Hytera

INTRINSICALLY SAFE DIGITAL PORTABLE RADIO

Preface

Thanks for your favor in our product. This manual is helpful for you to quickly know how to use the product. Please refer to the corresponding Feature Book for detailed features and operations.

This manual is applicable to the following product:

PD782i Intrinsically Safe Digital Trunking Portable Radio

Disclaimer

Hytera Communications Co., Ltd. (the Company) endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and designs are subject to change without notice due to continuous technology development. No part of this manual may be copied, modified, translated, or distributed in any manner without the express written permission of us.

We do not guarantee, for any particular purpose, the accuracy, validity, timeliness, legitimacy or completeness of the Third Party products and contents involved in this manual.

If you have any suggestions or would like to learn more details, please visit our website at: http://www.hytera.com.

RF Radiation Information

This product must be restricted to operations in an occupational/controlled RF exposure environment. Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

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 not more than 50% of the time and always adhere to the following procedures:

- RF energy will be generated only when the radio is transmitting.
- The radio must be 2.5 centimeters away from human body when transmitting.

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.

Intrinsically Safe Radio Information (Exi)

Equipment marking

SGS

I.S Class I, II,III, Division 1, Group C,D,E,F,G ,T4

NI Class I, Division 2, Group A,B,C,D

-30℃ to +55℃

Certificate Number

USTC/13/FAI/01689

No Misoperations

Stop operating this product and leave the explosive atmosphere immediately when the safety or integrity of the product is endangered, and deliver it to your local dealer for examination.

These items may endanger the product's safety or integrity:

- The radio is stored improperly;
- The radio is faulty;
- The radio works with overload;
- The radio's operational error or threshold value is out of allowed range.
- The radio is damaged during transportation;
- The radio's housing is obviously damaged or cracked;
- The radio logo or model is hard to be recognized;

Safety Instructions

> ⚠ **Caution :** To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

- Use only the Ex-battery BL2411-Ex specified by the Company. The use of other batteries may result in Ex-protection (intrinsic safety) failure.
- Charge the battery in a non-hazardous area only with the designated charger.
- Do not remove the battery from the radio in a hazardous area.
- Do not carry any standby battery into a hazardous area.
- Use the accessories specified by the Company only. Do not replace the accessories in a hazardous area.
- Do not use a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn may result.
- Do not expose the radio to direct sunlight for a long time, nor place it close to a heating source.
- Hold the radio upright and keep its microphone 2.5 to 5 centimeters away from your mouth during use.
- If you wear a radio on your body, ensure its antenna is at least 2.5 centimeters away from your body during transmission.
- Do not attempt to repair and service the radio, batteries and its accessories. Please contact your dealer for repair and servicing.
- Do not dissemble or redo the radio. Unauthorized modification of the radio may result in termination of Ex-protection (intrinsic safety) of the radio.
- Improper usage of the product other than it is intended to be used for will impair safety of the product, yourself and surrounding environment.
- Do not carry the radio into Zone 0 and 20. Please do not use the radio out of the operating temperature range specification of this product.

Specifications

Item	Specifications
Rated Operating Voltage	DC 7.4V
Max. Operating Voltage	DC 8.4V
Max. Operating Current	2.7A
Dimensions (H * W *D) (with standard battery, without antenna)	125*55*43mm
Weight (with standard antenna & battery)	About 369g
Sensitivity	0.3μV
Rated Audio Power Output	0.5W
Audio Distortion	3%
Ambient Temperature	-30℃ to +55℃
Storage Temperature	-40℃ to +85℃
Charging Temperature	0℃ to +40℃
Battery	Ex-battery BL2411-Ex (2400mAh)
Charging Time	About 4 hours

Compliance Standards
- UL 913 5th Ed. February 21,1997
- CSA C22.2 No. 157-92 (R2012) +UPD1 +UPD2

Informations sur la Radio intrinsèquement sûre (Exi)

Marquage de l'équipement

SGS

I.S Classe I, II, III, Division 1, Groupe C,D,E,F,G ,T4

NI Classe I, Division 2, Groupe A,B,C,D

-30 ℃ à +55 ℃

Numéro de certificat

USTC/13/FAI/01689

Mauvaises utilisations à éviter

Arrêtez d'utiliser ce produit et quittez l'atmosphère explosive immédiatement si la sécurité ou l'intégrité du produit sont compromises, puis retournez-le à votre revendeur local pour vérification.

