PTT** key.

Receiving a Call

Conventional Mode

You can listen to an incoming group call without any operation.

You can listen to an incoming private call without any operation.

Trunking Mode

You can listen to an incoming group call without any operation.

When receiving an Off Air Call Set-Up (OACSU) private call, you can listen to it without any operation. When receiving a FOACSU private call, press  or press and hold the **PTT** key within the preset time to answer the call.

Ending a Call

Conventional Mode

A call automatically ends when the call hang time expires.

Trunking Mode

A group call ends when the calling party presses the **End** key or the preprogrammed **Clear Down** key.

A private call ends when the calling or the called party presses the **End** key or the preprogrammed **Clear Down** key.

Call on Analog Channel (Conventional Only)

Call Without Signaling

On an analog channel without signaling, you can initiate a call to all the other users on the channel. Do as follows:

1. Rotate the **Channel Selector** knob to select the required channel.
2. Press and hold the **PTT** key, and speak into the microphone.

Call With Signaling

On an analog channel with signaling, you can initiate a call to a specific contact on the channel. Do as follows:

1. Rotate the **Channel Selector** knob to select the required channel.
2. Press the **OK/Menu** key, and go to **Contact > Contact List**.
3. Select the target contact.
4. Press and hold the **PTT** key, and speak into the microphone.

Emergency Call

In case of an emergency, you can initiate an emergency call to ask for help from other personnel or the control centre.

This feature needs to be configured and enabled by your dealer. For details, refer to the Using the Emergency Feature section in the *User Manual*.

Message Services

The Message feature allows you to send and receive the following types of messages in trunking mode or on a digital channel in conventional mode:

- New messages: messages created using the keypad
- Quick text messages: frequently used messages predefined by your dealer and editable
- Status messages (trunking only): frequently used messages predefined by your dealer and not editable

Viewing Messages

To view newly received messages on the home screen, directly press the **OK/Menu** key.

If the Display Received Message Content feature is enabled by your dealer, the radio displays the content of message received on the screen automatically.

To view received messages from the InBox, sent messages, or saved messages, do as follows:

1. Go to **Menu > Message > InBox / OutBox / Drafts > Inbox List / Outbox List / Drafts List**.
2. Select the required message.

Sending a Message

Sending a New Message

1. Go to **Menu > Message > New Msg**, and then type the text using the keypad.
2. Press the **OK/Menu** key, and then select **Send**.
3. Select the target contact, and then press the **OK/Menu** key.



NOTE

Instead of directly sending the new message, you can also select **Save** in conventional mode or select **Save to Drafts** or **Save to QuickText** in trunking mode to save the new message, and send it later.

Sending a Quick Text Message

1. Go to **Menu > Message > Quick Text**, and then select the required quick text message.
2. (Optional) Edit the message, and then press the **OK/Menu** key.
3. Select **Send**, and then select the target contact.
4. Press the **OK/Menu** key.

Sending a Status Message

1. Go to **Menu > Message > Status Msg**, and then select the required status message.
2. Press the **OK/Menu** key, and then select the target contact.
3. Press the **OK/Menu** key.



NOTE

You can send status messages via manual dialling. Consult your dealer for more information.

Deleting a Message

To delete a message from the InBox, OutBox, or Drafts, do as follows:

1. Go to **Menu > Message > InBox / OutBox / Drafts > Inbox List / Outbox List / Drafts List**.
2. Select the required message, and then press the **OK/Menu** key.
3. Select **Delete**, and then press the **OK/Menu** key.

To delete all messages from the InBox, OutBox, or Drafts, do as follows:

1. Go to **Menu > Message > InBox / OutBox / Drafts**.
2. Select **Delete All**, and then press the **OK/Menu** key.

In trunking mode, you can go to **Menu > Message > Quick Text** to delete quick text messages.

For details on more features and operations, please visit our website at: <http://www.hytera.com>, or scan the QR code to download the *User Manual*.





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