



Instruction Manual

DP770

We are very grateful for your purchasing  brand two-way radios produced by Kirisun Communications Co., Ltd.

We believe  two-way radio, which always incorporates the latest technology, can bring great convenience to your life and work.

We also believe that the quality and function of  two-way radio can meet your demands for reliable communication.

Notice to the User

Before using this radio, read this operating instruction carefully for safe and convenient usage. When you begin to use it, we deem that you have read this manual.

Keep this manual in a safe place and make it available to other operators in case the product is passed on to other people.

When purchasing our product, please fill in the WARRANTY CARD with truth information, and ask for the valid proof of purchase so as to protect your legal rights.

Kirisun and our authorized partners own the intellectual property of all the parts of this product (include accessories). Any design and materials may not be modified, copied, extracted or translated without the authorization of Kirisun or its authorized parties.

Due to the update or modification of the product, Kirisun owns the right to change the specifications of software and hardware described in this manual without further notice. Specifications and information contained in this manual are for reference only.

Kirisun reserves the right to interpret the mistakes and errors occurring in this manual, though all the contents are checked carefully.

Safety

Before using this radio, read this operating instruction carefully for safe and convenient usage.

This product can only be maintained by the professional technicians. Do not disassemble the radio by yourself.

To avoid of the problems caused by electromagnetic interference or electromagnetic compatibility, turn off the radio in any facilities where posted notices instruct you to do so, such as hospital and other health care facilities. And when on board an aircraft, turn off the radio if instructed to do so too.

In the vehicle with an air bag, do not place the radio in the area over an air bag or in the air bag deployment area.

Turn off the radio before entering any area with a potentially explosive atmosphere or blasting caps.

Do not operate the radio, disassemble or charge the battery in the potentially flammable and explosive atmosphere (such as gas station, coal gas station, etc.).

Do not place the radio under the direct sunlight or near the area with heating devices.

Do not place the radio in the area with great dust, moisture or drips, or on the unstable surface.

Contact us or your local dealer for help if you want to re-develop or modify the radio.

Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

Make sure the antenna is correctly installed when using. The radio without antenna may cause damage in the process of transmission.

Keep the radio vertically and away from your mouth about 5cm in the process of transmission.

When worn on your body, make sure the antenna is at least 2.5cm away from your body in the process of transmission.

Battery

All batteries can cause property damage and/or bodily injury, such as burns, if a conductive material such as jewelry, keys, or beaded chains touches exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Excessive care in handling any charged battery, particular when placing it inside a pocket, purse, or other container with metal objects. To reduce the potentially damage, do not expose the battery in the fire, or disassemble and extrude the battery.

The maximum ambient temperature around the adapter or transformer for the charger should not exceed 40°C (104°F).

Turn off the radio when charging. If not, the battery's capacity will be affected.

Do not insert the battery pack into the charger when charging is not necessary. The continuous charging will shorten the battery's lifetime. Do not use the charger as the pedestal for the radio.

To realize the best performance of the battery, change the battery once a year.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Your radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only" meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, your Kirisun Communications Co., Ltd radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

1. FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
2. American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
3. American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields- RF and Microwave.
4. The following accessories are authorized for use with this product. Use of accessories other than those (listed in the instruction) specified may result in RF exposure levels exceed the FCC requirements for wireless RF exposure.

To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

1. DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or antenna specifically authorized by the manufacturer for use with this radio.
2. DO NOT transmit for more than 50% of total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" lights red. You can cause the radio to transmit by pressing the "PTT" switch.
3. ALWAYS keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the Kirisun belt-clip which is listed in instructions when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from your mouth, and slightly off to one side. The information listed above provides the user with

the information needed to make him or her aware of RF exposure, and what to do to as*sure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility During transmissions, your Kirisun radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites. **Occupational/Controlled Use** The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.


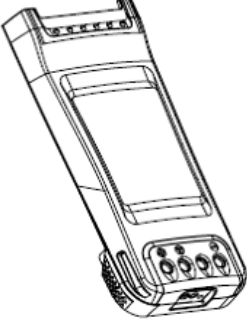
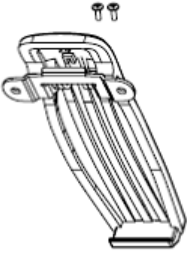
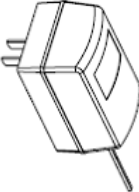
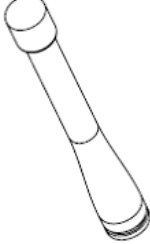
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■ **Unpacking and Checking**

Unpack the radio carefully. We recommend that you check the radio and the supplied accessories listed in the following table before discarding the packing material. If any damage or loss has occurred during shipment, please contact the deliveryman or the dealer without delay.