Voici la liste des éléments susceptibles de compromettre la sécurité ou l'intégrité du produit :
- La radio n'est pas stockée correctement.
- La radio est défaillante.
- La radio fonctionne en surcharge.
- La valeur de seuil ou d'erreur de fonctionnement de la radio se trouve en dehors de la plage autorisée.
- La radio est endommagée au cours du transport.
- Le boîtier de la radio est visiblement endommagé ou fendillé.
- Le logo ou le modèle de la radio sont difficilement reconnaissables.

Instructions de sécurité

> ⚠️ **Avertissement :** Pour vous protéger contre la perte de biens, les blessures corporelles ou même les risques mortels, assurez-vous de suivre les instructions de sécurité suivantes :

- N'utilisez que la batterie Ex BL2411-Ex spécifiée par l'Entreprise. L'utilisation d'autres batteries peut entraîner une défaillance de la protection Ex (sûreté intrinsèque).
- Chargez uniquement la batterie dans une zone ne présentant aucun risque, à l'aide du chargeur prévu à cet effet.
- Ne retirez pas la batterie de la radio dans une zone à risques.
- Ne transportez pas de batterie de rechange dans une zone à risques.
- Utilisez uniquement les accessoires spécifiés par l'Entreprise. Ne remplacez pas les accessoires dans une zone à risques.
- N'utilisez pas une antenne endommagée. Si une antenne endommagée entre en contact avec votre peau, vous risquez des brûlures superficielles.
- N'exposez pas la radio à la lumière directe du soleil pendant une période prolongée. Ne la placez pas à proximité d'une source de chaleur.
- Tenez la radio en position verticale et gardez le micro à une distance de 2,5 à 5 cm de votre bouche pendant son utilisation.
- Si vous transportez une radio, assurez-vous que son antenne se trouve à une distance minimale de 2,5 cm de votre corps au cours de la transmission.
- N'essayez pas de réparer et d'entretenir la radio, les batteries et les accessoires. Veuillez contacter votre revendeur pour la réparation et l'entretien.
- Ne démontez pas la radio, ne la modifiez pas. Toute modification non autorisée de la radio peut compromettre la protection Ex (sûreté intrinsèque) de la radio.
- Une utilisation incorrecte du produit, autre que dans le cadre de l'utilisation prévue, peut compromettre la sécurité du produit, votre sécurité et celle de votre environnement.
- Ne transportez pas la radio dans des zones 0 et 20. Veuillez ne pas utiliser la radio en dehors des plages de température de fonctionnement spécifiées pour ce produit.

Spécifications

| Élément	Spécifications
Tension nominale de fonctionnement	7,4 V CC
Tension maximum de fonctionnement	8,4 V CC
Intensité maximum de fonctionnement	2,7 A
Dimensions (H×L×P) (avec batterie standard, sans antenne)	125×55×43 mm
Poids (avec antenne et batterie standards)	Environ 369 g
Sensibilité	0,3 µV
Puissance nominale de sortie audio	0,5 W
Distorsion audio	3 %
Température ambiante	-30℃ à +55 ℃
Température de stockage	-40℃ à +85 ℃
Température de charge	0℃ à +40 ℃
Batterie	Batterie Ex BL2411-Ex (2 400 mAh)
Durée de chargement	Environ 4 heures

Normes de conformité

- UL 913 5e éd. 21 février 1997
- CSA C22.2 N° 157-92 (R2012) +UPD1 +UPD2

Contents

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.

