

A decorative horizontal bar chart with vertical bars of varying heights and colors (gray, light blue, and medium blue) surrounding the central text.

INSTRUCTION MANUAL

DP770

Digital Portable Radio

DIGITAL

<http://en.kirisun.com>

Instruction Manual

DP770

Digital Portable Radio

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

We believe KIRISUN 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 KIRISUN two-way radio can meet your demands for reliable communication.

Notice to user

◆ Copyright

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.

◆ Safety Information

Compliance with RF Exposure Standards

Your radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% transmitting. In terms of measuring RF energy for compliance with the IEEE and ICNIRP exposure limits, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

Your radio complies with the following of RF energy exposure standards and guidelines

Institute of Electrical and Electronic Engineers (IEEE) C95.1-1992

Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition

International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

◆ Operating Instructions to control RF Exposure

To decrease your exposure and ensure compliance with the occupational/controlled environment exposure limits, please always adhere to the following procedures.

1. Transmit no more than the rated duty factor of 50% of the time. To transmit, press the PTT button, and to listen, release the PTT button.
2. Keep your radio in a vertical position in front of the face with the microphone 5cm away from your mouth while transmit.
3. When worn on your body, keep the antenna 2.5cm away from you body while transmit.
4. Do not transmit when the radio is not equipped with an antenna. Transmitting without an antenna may damage the product and result RF discomfort.

◆ Using the designated accessories

Use the antenna, battery, adapter or charger supplied or sold by Kirisun only, or otherwise it causes damage to the

product.

If you want to purchase or replace the accessories, please contact your local dealer or Kirisun.

◆ Area restrictions

1. 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. Turn off the radio when on board an aircraft, if instructed to do so.
2. 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.
3. Turn off the radio before entering any area with a potentially explosive atmosphere or blasting caps.
4. 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.).
5. Do not place the radio under the direct sunlight or near the area with heating devices.
6. Do not place the radio in the area with great dust, moisture or drips, or on the unstable surface.

◆ Operating Attentions

Antenna

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.

Batteries

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. Exercise 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.

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

Maintenance

Do not disassemble the radio by yourself. This product can only be maintained by the professional technicians. Contact us or your local dealer for help if you want to re-develop or modify the radio.

Contents

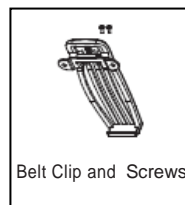
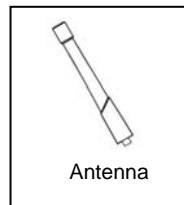
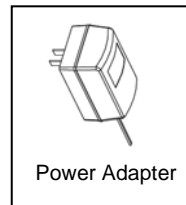
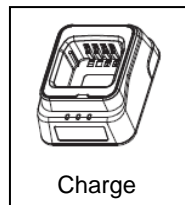
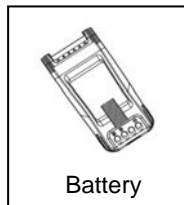
1	Unpacking and Checking	1
2	Preparing Your Radio for Use	2
2.1	Installing the Battery	2
2.2	Removing the Battery	3
2.3	Installing the Antenna	3
2.4	Installing the Audio Accessory/Programming Cable	3
2.5	Installing the Belt Clip	3
2.6	Getting Started.....	4
3	Basic Operation	6
3.1	Powering ON/OFF	6
3.2	Adjust the Volume/Channel	7
3.3	PTT Key.....	7
3.4	Menu Operation	7
3.5	Icon Indication.....	8
3.6	LED Indicator	9
4	Transmitting and Receiving a Call	10
4.1	Initiate a Call to the Default Contact	10
4.2	Selecting a Contact and Initiate a Call	10
4.3	Manual Dial and Initiate a Call	10
4.4	Receiving and Answering the Call	10
4.5	Selecting a Zone	11
4.6	Switching between Digital and Analog Channels.....	11
5	Text Message	12
5.1	Writing and Sending a Text Message	12

5.2	Sending a Quick Text Message	13
5.3	Receiving Text Messages.....	13
6	Emergency.....	14
6.1	Sending an Emergency Alarm	14
6.2	Sending an Emergency Alarm with Call.....	15
6.3	Sending an Emergency Alarm with Voice to Follow.....	15
6.4	Receiving an Emergency Alarm.....	16
6.5	Exiting an Emergency Alarm.....	17
7	Call Logs.....	17
7.1	Viewing Recent Calls	18
7.2	Store ID to Contact List.....	18
7.3	Delete a Call from the Call List	18
8	Common Settings	19
8.1	Radio Settings	19
8.2	Radio Information	23
9	Advanced Functions	24
9.1	Radio Check	24
9.2	Call Alert	25
9.3	Radio Stun/Revive	26
9.4	Radio Kill/Active	28
9.5	Remote Monitor	29
9.6	Scan.....	30
9.7	GPS	33
10	Troubleshooting.....	34

1 Unpacking and Checking

Please unpack carefully and check all the items listed in the following table before discarding the packing material. If any damage or loss occurs during shipment, please contact your dealer.