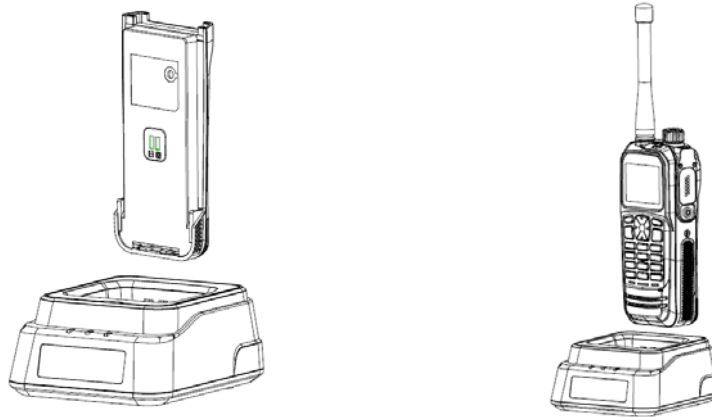
Accessories

		
<p>Charger</p>	<p>Battery Pack</p>	<p>Belt clip & Screws</p>
		
<p>Adapter</p>	<p>Antenna</p>	

■ **Getting Prepared**

1) **Charging the battery**

Plug the adapter into the suitable AC socket, and connect the adapter with the charger base. Then the Yellow LED lights on. Insert the uncharged battery or the radio into the charger. Make sure that the battery is well connected with the connector on the charger. Then Red LED indicator lights on and the charging begins. After about 5 hours, the Red LED indicator lights off. Then the Green LED indicator lights on. That indicates the battery is fully charged.



Keep the battery in this state for 1~2 hours, and then get it off from the charger. The battery arrives to its best performance. And then plug off the AC adapter from the socket.

Note:

- The radio battery is not charged before shipment. Please charge it before the initial use.
- KB-35L Li-ion battery of Kirisun is applicable to this radio.
- When charging the battery for the first time after purchase or long-time storage (over 2 months), please repeat charging three times for the battery to achieve normal capacity.
- Do not recharge the battery if it has been fully charged or the radio is not in the low battery alarm state; otherwise, it will have bad effects on the battery's service life and performance. Remove the battery from the charger after charging.

2) Installing/removing the battery

Match the battery pack with the two slots on the back of the radio, and push forward the battery along the slots until a click is heard. Then the battery is installed.



Removing the battery

Press down the battery latch, and push back the battery until it separates from the radio.



Note:

Do not short-circuit the battery terminals or dispose the battery in fire.

Do not disassemble the battery casing by yourself.

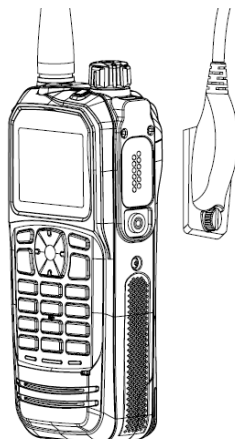
3) Installing the antenna

Hold the base of the antenna and turn the antenna clockwise into the connector on the top of the radio until secure.



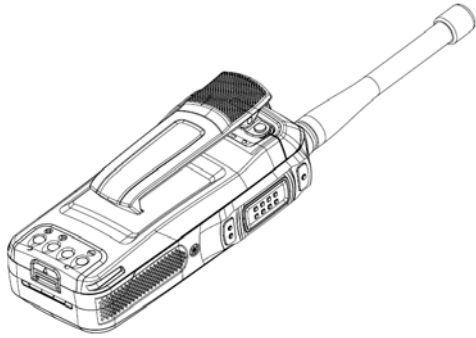
4) Installing the external speaker/microphone

Match the external speaker/Microphone with the connector on the side of the radio, and fasten the screw.