Radio Unit	Battery	Belt Clip
Antenna	Charger	Power Adapter
Strap	Documentation Kit	
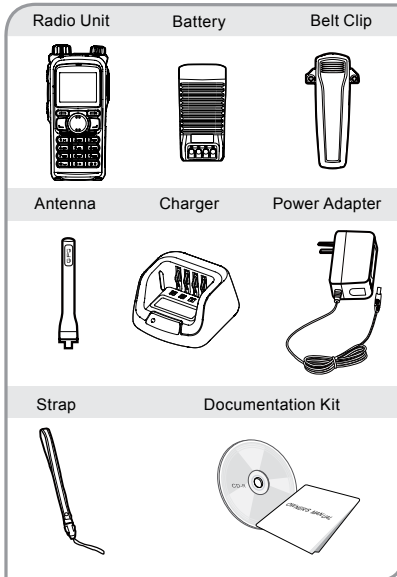
Note: The GPS antenna is the standard accessory for PD78XG. The frequency band is marked on the label of antenna; if not, please refer to the label on the radio for frequency band information.

Product Overview

Product Control
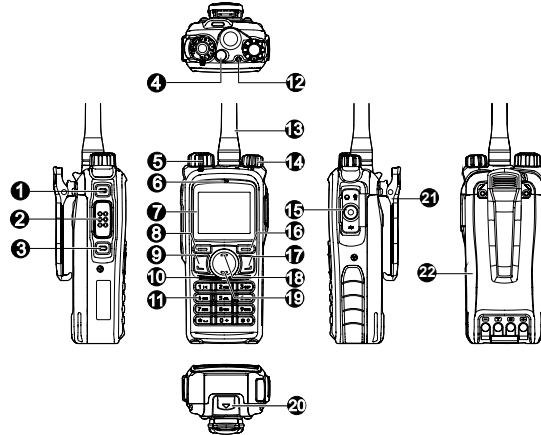
No.	Part Name	No.	Part Name
1	SK1 (Side Key 1)	12	LED Indicator
2	PTT (Push to Talk) Key	13	Antenna
3	SK2 (Side Key 2)	14	Power On-Off/Volume Control Knob
4	TK (Top Key)	15	Accessory Connector
5	Group Call Selector knob	16	Back/Subgroup Key
6	Microphone	17	BackDial/End/Home Screen Key
7	LCD Display	18	Up Key
8	OK/Menu Key	19	Down Key
9	Answer/Redial/Call Key	20	Battery Latch
10	Speaker	21	Belt Clip
11	Numeric Keypad	22	Battery

Programmable Keys

For enhanced convenience, you may request your dealer to program the **SK1**, **SK2** and **TK** (⚠) as shortcuts to certain functions. Please refer to the corresponding Feature Book for more details.

⚠ **Caution:** The **TK** is programmed with emergency feature by default (short press: Emergency On; long press: Emergency Off). It is programmable by your dealer.

Before Use

Charging the Battery
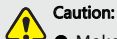
⚠️ **Caution:**
- Make sure the radio is powered off before charging. Read the Safety Information Booklet in advance to get necessary safety information.
- To achieve optimal battery performance, please charge the battery for at least 5 hours before initial use.

Please use the charger specified by the Company to charge the battery. Charging Diagram is listed below.

Charge the Radio
(with battery attached)

Charge the Battery
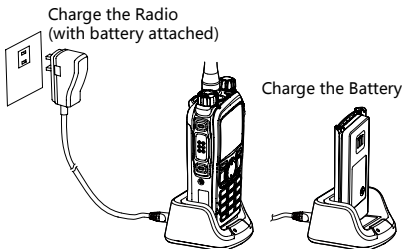
Charging Status Indication (on charger):

LED Indication	Charging Status
The LED Indicator flashes red slowly.	Standby (no load)
The LED Indicator glows red.	Charging
The LED Indicator glows orange.	90% charged
The LED Indicator glows green.	Fully charged
The LED Indicator flashes red rapidly.	Charging failed

Attaching the Battery

"Click"
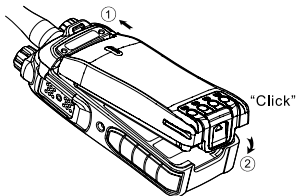
📝 **Note:** To remove the battery, turn off the radio first. Then slide the battery latch upwards to unlock the battery and remove it.

