

## Preface

Thanks for your favor in our product. This manual is helpful for you to quickly know how to use the product.

This manual is applicable to the following product:

PD36Xi Digital Portable Radio

(X may represent 2, 5, 6 or 8)

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<http://www.hytera.com>.

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a different circuit to that of the receiver's outlet.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **Compliance with RF Exposure Standards**

Hytera's radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR § 1.1307, 1.1310 and 2.1093
  - American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1:2005; Canada RSS102 Issue 5 March 2015
- Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005 Edition

## **RF Exposure Compliance and Control Guidelines and Operating Instructions**

To control your exposure and ensure compliance with the occupational/controlled environmental exposure limits, always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) key. To receive calls, release the PTT key. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy only when transmitting (in terms of measuring for standards compliance).
- Keep the radio unit at least 2.5 cm away from the face. Keeping the radio at the proper distance is important as RF exposure decreases with distance from the antenna. The antenna should be kept away from the face and eyes.









- When worn on the body, always place the radio in a Hytera-approved holder, holster, case, or body harness or by use of the correct clip for this product. Use of non-approved accessories may result in exposure levels which exceed the FCC's occupational/controlled environmental RF exposure limits.
- Use of non-approved antennas, batteries, and accessories causes the radio to exceed the FCC RF exposure guidelines.
- Contact your local dealer for the optional accessories of the product.

## **EU Regulatory Conformance**

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the following directives: 2014/53/EU, 2006/66/EC, 2011/65/EU, and 2012/19/EU.

Please note that the above information is applicable to EU countries only.



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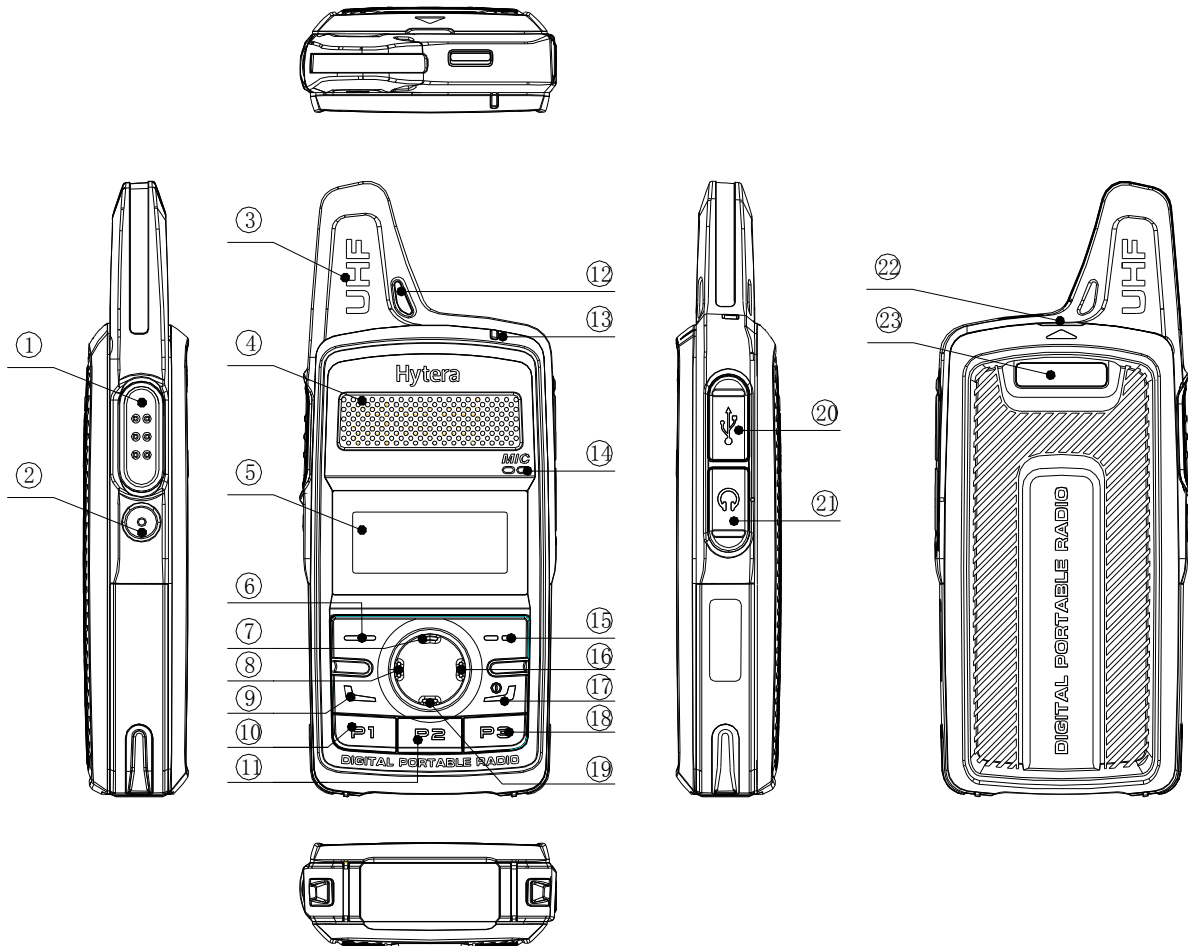
# 1. Items in the Package