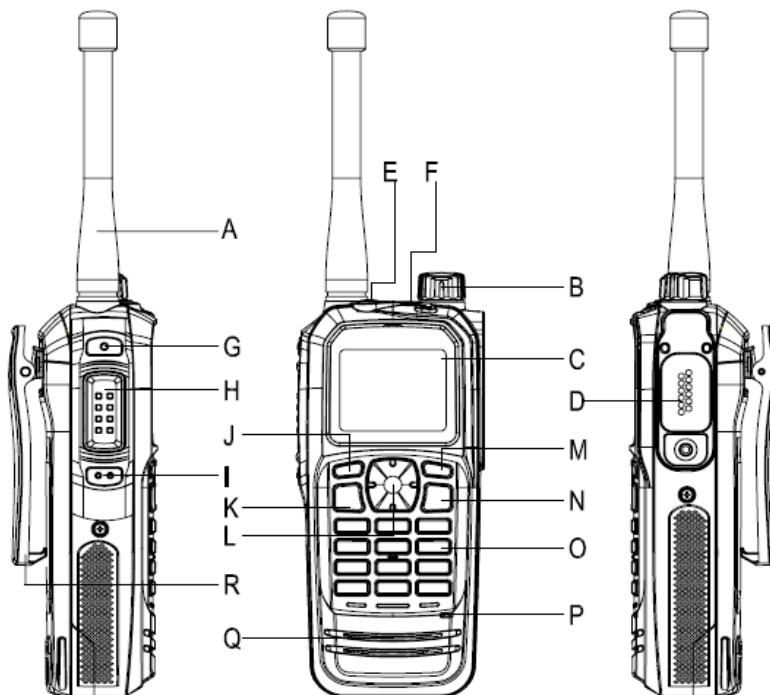


5) Installing the belt clip

Match two holes on the belt clip with the holes on the back of the radio, and fasten them with the screwdriver.



■ Getting Started



A. Antenna

B. Volume/Channel Knob

Short press the key, the function of the knob switches from adjusting the volume to changing the channel.

Rotate the knob to adjust the volume or change the channel. Rotate clockwise to increase;

rotate counterclockwise to decrease.

C. LCD Screen

160*128, 65K colors, 1.77TFT

D. Universal Connector

Connect USB programming cable, earphone and etc.

E. Top Key

Programmable, default: short press to enable emergency alarm, long press to exit emergency alarm.

F. LED Indicator

RED—transmitting, GREEN—receiving, Flash RED—low battery when transmitting.

G. Side Key 1

Programmable, default: none.

H. PTT Key

Press the key and speak to send a call; release the key to receive the call.

Press the key to send the data and text messages.

I. Side Key 2

Programmable, default: none.

J. Left Key

Press the key to select the items shown at the bottom left of the screen.

K. Send Key

Press the key to send the data or text messages.

L. Navigation Key

M. Right Key

Press the key to select the items shown at the bottom right of the screen.

N. ON/OFF/End Key

Long press the key to turn on/off the radio.

Press the key to stop sending the data or text messages.

Return back to the standby screen.

O. Numeric keyboard

You can input the contact number; edit the contact and text messages with the keyboard.

P. MIC

Q. Speaker

■ Basic Operation

1) Powering on

Long press the ON/OFF key to turn on the radio. Then the LCD displays Kirisun Logo. The backlight turns on automatically and a beep sound is heard.



In the power on state, long press the ON/OFF key until Powering off screen exists, and then the radio is turn off.

2) Adjust the volume/channel

The default setting of the knob is to adjust the volume. Short press the key, the knob function switches from adjusting the volume to changing the channel. Rotate clockwise to increase; rotate counterclockwise to decrease.



3) Programmable keys

The dealer can program the keys as the shortcut keys.

Short press—press the key and release it soon.

Long press—press and hold the key for several minutes (depending on the setting in CPS, usually within 0.5S~5.0S).

Hold—always press and hold the key.









Programmable Functions

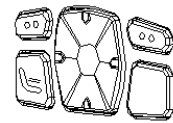
Items	Functions
None	None
Zone Select	Select the target zone in the zone list
Home Channel	Return to the home channel speedily
All Alert Tone ON /OFF	OFF/ON all the alert tone
LCD Backlight	Always on, always off or auto
Exit Emergency Alarm	Exit the emergency alarm state
Emergency Alarm	Enter the emergency alarm state
High/Low Power	Switch the radio power level
Squelch Level	Select the squelch level of the radio *
VOX	Enable/disable VOX function *
Manual Dial	Input the radio ID with the keyboard to make a call
Squelch On	Press the key once to enable squelch, press it again to return to the normal mode (analog mode *)
Monitor	Press the key once to enable monitor mode, press it again to return to the normal mode (analog mode *)
Scan	Enable/disable scan
Make a call	Make the preset private call, group call, call alert or template message (digital mode); make the preset call (analog mode *)
Man down	Enable/disable man down function
Contact	Enter the contact menu
Messages	Enter the short message menu
Call Log	Enter the call log menu
Call Alert	Prompt the target radio to call back

Radio Check	Check if the target radio is active or not
Radio Kill	Kill one target radio
Radio Enable	Activate one killed radio
Remote Monitor	Turn on the speaker of the target radio to start transmitting without any prompt.
Vibrate	Enable/disable vibrate

4) Functions overview

You can check the radio’s functions through any of the following operations:

1. Short/long press the relevant programmable keys:
2. View the menu through the navigation keys, the steps are as follows:
 - a) Press  key to enter the menu;
 - b) Press the suitable navigation key   or rotate the knob to enter the menu.
 - c) Press ,  key or short press the emergency key to enter the sub-menu.
 - d) Press  or  key to return to the previous menu or return to the previous screen.
 - e) Press  to return to the standby screen.



Note: If there is no operation to the radio after a certain time (0~30S), the radio will return to the previous screen automatically.