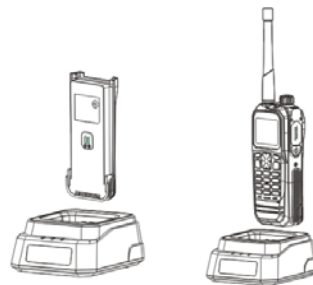
ITEM	QUANTITY
Two-way radio	1
Antenna	1
Battery	1
Belt Clip	1
Charger	1
Power Adapter	1
Instruction Manual	1



2 Preparing Your Radio for Use

Charging battery process is as follows:

Plug the adapter into the suitable AC socket, and connect the adapter with the charger base. Then the Green LED lights on. Place the battery or the radio with battery into the charger, then Red LED lights on and starts charging the battery. When completed, the Green LED will light. The charging period of empty battery is less than 5 hours.



Note:

- For best performance, please charge the new battery at least for 14 to 16 hours before initial use.
- KB-77B Li-on battery of Kirisun is applicable to this radio.
- Do not recharge the battery if it is not in low battery status; otherwise, it will affect the battery's life and performance.

2.1 Installing the Battery

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



2.2 Removing the Battery

Press the battery latch upside slightly, and pull the battery back until it is separated from the radio.

Note:

Do not short-circuit the battery terminals.

Do not disassemble the battery casing by yourself.

2.3 Installing the Antenna

Set the antenna in its receptacle and turn clockwise to fasten it.

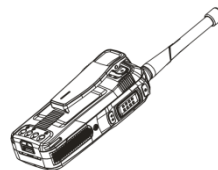
To remove it, please rotate it counter-clockwise.

2.4 Installing the Audio Accessory/Programming Cable

Align the plug with accessory jack, and fasten the screw.

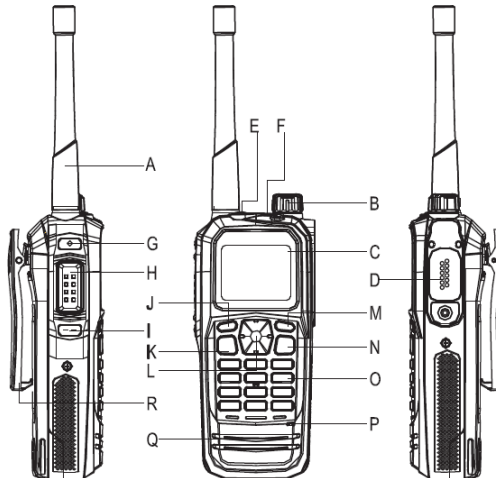
2.5 Installing the Belt Clip

Align the screw holes on the belt clip, which is located on the back of the radio, and fasten them with the screwdriver. To remove the belt clip, loosen



the screws.

2.6 Getting Started



- A. Antenna
- B. Volume/Channel Knob

Rotate the knob to adjust the volume.

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

C. LCD Display

160*128, 65K colors, 1.8 TFT LCD.

D. Universal Connector for accessories

Connect USB programming cable, earphone or some other accessories.

E. Top Key (TK)

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

F. LED Indicator

G. Side Key 1 (SK1)

Programmable, default: none.

H. PTT Key

I. Side Key 2 (SK2)

Programmable, default: none.

J. Left Key

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

K. Dial Key

Press the key to send the data or text messages.

- L. 4-way Navigation Key
- M. Right Key
Press the key to select the items shown at the bottom right of the screen.
- N. ON/OFF/Hookoff Key
Return back to the standby screen. Long press the key to turn on/off the radio.
- O. Numeric keypad
- P. MIC
- Q. Speaker

3 Basic Operation

3.1 Powering ON/OFF

In the power OFF status, long press the ON/OFF key to turn on the radio. The LCD displays Kirisun Logo, then the backlight turns on automatically and a beep sound is heard.

In the power ON status, long press the ON/OFF key until Powering off screen exists.





3.2 Adjust the Volume/Channel

After the radio power on, rotate the volume knob clockwise to increase radio volume or counter-clockwise to decrease the volume.

Short press the key, the knob function switches from adjusting the volume to changing the channel. If there is no operation for a period, the radio will automatically return to the volume adjustment function.

3.3 PTT Key



There are two functions for the PTT key:




- (1) During a call, press the PTT key to transmit to other radios in the call.
- (2) While a call is not in progress, press the PTT key to make a new call.