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

		
<b>Radio Unit</b>	<b>Battery</b>	<b>Power Adapter</b>
		
<b>Belt Clip</b>	<b>Strap</b>	<b>Documentation Kit</b>

# 1. Product Overview

## 1.1 Product Controls



No.	Part Name	No.	Part Name
①	PTT (Push-to-Talk) Key	⑬	LED Indicator
②	SK1 (Side Key 1)	⑭	Microphone
③	Antenna	⑮	Cancel/Return Key
④	Speaker	⑯	Volume +/-/Right Key
⑤	LCD Display	⑰	Power On/Off/ESC Key
⑥	OK/Menu	⑱	P3



No.	Part Name	No.	Part Name
⑦	Up Key	⑲	Down Key
⑧	Volume -/Left Key	⑳	Charging/Data Connector
⑨	Call Key	㉑	Earpiece Connector
⑩	P1	㉒	Battery Cover Open-up
⑪	P2	㉓	Battery Cover
⑫	Strap Hole		

## 1.2 Programmable Keys

For enhanced convenience, you may request your dealer to program the **SK1**, **P1**, **P2** and **P3** as shortcuts to certain feature.

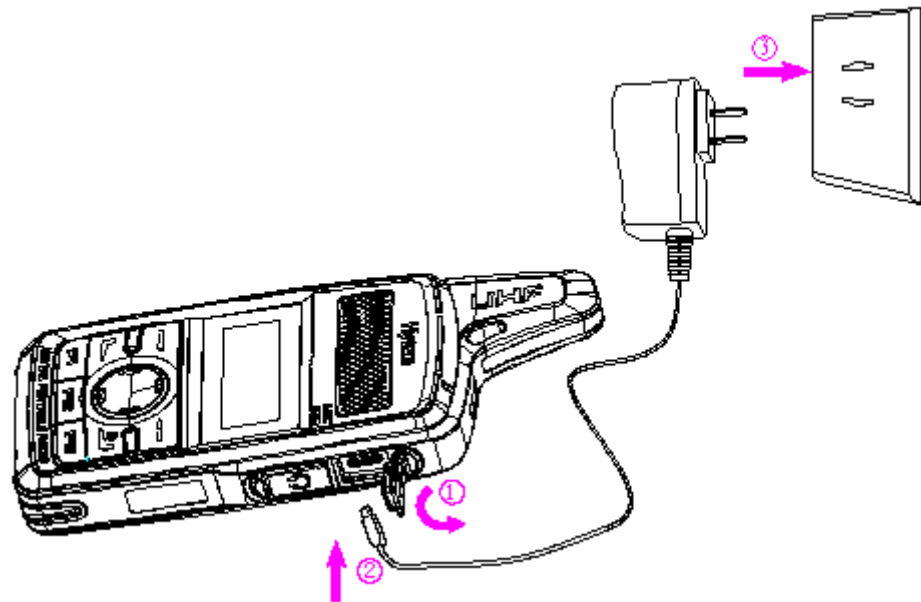
## 2. Before Use

### 2.1 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 power adapter specified by the Company to charge the radio (with battery attached). Charging Diagram is listed below.