5) Using the keyboard

You can use the 3*4 alphanumeric keyboard to view the radio’s functions. You can use the keyboard to enter subscriber aliases or ID and text messages. Some characters are displayed for pressing the keyboard more than one times. The following table is a list for your reference.

Input mode: abc/ABC

Key	Number of Times Key is Pressed								
	1	2	3	4	5	6	7	8	9
1	'	()	*	+	'	-	.	/
2	A	B	C						
3	D	E	F						
4	G	H	I						
5	J	K	L						
6	M	N	O						

7	P	Q	R	S
8	T	U	V	
9	W	X	Y	Z
0	Blank			
*	Input punctuation: ', ', '/', '\', '?', '!', ':', ';', '\", ""', '~', '@', '*', '#', '%', '(,)', '[,]', '{, }', '<', >'			

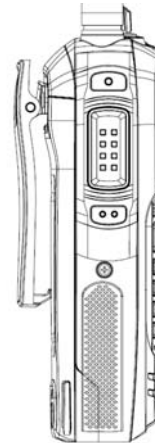
6) PTT key

There are two functions for the PTT key:

(1) During the call, press the PTT key to call the other members joined in this call.

Press down the key and talk to send the call; release it to receive the call.

(2) Press the PTT key to make a new call.












7) Switching between digital and analog mode








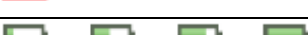





Each channel in the radio can be set as digital channel or analog channel.

Rotate the Channel knob to switch between digital and analog mode.

When switching from digital mode to analog mode, some of the functions are unavailable, e.g. short message. Icons representing the digital function will not display on the screen, the items will not display in the menu either.

8) Icons indication

	Signal strength indication: each bar indicates one level of the signal strength. Four bars are the strongest. This icon displays only when receiving signal.
	High power
	Low power
	Mute
	There is unread message in the inbox.
	The inbox is full.
	Keyboard is locked.
	Emergency alarm mode
	Alarm clock

	Talk-around mode
	GPS is receiving the data.
	GPS enabled, but no data is received.
	If the icon is going round, it means the radio is scanning.
	The scan stops at the ordinary channel.
	The scan stops at the priority channel.
	Low battery warning, the icon flashes.
	Indicates the residual battery capacity.
	Private call
	Group call
	All call
	This item is selected.
	This item is not selected.

9) LED indicator

RED LED flashes: receive emergency alarm call.

ORANGE LED lights on: during the time when the radio receives the call and is going to reset (analog) or is going to call hang (digital).

ORANGE LED flashes: the radio is in emergency alarm status; there is missed call or incoming call alert; the radio is scanning.

RED LED lights on: the radio is transmitting.

GREEN LED lights on: the radio is receiving signals (voice, short message or data) or there is an activity on the channel.

■ Transmitting and Receiving a Call





1) Selecting a zone



You can set 1024 channels at most in your radio. These channels are classified into 128 zones, and there are 128 channels at most in each zone.

The operation is as follows:

Press the key programmed as Zone Select, and then come to the step c);

Or

- a) Press  to enter the menu;
- b) Press  or rotate the knob to “ zone”, and press  to select;
- c) The current working zone is selected;

- d) Press  or rotate the knob to the target zone, and press  to select;
- e) The dialog box pops up and the setting is done. Then the radio returns to the previous menu.

2) Selecting a channel and contact

After the target zone is selected, rotate the knob to select the channel and the contact ID or group ID.



LCD display screen will indicate the selected zone, channel alias and channel number.

3) Receiving and answering the call

(1) Receiving and answering a group call

In order to receive the group call, you must set your radio as the group member (add your radio into the group call list).

When the radio receives the group call:



- a. GREEN LED indicator lights on;
- b. The group call icon , group's alias or ID and incoming call icon  display on the LCD screen;
- c. Keep your mouth 3~6 inches away from the microphone;
- d. Press the PTT key to answer the call and the RED LED indicator lights on;
- e. Wait for the Talk Permit Tone to finish (if enabled*) and speak to the MIC;
- f. Release the PTT key to receive the call;
- g. After the preset time (call hang time) is over, the call is over.

(2) Receiving and answering a private call

Private call is a call from an individual radio to another individual radio.

There are two types of private call in DP770: the first one, where a radio presence check is performed prior to setting up the call; the second one, the caller and the receiver makes the call immediately. On one channel, there is only one type of call, which can be confirmed by programming the channel parameter (Private call Confirm).

When the radio receives the private call:



- a. GREEN LED indicator lights on;
- b. The private call icon , the caller's alias or ID and the incoming call icon  display on the LCD screen;
- c. Keep your mouth 3~6 inches away from the microphone;

- d. Press the PTT key to answer the call and the RED LED indicator lights on;
- e. Wait for the Talk Permit Tone to finish (if enabled*) and speak to the MIC;
- f. Release the PTT key to receive the call;
- g. After the preset time (call hang time) is over, the call is over.