Checking the Battery Power

You may check the current battery power by holding down the programmed **Battery Power Indicator** key preset by your dealer. And release the key to exit. Battery power indications are listed below:

LED Indication	Icon	Battery Power
The LED Indicator glows green.	🔋	High
The LED Indicator glows orange.	🔋	Medium
The LED Indicator glows red.	🔋	Low
The LED Indicator glows red and low battery alert beeps.	🔋	Under the low battery threshold. Please recharge or replace the battery for proper radio operation

Attaching the Antenna

Turn the antenna clockwise to fasten it.

⚠️ **Caution:** Do not hold the radio by its antenna, otherwise the performance and lifespan of the antenna will be reduced.

Attaching the Belt Clip

1. Loosen the screws from the back of the radio.
2. Align the screw holes of the belt clip with those on the radio's back, and then tighten the screws.
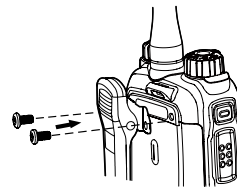
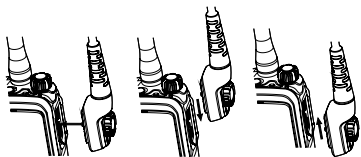

Attaching the Accessories
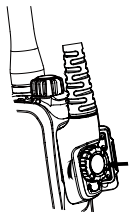
1. Open the accessory connector cover as shown below.

2. Align the accessory (such as an audio accessory, or a programming cable) plug with the accessory connector.

> ⚠️ **Caution:** Do not scrape the silicone rubber surrounding the accessory connector screw hole, in order to ensure the waterproof performance of the radio.

3. Tighten the screw on the accessory plug.

Status Indication

LCD Icon

Icon Name	Icon	Radio Status
GPS Icon	🅢	The GPS feature is enabled, and valid GPS data is received.
	🌙	The GPS feature is enabled, but no valid GPS data is received.
TX Power Icon	L	Low TX power.
	H	High TX power.
Accessory Icon	🔌	An accessory is connected.
Operation Mode Icon	TM	Trunking Mode Operation: In this mode, this radio communicates with other radios via the trunking system.
Roam Icon	🔀	The radio is roaming.
Hunt Icon	↻	Hunt status. This icon does not indicate the background hunt, homestation hunt and multi-site handover.
VOX Icon	Ⓥ	The VOX feature is enabled.
Message Icon	✉	Unread message(s).
	✉	Inbox is full.
RSSI Icon	📶x	No signal.
	📶 📶 📶 📶 📶	More bars indicate better signal strength.
Knob Operation Mode Icon	📶	The knob operates in group call selection mode.
	🔊	The knob operates in volume adjustment mode.

Speaker Icon	🔊	The speaker is unmuted.
LQO Icon	Ⓠ	The LQO feature is enabled.
Call/Contact Icon	👤	● Indicates Private Call during a call. ● Indicates Private Contact in the contact list.
	👥	● Indicates Group Call during a call. ● Indicates Group Contact in the contact list.

LED Indicator

LED Indication	Radio Status
The LED indicator flashes green.	Powering on.
The LED indicator flashes green slowly.	Standby.
The LED indicator glows green.	Receiving.
The LED indicator glows red.	Transmitting.
The LED indicator flashes red.	Establishing a call (the LED indicator on the calling radio flashes).
The LED indicator flashes orange rapidly.	Establishing a FOACSU private call (the LED indicator on the called radio flashes).
The LED indicator flashes orange slowly.	Hunting.
The LED indicator glows orange.	Call hung. During a call, you can hold down the **PTT** key to talk to the other party before the call hang time expires.

Menu Navigation

The following menu structure shows all the customizable menu items, which can be programmed by your dealer as per your actual requirements.

In the home screen, press the **Menu** key to enter the main menu, use the **Up/Down** key to navigate the menu items, and then press the **OK** key to confirm your selection. This manual only provides a menu path when instructing menu operations, for example, to access the contact list, go to "Contact -> Contact List".