Charging Indication:

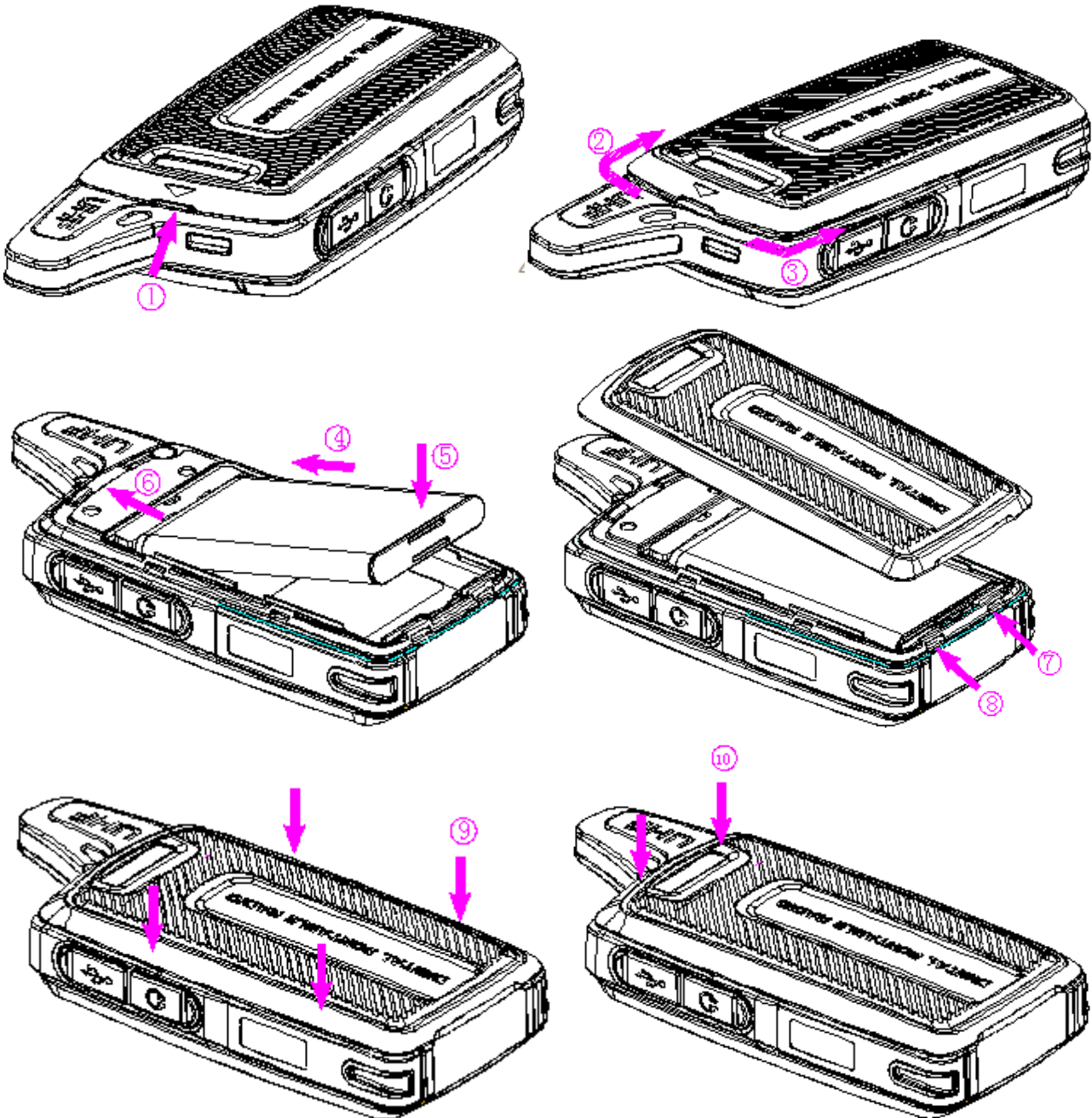
Radio Status	Icon	Charging Status
Power On	Display in a cycle:    	Charging
		Fully charged
Power Off	Display in a cycle:    	Charging
		Fully charged

 **Note:**

Upon being charged after the radio is powered off due to low battery voltage, the radio displays a black screen.