(3) Receiving an all call

All call is a call from an individual radio to every radio on the channel. It is used to make important announcements requiring the user's full attention.

When the radio receives the all call:

- a. GREEN LED indicator lights on;
- b. The private call icon , the caller's alias or ID and the incoming call icon  display on the LCD screen;
- c. When the all call is finished, the radio returns to the previous screen.

Note:

1. The receiver cannot answer all call. During receiving, if the receiver switches to the other channel, the radio stops receiving the call.
2. During all call, all the programmable keys are unavailable until the call is over.

5) Making a call

There are four means to select a channel to send ID or group ID:

Rotate the channel knob;




Press the programmable keys;

Through the contact list (refer to Contact Menu);

Manual Dial from the keyboard



(1) Using the channel knob to make a call

In order to make a group call, you must set your radio as the group member (add your radio into the group call list).

1. Rotate the channel knob to select the channel which is preset the target alias/ID (the call type depends on the contact)
2. Keep your mouth 3~6 inches away from the microphone;
3. Press the PTT key to make a call and the RED LED indicator lights on. The caller's alias/ID and the call type icon (Private call: , Group call:  or All call: ) display on the LCD screen.

4. Wait the Talk Permit Tone to finish (if enabled*), and speak to the MIC;
5. Release the PTT key to receive the call. If the target radio responds the call, GREEN LED indicator lights on, the receiver's call type, alias or ID display on the caller's LCD screen.
6. If the Channel Free Indication feature is enabled, you can hear a short alert tone when release the target radio's PTT key, (the alert tone indicates that the channel is idle) which means that the channel is idle and you can answer the call. Press the PTT key to answer the call or the call ends after the preset time (call hang time) is over, "Call End" displays on the LCD screen.
7. The radio returns to the previous screen.

(2) Using the programmable key to make a call

1. Press the key programmed as Call Key to make a group/private call to the alias or ID.
2. Keep your mouth 3~6 inches away from the microphone.
3. Press the PTT key to make a call and the RED LED lights on. The receiver's alias/ID and the call type (private call: , group call: ) display on the LCD screen.
4. Wait the Talk Permit Tone to finish (if enabled*) and speak to the MIC.
5. Release the PTT key to receive the call. If the target radio responds the call, GREEN LED indicator lights on, the receiver's call type, alias or ID display on the caller's LCD screen.
6. If the Channel Free Indication feature is enabled, you can hear a short alert tone when release the target radio's PTT key, (the alert tone indicates that the channel is idle) which means that the channel is idle and you can answer the call. Press the PTT key to answer the call or the call ends after the preset time (call hang time) is over, "Call End" displays on the LCD screen.
7. The radio returns to the previous screen.

■ Advanced Functions



Your radio also equips with the following advanced functions.


1) Radio Check

This function is used to check whether the radio is active in the system or not, while the checked radio user cannot detect it. Except the LED flashes, there is no audible or visual notification on the radio. The checked radio silently sends back a response to the check radio.

(1) Sending a radio check

By pressing the programmed "Radio Check" key: *












- a) Press the Navigation keys ,  or rotate the knob to the target contact, and press

 to select.





- b) The target ID/alias displays on the LCD screen, indicating that the radio check order is sending, and the RED LED indicator lights on.
- c) Wait for the response.
- d) If the target radio is active in the system, LCD displays “Target Radio Available”, or otherwise “Target Radio Not Available”.




By menu operation:

In the standby screen, press [Contacts] key to come to step c), or


- a) Press  key to enter the menu;
- b) Press ,  or rotate the knob to select “ Contacts”, and press  to select;
- c) Press ,  or rotate the knob to select “Contacts List”, and press  to select. Then press ,  or rotate the knob to select the target private call contact, and press  to select.

Or

Press ,  or rotate the knob to select “Manual Dial”, and press  to select. Then input the target ID with the keyboard and press  to select.

- d) Press ,  or rotate the knob to select “Radio Check”, and press  to select.
- e) The target ID/alias displays on the LCD screen, indicating that the radio check order is sending, and the RED LED indicator lights on.
- f) Wait for the response.
- g) If the target radio is active in the system, LCD displays “Target Radio Available”, or otherwise “Target Radio Not Available”.
- h) The radio returns to the target ID/alias list screen.

Note:

During when the “Radio Check” order is sent out and the radio is waiting for the response, press , the radio will terminate the order and exit “Radio Check” mode.

Or

If the time to wait for the response is over, the radio will automatically exit this mode and displays “Target Radio Not Available”.

2) Call Alert

Call alert function allows the user to ask another user to call back.

(1) Receiving and answer the call alert

When receiving call alert and the call alert decoding is enabled, the radio will automatically answer the call.




The LCD screen displays the caller's alias/ID.