The radio supports menu reset function. When you do not operate the menu for a preset time period configured by the dealer, the radio will automatically return to the home screen. You may request the dealer to change the auto reset time or disable the feature.
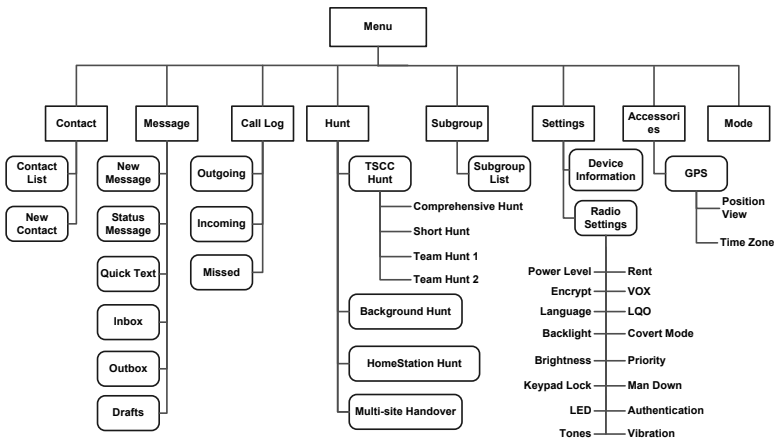
Basic Operation

Powering On/Off
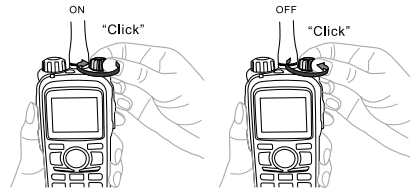
Registering upon Power-on

The radio will activate hunt and then make a registration automatically upon power-on.

TSCC Hunt

Before registering, the radio will hunt through the control channels for available base stations.

The radio will start hunting automatically after powering on. There are two hunt plans: Fixed Control Channel and Flexible Control Channel. Please refer to the corresponding Feature Book for details. You can set the appropriate plan for your radio via your dealer.

> **Note:** During hunting, the radio displays "Registering, Please Wait!" with the icon ↻ , and the LED indicator flashes orange slowly.

Registration

When hunting signals of the base station, the radio determines whether the base station allows it to register. After registering successfully, the radio will display "Registered Successfully!" on the LCD. Then it is ready for communication. If you want the radio to register with another base station, press the programmed **Manual Current Hunt** key to hunt again.

Adjusting the Volume

You can adjust the volume of output voice, side tone and channel notification tone by rotating the **Volume Control Knob**. For other tones, the volume will be configured by the dealer.

Inputting via Keypad

You can input alias, call numbers and messages via the keypad of the radio. Besides, you may need to do the following during inputting.

● To switch input method: `# ↑`
● To input special characters: `1 !<`
● To input space: `* ␣`

Locking/Unlocking the Keypad

When the keypad is not in use, you can lock the keypad to avoid mishandling. You can lock or unlock the keypad through any of the following methods:

● Key Combination: Press the **OK** key and then press `* ␣` .
● Programmable Key: Press the programmed **Keypad Lock** key preset by your dealer.
● Menu Navigation: Go to "Settings -> Radio Settings -> Keypad Lock" to enable or disable the feature.

  » Enable: The keypad will be locked automatically if there is no radio operation within the preset time. After this feature is enabled, you can press the **Up/Down** key to set the Keypad Auto Lock Delay Time.
  » Disable: The keypad will not be locked automatically. However, you can lock or unlock the keypad via the key combination or **Keypad Lock** key mentioned above.

Selecting a Subgroup

You can include your desired group call contacts into a subgroup for efficient management.

To select a subgroup: Go to the menu "Subgroup" via the **Menu** or **Subgroup** key, then use the **Up/Down** key to select an appropriate subgroup. Afterwards, select the option "Set as Default" and press the **OK** key to switch to that subgroup.

Selecting a Group Call Contact

After the radio is registered, you may select a group call contact through any of the following methods:

● Via the knob: Rotate the **Group Call Selector Knob** to select your desired group call contact. An audio alert will be given in case of no group call contact preset for this knob.
● Via the menu: Go to the menu "Subgroup" via the **Menu** or **Subgroup** key, then use the **Up/Down** key to select your desired subgroup. Afterwards, select "Member" and use the **Up /Down** key to select your desired group call contact.
● Via the shortcuts: You can press the programmed **Group Call List** key to access the group call list, and select the group call contact by pressing the **Up/Down** key.