## 2.2 Attaching the Battery

To attach the battery, perform the following steps.

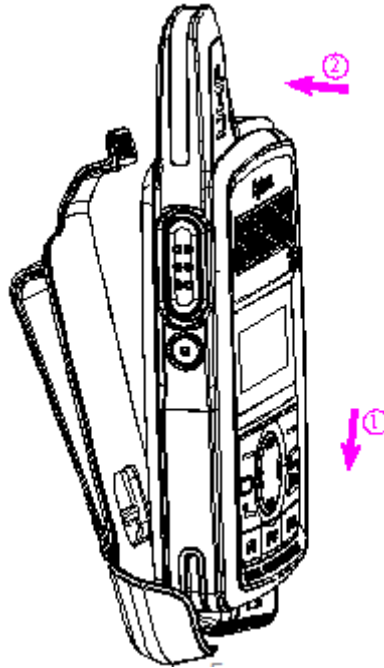


 **Note:**

Turn off the radio before removing the battery.

## 2.3 Attaching the Belt Clip

To attach the belt clip, perform the following steps.

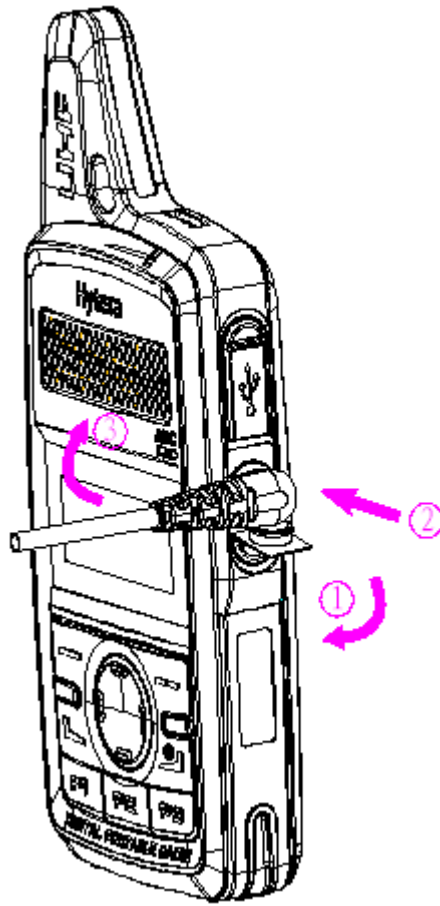


## 2.4 Attaching the Earpiece

**Step 1** Open the connector cover as ① shown.

**Step 2** Align the index of the earpiece with that of the radio and connect the earpiece to the radio as ② shown.


**Step 3** Turn the earpiece clockwise as ③ shown to fasten it.



## 3. Status Indication

### 3.1 LCD Icon

Icon Name	Icon	Radio Status
Battery Power Icon		More bars indicate more battery power.
TX Power Icon		Low power for the current channel.
		High power for the current channel.
Accessory Icon		An accessory is connected.
Operation Mode Icon		Direct Mode Operation: Under this mode, radios can communicate with each other directly.
		Repeater Mode Operation: Under this mode, radios communicate with each other via a repeater.
Monitor Icon		The Monitor feature is enabled.
Scan Icon		The radio is scanning.
		The radio stays on a non-priority channel.
		The radio stays on Priority Channel 1.
		The radio stays on Priority Channel 2.
Missed Call Icon		A call is missed.
Message Icon		Unread message(s).
		Inbox is full.
RSSI Icon		No signal.
		More bars indicate better signal strength.
Speaker Icon		The speaker is unmuted.
Call/Contact Icon		<ul style="list-style-type: none"> <li>Indicates Private Call during a call.</li> <li>Indicates Private Contact in the contact list.</li> </ul>
		<ul style="list-style-type: none"> <li>Indicates Group Call during a call.</li> </ul>