The radio sends out the call alert tone periodically, and the ORANGE LED indicator flashes.

Press the PTT key to call back the caller, or press other keys to neglect the call alert.












(2) Sending a call alert

By pressing the programmed "Call Alert" key: *








- a) Press the navigation keys ,  or rotate the knob to select the target contact, and press  to select.
- b) The target ID/alias displays on the LCD, indicating that the call alert is sending out, and the RED LED indicator lights on.
- c) Wait for the response.
- d) If the response is received, the LCD displays "Call Alert Successful", or otherwise displays "Call Alert Failed".

By menu operation:


In standby screen, press [Contacts] key to come to step c), or

- a) Press  to enter the menu;
- b) Press ,  or rotate the knob to select " contacts", and press  to select.
- c) Press ,  or rotate the knob to select "Contacts List", and press  to select. And press ,  or rotate the knob to select the target private call contact, press  to select.

Or

- Press ,  or rotate the knob to select "Manual Dial", and press  to select. Input the target ID with the keyboard, and press  to select.
- d) Press ,  or rotate the knob to select "Call Alert", and press  to select.
- e) The target ID/alias displays on the LCD, indicating that the call alert is sending out, and the RED LED indicator lights on.
- f) Wait for the response.
- g) If the response is received, the LCD displays "Call Alert Successful", or otherwise displays "Call Alert Failed".

Note:

During when the “Call Alert” order is sent out and the radio is waiting for the response, press , the radio will terminate the order and exit “Call Alert” mode.

Or

If the time to wait for the response is over, the radio will automatically exit this mode and displays “Call Alert Failed”.

3) Radio Kill/Revive

This function allows one radio sending the signaling to kill another radio. The radio to be killed cannot display anything, make or receive calls. The radio can only revive through CPS or the administrator radio sends a revive order. After revived, the radio can work normally again. This function is used to manage the unauthorized usage of the radio, prevent misappropriating the radio which is lost.

(1) Receiving a radio kill

When receive radio kill order and “Radio kill/decoding enabled”, the radio will automatically reply ACK (Successful), or otherwise reply ACK (Failed).

The radio returns to the standby screen, the channel alias, group alias and “Status of kill” display on the screen. The killed radio will not receive any information except the revive order and neglect all the keyboard input except ON/OFF key operation.




(2) Receiving a radio revive

When “Radio kill/decoding enabled” and the killed radio receives the revive order, the radio automatically replies ACK (Successful), or otherwise replay ACK (Failed).

The radio returns to the standby screen. Channel alias and group alias display on the LCD.












(3) Sending a radio kill or revive

By the key programmed as “Radio kill/Radio revive”: *








- a) Press the navigation keys ,  or rotate the knob to select the target contact, and press  to select.
- b) The target ID/alias displays on the LCD, indicating that the radio kill/revive order is sending out, and the RED LED indicator lights on.
- c) Wait for the response.
- d) If the response is received, the LCD displays “Radio Kill Successful”, or otherwise displays “Radio Kill Failed”.

By menu operation:


In standby screen, press [Contacts] key to come to step c), or

- a) Press  to enter the menu;
- b) Press ,  or rotate the knob to select “ contacts”, and press  to select.
- c) Press ,  or rotate the knob to select “Contacts List”, and press  to select. Then press ,  or rotate the knob to select the target private call contact, press  to select.

Or

- Press ,  or rotate the knob to select “Manual Dial”, and press  to select. Input the target ID with the keyboard, and press  to select.
- d) Press ,  or rotate the knob to select “Radio Kill/Revive”, and press  to select.
- e) The target ID/alias displays on the LCD, indicating that the Radio kill/revive order is sending out, and the RED LED indicator lights on.
- f) Wait for the response.
- g) If the response is received, the LCD displays “Radio kill/revive Successful”, or otherwise displays “Radio kill/revive Failed”.

Note:

During when the “Radio kill/revive” order is sent out and the radio is waiting for the response, press , the radio will terminate the order and exit “Radio kill/revive” mode.

Or




If the time to wait for the response is over, the radio will automatically exit this mode and displays “Radio kill/revive Failed”.

4) Remote Monitor

This function is used to enable the target radio’s MIC, and there is no visible or audible sign on the monitored radio. You can use this function to remote monitor the sound around the target radio.

(1) Sending remote monitor

By the programmed “Remote Monitor” key: *












- a) Press the navigation keys ,  or rotate the knob to select the target contact, and press  to select.
- b) The target ID/alias displays on the LCD, indicating that the remote monitor order is sending

out, and the RED LED indicator lights on.








- c) Wait for the response.
- d) If the response is received, the LCD displays “Remote Monitor Successful”, or otherwise displays “Remote Monitor Failed”.