Managing the Contact

You can manage the contacts via the "Contact" menu.

Contact List

The Contact List is used to save Private Call contacts information. You can access the "Contact List" menu via the "Contact" menu or by pressing the programmed **Contact List** key.

In the "Contact List" menu, you can check the contact information, edit or delete the private contacts.

New Contact

You can add and save a new contact to the contact list. The number and alias of a new contact must be unique. For the contact number range, please refer to "Dial Scheme" in the corresponding Feature Book.

Call Services

After the radio is powered on and registered, you can make and receive calls. To ensure optimal volume of the receiving radio, keep the microphone about 2.5 to 5 centimeters away from your mouth when transmitting.

Private Call

There are two ways to answer the private call: FOACSU (Full Off Air Call Set-Up) and OACSU (Off Air Call Set-Up). The specific way is decided by the settings made for the called radio via the network management application.

● FOACSU: Both the calling radio and called radio ring before the called party answers the call manually.
● OACSU: The call is put through directly without any indication from either the calling radio or called radio.

Initiating a Private Call

When initiating a private call, the radio will display the icon. And the radio will keep ringing until the called party answers this call. After a private call is established, either of the calling or called party can hold down the **PTT** key to talk while the radio displays "PTT Enable" on the LCD.

You can make a private call through the following ways:

Contact List or Call Log

1. Go to "Contact -> Contact List" or "Call Log".

2. Use the **Up/Down** key to select an appropriate contact.
3. Press or hold down the **PTT** key to initiate a private call.

ReDial or BackDial Call Log

1. In the home screen, press to enter the ReDial Call Log or press to access the BackDial Call Log.
2. Use the **Up/Down** key to select an appropriate contact.
3. Press or hold down the **PTT** key to initiate a private call.

Manual Dial

1. In the home screen, input a private call number using the keypad.
   For the dial rules, please refer to "Dial Scheme" in the corresponding Feature Book.
2. Press , or hold down the **PTT** key to initiate a private call.

Missed Call Screen

Hold down the **PTT** key in the "Missed Call" screen to directly call back the last missed private call contact. Also you can press or hold down the **PTT** key to call back when viewing that call number.

Receiving a Private Call

● FOACSU Private Call
   When a private call is received, the radio will give ring indication and display the icon on the LCD as well. You may press or hold down the **PTT** key within the preset time period to answer the call. After the call is established successfully, the radio will give ring indication and display the icon on the LCD as well. If you don't answer this

call, the radio will display the icon to remind you.
● OACSU Private Call
   The call is established automatically. The radio will display the icon on the LCD when this call is established successfully.

Voice Communication

After a private call is established, either of the calling or called party can hold down the **PTT** key to talk while the radio displays "PTT Enable" on the LCD. The radio will display the icon during transmission and the icon upon receipt respectively.

End of Communication

The call will be terminated when any of the following situations occurs:

● Neither party holds down the **PTT** key to speak before the preset time period expires.
● The call duration exceeds the time preset by the dealer.
● Either of the parties hangs up during a call.
● The base station signal is lost.
● Either of the parties selects an empty group via the **Group Call Selector Knob.**
● A pre-emptive call or an emergency call occupies the channel.

Group Call

The group call includes general group call and broadcast group call. In a general group call, both the calling party and the called party can talk. However, during a broadcast group call, only the calling party can talk while the called party can receive voice only. The radio cannot make a broadcast group call unless the dealer authorizes it. Here we only introduce the general group call.

As these two types of group calls have the same operations in general, we will only give a note in the following introductions when there are differences.

Initiating a Group Call

When initiating a group call, the radio will display the icon 🔵. You can make a group call through the following ways. The operation is similar to initiating a private call.

Preset Contact

In the home screen, hold down the **PTT** key to initiate a group call to the group call contact the **Group Call Selector Knob** turns to.

Group Call Contact

1. In the home screen, press the **Menu** key and then select the "Subgroup" menu, or directly press the **Subgroup** key to enter the "Subgroup" menu.
2. Go to "Subgroup -> Members".
3. Use the **Up**/**Down** key to select an appropriate contact.
4. Press ⌐ or hold down the **PTT** key to initiate a general group call.