Icon Name	Icon	Radio Status
		<ul style="list-style-type: none"> <li>● Indicates Group Contact in the contact list.</li> </ul>
		<ul style="list-style-type: none"> <li>● Indicates All Call during a call.</li> <li>● Indicates All Call Contact in the contact list.</li> </ul>

### 3.2 LED Indicator

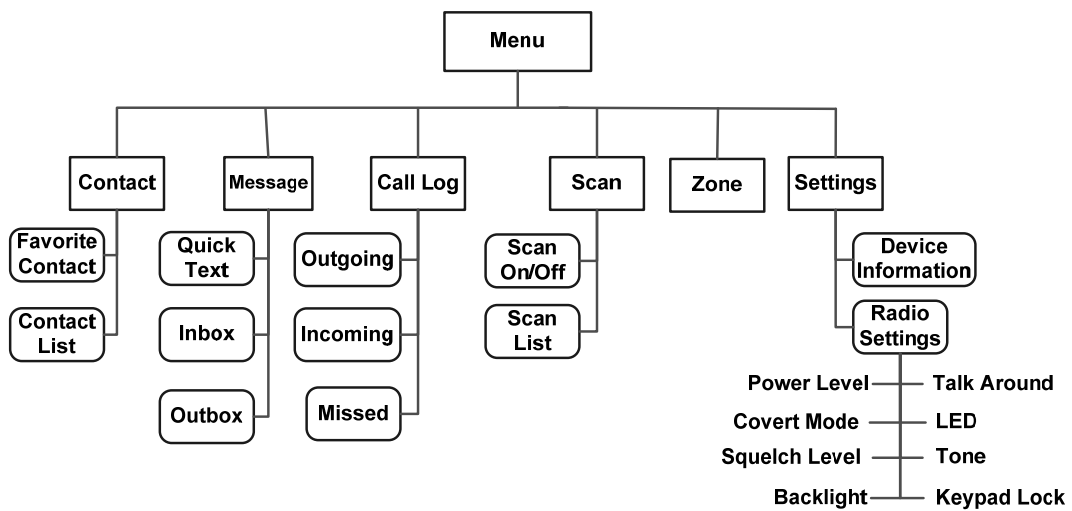
LED Indication	Radio Status
The LED indicator flashes green.	Powering on.
The LED indicator glows green.	Receiving.
The LED indicator glows red.	Transmitting.
The LED indicator flashes orange slowly.	Scanning.
The LED indicator flashes orange rapidly.	Emergency.
The LED indicator glows orange.	During a call, you can hold down the <b>PTT</b> key to talk to the other party before the call hang time expires.

## 4. Menu Navigation

The following menu list shows all the menus of the radio. You can customize the menu item in the radio via your dealer.

To select and confirm the options shown in the menu, press the **OK/Menu** key and then press the **Up** or **Down** key to select your needed option, finally press the **OK/Menu** key. This manual only describes the path to the menus, 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.





# 5. Basic Operation

## 5.1 Powering On/Off

Long press the **Power On/Off/ESC** key to power on and off the radio.

## 5.2 Adjusting the Volume

After the radio is powered on, you can press the **Volume +/Right** key to increase the volume and press the **Volume -/Left** key to decrease it.

## 5.3 Selecting a Zone

You can include a group of channels with the same property into a zone for convenient management. The radio supports 16 zones, each of which consists of up to 16 channels. You can select a zone through any of the following ways:

- Via the menu: Go to “Menu -> Zone”, press the **Up** or **Down** key to select an appropriate zone, and then press the **OK/Menu** key to confirm it.
- Via Programmable Keys: You can toggle to the appropriate zone by pressing the programmed **Zone Up** or **Zone Down** key preset by your dealer.

## 5.4 Selecting a Channel

After the radio is powered on, you can press the **Up** or **Down** key to select the channel.

## 5.5 Locking and Unlocking the Keypad

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

- Key Combination: press the **OK/Menu** key and **P1** to lock the keypad; press any key (other than **PTT**, **SK1**, **Volume -/Left** key, **Volume +/Right** key and **Power On/Off/ESC** key) and **P1** to unlock it.
- Programmable Keys: Press the programmed **Keypad Lock** key preset by your dealer.
- Via the menu: Go to “Settings -> Radio Settings -> Keypad Lock” to enable or disable the feature.
  - Enable: The keypad will be locked if there is no radio operation within the preset time.
  - Disable: The keypad will not be locked automatically. But you can lock/unlock the keypad via methods mentioned above.