By menu operation:


In standby screen, press [Contacts] key to come to step c), or

- a) Press  to enter the menu;
- b) Press ,  or rotate the knob to select “ contacts”, and press  to select.
- c) Press ,  or rotate the knob to select “Contacts List”, and press  to select. Then press ,  or rotate the knob to select the target private call contact, press  to select.

Or

- Press ,  or rotate the knob to select “Manual Dial”, and press  to select. Input the target ID with the keyboard, and press  to select.
- d) Press ,  or rotate the knob to select “Remote Monitor”, and press  to select.
 - e) The target ID/alias displays on the LCD, indicating that the Remote Monitor order is sending out, and the RED LED indicator lights on.
 - f) Wait for the response.
 - g) If the response is received, the LCD displays “Remote Monitor Successful”, or otherwise displays “Remote Monitor Failed”.

Note:

During when the “Remote Monitor” order is sent out and the radio is waiting for the response, press , the radio will terminate the order and exit “Remote Monitor” mode.

Or

If the time to wait for the response is over, the radio will automatically exit this mode and displays “Remote Monitor Failed”.

■ Emergency Alarm

If enabled and the user is in danger, the user can send out a confirmed emergency alarm signal and an emergency voice to the administrator user. The user can send the alarm in any time, even if the current channel is receiving the signal.

Your radio supports the following three means of emergency alarm mode:

Emergency alarm only

Emergency alarm with call

Emergency alarm with voice to follow

And every mode has the following types:

Alarm only—After enabled the emergency alarm, the alarm sends out from the radio, but the Monitor Center could not receive any alarm signal.

Regular—the radio sends out the emergency alarm, with the sound and the LED indication.

Silent—the radio sends out the emergency alarm, without the sound and the LED indication. Even when the radio receives the answer, its speaker is mute until the PTT key is pressed.



Silent with voice—the radio sends out the emergency alarm and is able to receive an incoming call, without any audio or visual indicators, until you press the PTT key to initiate, or respond to the call.

The above type can be set by CPS, and only one type can be chosen.

(1) Receiving an emergency alarm

If enabled “Emergency Alarm Indication”, your radio can receive the emergency alarm, or otherwise, the alarm is neglected.

To receive the emergency alarm, the radio must be set as the group member (add your radio into the group call list).

- a) When receive the emergency alarm, the icon  displays on the LCD screen.
- b) The caller’s alias/ID, the icon  and the emergency alarm type icon display on the LCD. The radio sends out the alarm alert tone periodically, and the RED LED indicator flashes quickly.
- c) If “Emergency Alarm Reply” (channel parameter) is enabled, the radio will automatically reply the emergency alarm.

Note: Under the emergency alarm, the radio can receive all the calls, including private call, group call and short message. But the LCD only displays the call type after exit the emergency alarm mode.

(2) Responding an emergency alarm




When the radio receives the emergency alarm:

- a) Press any key to exit the Emergency Alarm Indication screen.
- b) Keep your mouth 3~6 inches away from the microphone.
- c) Press the PTT key to answer the caller and the RED LED indicator lights on. The radio still stays in emergency alarm mode.

- d) Wait the Talk Permit Tone to finish (if enabled *) and speak to MIC.
- e) Release the PTT key to receive. If the caller responses the call, the GREEN LED indicator lights on, and the icon indicating the transmitting radio's type, alias or ID display on the LCD.
- f) After the call is over, long press the programmed "Emergency Alarm" key to delete the Emergency Alarm Indication and then exit this mode.
- g) The radio returns to the standby screen.





(3) Sending an emergency alarm

This function is used to send an emergency alarm without the voice.

- a) Press the key programmed as "Emergency Alarm" to activate this mode, and the LCD displays .
- b) The LCD also displays alarm group alias/ID, the emergency alarm icon  and this icon .
- c) When the alarm is received, the LCD indicates that "Emergency Alarm Successful".
Or if not received, and the retry time is over, the LCD indicates that "Emergency Alarm Failed".
- d) The radio exits Emergency Alarm mode, and return to the standby screen.
If your radio sets as Silent and Silent with voice, there will be no sound or sign in Emergency Alarm mode.

(4) Sending an emergency alarm with call

This function allows you to send an emergency alarm to another radio. When this radio receives the call, the communication can be started in the emergency alarm channel.

- a) Press the key programmed as "Emergency Alarm" to activate this mode, and the LCD displays .
- b) The LCD also displays alarm group alias/ID, the emergency alarm icon  and this icon .
- c) When the alarm is received, the LCD indicates that "Emergency Alarm Successful".
- d) Keep your mouth 3~6 inches away from the microphone.
- e) Press the PTT key to make a call and the RED LED indicator lights on. The group call icon  displays on the LCD.
- f) Wait for the Talk Permit Tone to finish (if enabled*) and speak to MIC.
- g) Release the PTT key.
- h) If the Channel Free Indication feature is enabled, you can hear a short alert tone when release

the target radio's PTT key, (the alert tone indicates that the channel is idle) which means that the channel is idle and you can answer the call. Press the PTT key to answer the call or long press the programmed "Emergency Alarm" key to end the alarm.