> **Note:** To make a broadcast group call, you can select the "Broadcast Group Call" as the "Call Type", and press the **OK** key, ⌐ or hold down the **PTT** key to make a call.

ReDial or BackDial Call Log

1. In the home screen, press ⌐ to enter the ReDial Call Log or press ⌐ to access the BackDial Call Log.
2. Use the **Up**/**Down** key to select an appropriate contact.
3. Press ⌐ or hold down the **PTT** key to initiate a general group call.

Manual Dial

1. In the home screen, input a group call number using the keypad.
   For the dial rules, please refer to "Dial Scheme" in the corresponding Feature Book.
2. Press ⌐ , ⌗ or hold down the **PTT** key to initiate a group call.

Receiving a Group Call

When receiving a group call, the radio will establish it automatically. After the call is established successfully, the radio will give ring indication and display the icon ✅ on the LCD as well.

Voice Communication

● General Group Call: After a group call is established, either of the calling or called party can hold down the **PTT** key to speak while the radio displays "PTT Enable" on the LCD. The radio will display the icon 🔵 during transmission and the icon 🔵 upon receipt respectively.

● Broadcast group call: After the call is established, only the calling party can talk by holding down the **PTT** key. During transmission, the calling radio will display the icon 🔵 on the LCD. The called party can only receive the voice.

Late Entry

With the Late Entry feature, a group member can join an in-progress group call without any operation.

The Late Entry feature is designed for the following situations:

● The radio moves within the coverage area after the group call is established.
● The radio is turned on after the group call is established.

● The radio is busy with other call services when the group call is established. After such other call services end, this group call is still in progress.
● The signal of the base station recovers after the group call is established.
● The radio is added to the group after the group call is established.

End of Communication

The call will be terminated when any of the following situations occurs:

● Neither party holds down the PTT key to talk before the preset time period expires. (except in the broadcast group call)
● The call duration exceeds the time preset by the dealer.
● The calling party ends the in-progress call (if the called party ends the call, the called radio will exit on its own only, and can rejoin via Late Entry feature).
● The base station signal is lost.
● A pre-emptive call or emergency call occupies the channel.

Emergency Call

In case of emergency, you can use this feature to ask for help from your companion or the control center. The Emergency Call has the highest priority which can terminate the ongoing calls with lower priorities on the current channel. You can make emergency call even when your radio is transmitting or receiving.

This feature needs to be configured and enabled by your dealer. Please refer to the corresponding Feature Book for details.

Message Services

This feature allows you to edit and send a new message, to directly send a quick text message and to forward the messages in the Inbox, Outbox and Drafts.

Message

1. Go to "Menu -> Message -> New Message" to enter the relevant screen.
2. Type the text and then press the **OK** key. Save it to Drafts, or send it to a private call contact or a group call contact.
3. Select the contact or input the contact number manually.
4. Press the **OK** key to send the message. When the message is sent successfully, the radio will display the prompt "Send Success!".

You can send the Quick Text or status messages, and forward the message saved in the Inbox, Outbox or Drafts. See the detailed introductions of the submenus of Message respectively.

Quick Text

Quick Text are frequently used messages preset by your dealer. You can choose to edit and send any entry.

Status Message

Status message is a quick message. Only code rather than the message text is transmitted, to ensure privacy of the communications. Status messages are configured by your dealer. You can check and send the preset status messages, but cannot modify or delete them.

Inbox

The radio saves the received messages into the Inbox

and marks every message with a corresponding icon to indicate its status.

- ● : Read message
- ● : Unread message
- ● : Read status message
- ● : Unread status message

When it is full, the radio will display the icon ,

and the earliest message will be overwritten by the latest one automatically.

Outbox

The radio saves the sent messages into the Outbox and marks every message with a corresponding icon to indicate its status.

- ● : The message is sent successfully
- ● : The message is not sent successfully. In this case, you can resend it.
- ● : Status message is sent successfully.
- ● : Status message is not sent successfully. In this case, you can resend it.