## 6. Call Services

After the radio is powered on, 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: It is a voice call between individual user and another individual user.
- Group call: It is a voice call between one individual user and a predefined group of users. All parties in the group can communicate with each other.
- All call: It is a one-way voice call from any user to all users on a channel.



### 6.1 Calling on Digital Channel



You can initiate a private call, group call or all call (programmed by your dealer) through the same operations on digital channel.


Here we take the private call as example to illustrate the call process:

- Preset contact


1. Radio A and Radio B select the same digital channel.


You may ask your dealer to preset a regular private call/group call/all call contact for each digital channel.

2. Radio A holds down the **PTT** key to initiate a call.
3. By holding down the **PTT** key, Radio A can talk to the microphone when the LED indicator glows red and the radio displays the icon .
4. Radio B can receive the call without any operation. When receiving, the LED indicator glows green and the radio displays the icon .

Radio B can hold down the **PTT** key to talk when the LED indicator glows orange and the radio displays the icon .

If Radio B does not respond it, the radio will display appropriate indications.

5. Radio A can receive the call without any operation. When receiving, the LED indicator glows green and the radio displays the icon .

Radio A can hold down the **PTT** key to talk when the LED indicator glows orange and the radio displays the icon .


- Contact List or Call Log


1. Radio A and Radio B select the same digital channel.


2. Radio A accesses the contact list via menu “Contact -> Contact List”, “Contact -> Favorite Contact” or “Call Log -> Outgoing/Incoming/Missed”.

3. Radio A presses the **Up** or **Down** key to select Radio B.


4. Radio A holds down the **PTT** key to initiate a call.


5. By holding down the **PTT** key, Radio A can talk to the microphone when the LED indicator glows red and the radio displays the icon .

6. Radio B can receive the call without any operation. When receiving, the LED indicator glows green and the radio displays the icon .

Radio B can hold down the **PTT** key to talk when the LED indicator glows orange and the radio displays the icon .

If Radio B does not respond it, the radio will display appropriate indications.

7. Radio A can receive the call without any operation. When receiving, the LED indicator glows green and the radio displays the icon .

Radio A can hold down the **PTT** key to talk when the LED indicator glows orange and the radio displays the icon .

 **Note:**

The duration of LED indicator glowing orange (Call Hang Time) is preset by your dealer. The call will end if neither party talks before this duration expires.


## 6.2 Calling on Analog Channel (No Signaling)

On the analog channel without signaling, the calling operations are the same as that on the digital channel. The difference is that the called parties are all the users on the channel, rather than the preset contact for the channel.

# 7. Features and Operations

## 7.1 Home Screen


The feature allows the radio to return to the home screen directly.

To return to the home screen directly, press .

## 7.2 Contact

You can manage the contacts via the “Contact” menu.

### 7.2.1 Contact List

The Contact List is used to save the Call Alias, Call Type and Call ID of Private Call/Group Call/All Call contacts which is preset by the dealer. You can access the “Contact List” menu via the ‘Contact’ menu or by pressing  or the programmed **Contact List** key.

In the “Contact List” menu, you can check the detailed contact information (such as Call ID).

### 7.2.2 Favorite Contact

You can add or delete a contact in the “Favorite Contact” menu.

## 7.3 Message

You can send the Quick Text message directly. In the inbox, you can reply, forward or delete the text message, and in the outbox you can also resend, forward or delete the message.



**Operation:** Press the **OK/Menu** key and select the “Message” menu.

### Quick Text

The radio supports a maximum of 10 Quick Text messages programmed by your dealer. You can select a Quick Text message and send it directly.

### Inbox

The radio saves the received messages into the Inbox and gives every message a corresponding icon to indicate its status.

-  : Read message
-  : Unread message

The inbox can save up to 10 received messages. When the Inbox is full, the icon will appear on the LCD, and the earliest message will be overwritten by the latest one automatically.