- i) The radio returns to the standby screen.

If your radio sets as Silent, there is no sound or sign in Emergency alarm mode. And the radio cannot receive the response from other radios, unless you press down the PTT key.





If your radio sets as Silent with voice, there is no sound or sign in Emergency alarm mode or in receiving the calls from other radio, unless you press the PTT key to make a call or answer the call.

(5) Sending an emergency alarm with voice to follow

This function allows you to send an Emergency Alarm to the other radio, and then enables your radio's MIC automatically, so that you can communicate with other radios without pressing the PTT key.

The state of which MIC is activated automatically is called "Hot MIC" state. [Hot MIC Duration] can be set by CPS in the digital emergency system settings.

During Hot MIC Duration, press the PTT key, the radio will neglect the PTT operation and stays at the emergency mode.

- a) Press the key programmed as "Emergency Alarm", the radio enters emergency alarm mode, and the LCD displays .
- b) The LCD also displays alarm call group alias/ID, emergency alarm icon  and this icon .
- c) Keep your mouth 1~2 inches away from the microphone and speak to it. If Hot MIC enabled, the radio transmits automatically without pressing the PTT key until Hot MIC Duration is over.
- d) During transmission, the RED LED indicator lights on, and the group call icon  displays on the LCD.
- e) When Hot MIC Duration is over, the radio stops transmitting automatically. You can press the PTT key to continue transmitting.

If your radio sets as Silent, there is no sound or sign displayed in Emergency alarm mode. And the radio cannot receive the response from other radios until Hot MIC Duration is over and you can press down the PTT key to make a call.

If your radio sets as Silent with voice, there is no sound or sign in Emergency alarm mode, Hot MIC Duration or in receiving the calls from other radio, unless you press the PTT key to make a call or answer the call.

(6) Exiting an emergency alarm

Your radio will exit the emergency alarm mode in the following conditions:

- a) In emergency alarm mode only, and receive the response;
- b) Emergency alarm retry time is over, and no response is received;
- c) The programmed Emergency key is long pressed.

■ Menu













1) Contacts

Contacts provides “address-book” capabilities on your radio. Each entry corresponds to an alias or ID that you use to make a call and the call type (group call, private call or all call).

In digital mode, contacts can store at most 512 groups. You can add, delete or edit these records.

(1) Make a group call from Contacts

















The steps are as follows:

- a) Press  key to enter the menu;
- b) Press  ,  or rotate the knob to select “ Contacts”, and press  to select;
- c) Press  ,  or rotate the knob to select “Contacts List”, and press  to select. Then press  ,  or rotate the knob to select the target group call contact, and press  to select.
- d) Keep your mouth 3~6 inches away from the microphone.
- e) Press the PTT key to make a call, and the RED LED indicator lights on. The caller’s alias/ID and the call type icon  displays on the LCD.
- f) Wait the Talk Permit Tone to finish (if enabled*) and speak to the MIC.
- g) Release the PTT key to receive. If any of the group member answer the call, the GREEN LED indicator lights on, the group type icon, alias or ID display on the LCD.

If the Channel Free Indication feature is enabled, you can hear a short alert tone when release the target radio’s PTT key, (the alert tone indicates that the channel is idle) which means that the channel is idle and you can answer the call. Press the PTT key to answer the call or the call ends after the preset time (call hang time) is over, “Call End” displays on the LCD screen.

(2) Make a private call from Contacts

The steps are as follows:

- a) Press  to enter the menu;
 - b) Press ,  or rotate the knob to select " Contacts", and press  to select.
 - c) Press ,  or rotate the knob to select "Contacts List", and press  to select. Then press ,  or rotate the knob to select the target private call contact, press  to select.
- Or
- Press ,  or rotate the knob to select "Manual Dial", and press  to select. Input the target ID with the keyboard, and press  to select.
- d) Keep your mouth 3~6 inches away from the microphone.
 - e) Press the PTT key to make a call, and the RED LED indicator lights on. The caller's alias/ID and the call type icon  displays on the LCD.
 - f) Wait the Talk Permit Tone to finish (if enabled *) and speak the MIC.
 - g) Release the PTT key to receive. If any of the group member answer the call, the GREEN LED indicator lights on, the group type icon, alias or ID display on the LCD.
 - h) If the Channel Free Indication feature is enabled, you can hear a short alert tone when release the target radio's PTT key, (the alert tone indicates that the channel is idle) which means that the channel is idle and you can answer the call. Press the PTT key to answer the call or the call ends after the preset time (call hang time) is over, "Call End" displays on the LCD screen.