When the Outbox is full, the earliest message will be overwritten by the latest one automatically.

Drafts

The radio save the edited messages into the Drafts. When the Drafts is full, the earliest message will be overwritten by the latest one automatically. After the message in the Drafts is sent successfully, it will be removed from the Drafts and be saved into the Outbox. If not sent successfully, the message will be saved into the Drafts and the Outbox.

Troubleshooting

Phenomena	Analysis	Solution
The radio fails to power on.	The battery may be improperly installed.	Remove the battery and then reattach it.
	The battery power may be used up.	Recharge or replace the battery.
	The battery may be poorly connected due to dirtied or damaged battery contacts.	Clean the battery contacts. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
The radio cannot make a registration.	The radio may not detect signals from the base station.	Make sure the radio is within the coverage of the base station.
	The radio may be unauthorized.	Contact the base station manager to check whether the radio is authorized in the network management system.
The radio registers repeatedly.	The signal may be discontinuous.	Make sure the radio is within the coverage of the base station.
The radio cannot establish a call.	The signal may be poor.	Make sure the radio is within the coverage of the base station.
No voice is heard after a call is established.	The radio ID may be repeated.	Contact the base station manager to check whether the radio ID is repeated in the network management system.
The called party disconnects repeatedly during communication.	The signal may be discontinuous.	Make sure the radio is within the coverage of the base station.
During receiving, the voice is weak, discontinuous or totally inactive.	The battery voltage may be low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume by rotating the **Power On-Off/Volume Control Knob** clockwise, or request your dealer to disable the Digital MIC AGC feature.
	The antenna may be loosened or improperly installed.	Reattach the antenna after turning off the radio.
	The speaker may be blocked or damaged.	Clean the surface of the speaker. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
You cannot communicate with other members.	The signal may be poor.	Make sure you and the group members are within the communication range.
The voice is unclear.	The signal may be poor.	Make sure you and the group members are within the communication range.
The noise is too loud.	The signal may be poor.	Make sure you and the group members are within the communication range.
	You may locate in an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.	Move to an open and flat area, and restart the radio to try again.
	You may suffer from external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.
You cannot use the keys.	The keypad may fail to function temporarily.	Restart the radio.
The LCD does not display any information.	The LCD may fail to function temporarily.	Restart the radio.

If the above solutions cannot 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 corrosive environments.
- Do not hold the product by its antenna or earpiece cable directly.
- Attach the accessory connector cover when the accessory is not in use.

Product Cleaning

⚠ **Caution:** Turn off the product and remove the battery before 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.

Optional Accessories

The following items are the main optional accessories for the radio. For more information of other accessories, please consult your local dealer.

⚠ **Caution:** Use the accessories specified by the Company only. If not, the Company shall not be liable for any loss or damage arising out of use of unauthorized accessories.

Accessory Type	Model/Name
Power Supply	● CH10A06 Dual Pocket MCU Charger Kit (for Li-ion/Ni-MH Batteries) ● MCA05 Battery Optimizing System ● MCA06 MCU Multi-unit Rapid-rate Charger ● MCA08 MCU Multi-unit Charger(for Thick Battery)
Audio	● EHN16：Detachable C-Earset ● EHN17：Detachable and swivel Earset ● EAN23：Detachable Earpiece with Transparent Acoustic Tube ● ESN12：Detachable Earbud ● SM18N2：Waterproof remote speaker microphone(IP67) ● EAN17：3-wire Surveillance Earpiece with Transparent Acoustic Tube(Beige) ● EAN18：3-wire Surveillance Earpiece with Transparent Acoustic Tube(Black) ● ES-01：Receive － Only Earbud ● ES-02：Receive-Only Earpiece with Transparent Acoustic Tube ● EH-01：Receive － Only C Style Earloop ● EH-02：Receive － Only Ajustable Earhook with Swivel Speaker ● ACN-01：PTT&MIC cable(for use with Receive-Only Earpiece)
Others	● LCY006 Carrying Case (Thick Battery)(Leather)(Swivel) ● POA38 Li-ion/Ni-MH Battery Adapter for PD782i Series

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