### Outbox

The radio saves the successfully sent messages into the Outbox.

The outbox can save up to 10 sent messages. When the Outbox is full, the earliest message will be overwritten by the latest one automatically.

## 7.4 Call Log

The radio keeps track of all recent outgoing, incoming and missed private calls only.

It can store up to 10 call logs. When the Call Log is full, the earliest call log will be overwritten by the latest one automatically.

**Operation:** To access this menu, press the **OK/Menu** key and select the “Call Log” menu; or press the programmed **Call Log** key directly.

In the call log list, you can select a call log and hold down the **PTT** key to initiate a call or delete it. To delete all the call logs, go to “Call Log -> Outgoing/Incoming/Missed -> Delete All”.


## 7.5 Scan




The Scan feature allows you to listen to communication activities on other channels so that you can keep a close track of your team members. You can enable and disable the Scan feature, select and view the scan list via the following operations:


**Operation:** To enable the Scan feature, go to “Menu -> Scan -> Scan On/Off” and select “On”. To view or select a scan list, go to “Menu -> Scan -> Scan List”.

In the home screen, you can press the programmed Scan key to enable and disable the scan feature. The radio will start scanning automatically, when you select a channel with the Auto Scan feature enabled (programmed by your dealer).

After the feature is enabled, your radio will scan all the channels in the scan list set for the channel on which scanning starts. The scanning process is as follows:

- During scanning, you can see the icon  on the LCD, and the LED indicator flashes orange slowly.
- When activities are detected on a channel, the radio will stay on the channel to receive current activities, and the LED indicator will glow green.

If your radio stays on a non-priority channel, you can see the icon  on the LCD. If your radio is on Priority Channel 1 or Priority Channel 2, you can see the icon  or  on the LCD accordingly.

- If you want to continue listening to the activities on the channel, press the programmed **Monitor** or **Squelch Off Momentary** key during scan stay. 

- To stop scanning, go to “Menu -> Scan -> Scan On/Off” and select “Off”, or press the programmed **Scan** key again.



#### **Note:**

The radio cannot scan analog channel and digital channel at the same time.

## 7.6 Radio Settings

You can optimize performance of your radio via the following configuration according to your actual needs and preferences.

**Operation:** Go to “Settings -> Radio Settings” to configure the corresponding features.



### 7.6.1 Talk Around

You can continue to communicate in DMO by pressing the programmed **Talk Around** key when your repeater malfunctions, or when your radio is out of the repeater’s coverage but still within the coverage of the other radio.

You can enable and disable this feature via the “Settings” menu or by pressing the programmed **Talk Around** key.

### 7.6.2 Power Level

You can set the TX power level to high or low. High power can extend the signal coverage, enabling you to communicate with farther radios. Generally, we recommend you to adopt low power for battery saving. However, if you cannot communicate with radios located at a distant place with low power, please select high power.

Besides the menu, you can also toggle the power level by pressing the programmed **Adjust Power Level** key in the home screen. On the LCD, high power is indicated by  and low power is indicated by .

### 7.6.3 Squelch

You can adjust the squelch threshold required for the radio to be unmuted.

Generally, the higher squelch level requires stronger signal. If the squelch level is set to “Open”, the speaker will keep unmuted irrespective of the decoding conditions.

Besides the menu, you can switch the level among “Tight”, “Normal” and “Open” by pressing the programmed **Adjust Squelch Level** key.

### 7.6.4 Backlight

You can set the backlight. Activating the backlight can illuminate the LCD and the keypad, so as to facilitate your operation under dim light conditions. The menu has the following options:

- Off: the backlight will remain off.
- On: the backlight will remain on.
- Timed: If no operation or signal transmission/receipt occurs within the time preset by the dealer, the backlight will be turned off automatically.

## 7.6.5 LED Indicator

You can set whether to activate the LED indicator. You can set the LED indication for specific features such as TX, RX, Scan, Low Battery, and the like.

## 7.6.6 Tone

You can turn the tone on and off. If it is set to Silent, the radio will give no tones at all.

## 7.6.7 Covert Mode

When Covert Mode is enabled, the radio will disable any visible or audible indications set by your dealer, such as the LED indicator, vibration and tone. This feature is mainly used in special missions.



### Note

If an audio accessory is connected to the radio, it will output the tone when the Covert Mode is enabled.

Besides the menu, you can also enable or disable this feature by pressing the programmed **Covert Mode** key.

## 7.7 Device Information

You can view basic information of the radio, including Radio ID, Radio Alias, Serial Number, Model Name, Frequency Range, Firmware Version, Radio Data Version, Boot Loader Version, etc.

**Operation:** Go to “Settings -> Device Info”.

## 7.8 One Touch Call

This feature allows you to make calls or send messages to the predefined contact easily. By pressing the programmed **One Touch Call** key, you can make the following services:

- To initiate group calls or send messages to the group call contact.
- To initiate private calls or send messages to the private contact.

### Operation

Service	Operation
To initiate private calls or group calls on	Press the programmed <b>One Touch Call</b> key and then

Service	Operation
the digital channel.	hold down the <b>PTT</b> key.
To send messages.	Press the programmed <b>One Touch Call</b> key.

## 7.9 Time-Out-Timer

The feature is to prevent you from occupying a channel for an extended period. If the TX time (60s preset by dealer) expires, the radio will automatically terminate transmission and keep beeping. To stop beeping, please release the **PTT** key. You must wait for a certain time period which you can configure via the “TOT Re-key Time” menu before you can press and hold down the **PTT** key to transmit again.

## 7.10 Transmission Management

This feature can prevent your radio from interfering with other transmitting radios on the same channel. If you hold down the **PTT** key while the channel is in use, your radio will keep beeping, alerting you to transmission prohibition. It can be programmed via the CPS.

TX Admit on digital channel includes the followings:

- Always Allow: You can hold down the **PTT** key to transmit all the time, no matter whether the channel is being interfered or not.
- Channel Free: The radio is allowed to transmit when the channel is not being interfered.
- Color Code Free: The radio can transmit only when the channel is not being interfered or the color code is not matched.


TX Admit on analog channel includes the followings:

- Always Allow: You can hold down the **PTT** key to transmit all the time, no matter whether the channel is being interfered or not.
- Channel Free: The radio is allowed to transmit when the channel is not being interfered.
- CTCSS/CDCSS Match: The radio is allowed to transmit when CTCSS/CDCSS is matched.
- CTCSS/CDCSS Mismatch: The radio is allowed to transmit when CTCSS/CDCSS is mismatched.


## 7.11 Monitor

With the Monitor feature enabled, you can adjust the match conditions for signal receiving.

### Operation


- Press the programmed **Monitor** key to enable the feature, then the radio displays the icon  ; press this key again to disable the feature.



- Hold down the programmed **Monitor Momentary** key to enable the feature, then the radio displays the icon  ; release this key to disable the feature.

## 7.12 Squelch Off Momentary

With the Squelch Off Momentary feature enabled, your radio's speaker will keep unmuted no matter whether carrier is present.

**Operation:** Hold down the programmed **Squelch Off Momentary** key to enable this feature, then the radio displays the icon  and sounds background noise. To disable the feature, release this key.

## 8. Troubleshooting

Phenomena	Analysis	Solution
Power-on Failure.	The battery may be improperly installed.	Remove the battery and then attach 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.
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 pressing the <b>Volume +/Right</b> key.
	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.
Unable to communicate with other members.	The frequency or signaling may not match that of other members.	Set your TX/RX frequency and signaling to the same as that of other members.
	The channel type (digital/analog) may be set inconsistently.	Make sure all members are on the same digital/analog channel.
	You may be too far away from the group members.	Move towards other members.
Irrelevant communication or noise is heard on the channel.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio may be set with no	Set signaling for all member radios to avoid

Phenomena	Analysis	Solution
	signaling.	interference at the same frequency. And change the signaling settings for all portable radios at the same time.
The noise is too loud.	You may be too far away from other members.	Move towards other members.
	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.

If the above solutions cannot fix the problems, or there are other questions, please contact us or your local dealer for more technical support.

## 9. 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 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 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.

## 10. Optional Accessories

The following item is 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.