Note:












- During a call, press and hold down PTT to speak.
- Release the PTT will let the radio enter receiving status.
- You can't press the PTT to speak when others are talking.








3.4 Menu Operation

- (1) In standby mode, press  key to enter the main menu.
- (2) Press  key to navigate one specific menu item.




- (3) Press  key to select and enter this menu item.
- (4) Press  key to return to the previous menu or return to the standby screen.
- (5) Press  key to return to the standby screen.

3.5 Icon Indication

-  Signal strength indication (RSSI)
The number of bars indicates the received signal strength. Four bars are the strongest.
This icon is only displayed during receiving.
-  Battery indication
Indicates the battery's remaining capacity.
-  High power
-  Low power
-  Speaker is muted.
-  There is new message/unread message.
-  Message inbox is full.
-  Keypad is locked.
-  Emergency alarm mode.
-  Encryption is enabled.
-  Man down is enabled.

-  Alarm clock is active.
-  Talk-around mode is active for repeater mode; or the current channel is direct mode.
-  GPS feature is available and the radio is receiving valid GPS data.
-  GPS feature is available, and has got valid location information.
-  Scanning is in process.
-  Scanning stops on a non-priority channel.
-  Scanning stops on a priority channel.

ID Type:

-  Private call.
-  Group call.
-  All call.

Menu:

- This item is selected.
- This item is not selected.

3.6 LED Indicator

Red LED lights on: Radio is transmitting.

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

Orange LED lights on: The radio is in the call hang time period, you can press PTT to talk back while the orange LED lights on.

Orange LED flashes: Radio is in emergency status; or there is a missed call / incoming call alert; or the radio is scanning.

Red LED flashes: Radio is receiving emergency alarm.

4 Transmitting and Receiving a Call

4.1 Initiate a Call to the Default Contact

In the home screen, hold down the PTT key to initiate a call to the default contact which has been set for the current channel in CPS software. The contact can be set to private call, group call, or all call by CPS.

4.2 Selecting a Contact and Initiate a Call

You can also make a call via contacts. Enter contact list menu and select one specific contact, then hold down PTT to initiate a call.





4.3 Manual Dial and Initiate a Call

You can also make a call by "Manual Dial". Enter the "Contacts" menu and then enter "Manual Dial" sub-menu, directly enter contacts' ID number, and press PTT key to initiate a call.

4.4 Receiving and Answering the Call

Procedure:

When a call is received in the standby mode:

- 1) Green LED indicator lights on.
- 2) The call type (private call icon , group call icon , all call icon ) , alias or ID and incoming call icon  is displayed on the LCD.
- 3) Voice will be heard.
- 4) You can hold down PTT to call back to current contact within the hang time duration.



Note:

To receive a group call, your radio must be configured as part of that group. (Dealer set it via CPS). You cannot respond to an All Call.

4.5 Selecting a Zone

A Zone is a group of channels exhibiting the same property, allowing users quickly switch from a channel group to a different channel group. The radio can be set to have up to 248 zones, each with a maximum of 128 channels.

You may select a zone through the following way:

- 1) Press  key to enter the main menu.
- 2) Select  zone item and enter the zone menu.
- 3) Use "up/down" key to select your desired zone.

4.6 Switching between Digital and Analog Channels




Each channel can be configured as a digital channel or an analog channel. Rotate the channel knob to switch between digital and analog channels.



When switching from a digital channel to an analog channel, some functions are unavailable, which may include short message, GPS, and etc.

5 Text Message

DP770 can send / receive short messages. The maximum number of characters for short message is 300.





5.1 Writing and Sending a Text Message

- 1) Press  key to enter the main menu.
- 2) Select " Messages" item and enter the Message menu.
- 3) Select "New Message", enter the Edit menu.
- 4) In the short message Edit menu:
 - a) The cursor shows the current edit position.
 - b) Enter the text content from the keyboard.
 - c) Press  key to move the cursor to left and right.
 - d) Press "#" to switch "input methods", Press "*" to switch capital letter and lower case.
 - e) Press "1" to enter punctuation in Non-digital mode.
 - f) Press the "delete" key to delete a character before the cursor.


- 5) After a short message editing is finished, press  key to confirm.
- 6) Select "Send" to enter the contact selection screen.
- 7) Select the target contact, press  key to send.
- 8) If the message has been sent, a tone sounds and the display shows "success".
- 9) If the message has not been sent, a low tone sounds and the display shows "fail".
- 10) The display go back to the Text Message menu.

5.2 Sending a Quick Text Message

DP770 supports a maximum of 10 Quick Text Messages. While Quick Text Messages are predefined, you can also edit each message before sending it.

- 1) Press  key to enter the main menu.
- 2) Select  Messages" item and enter the Message menu.
- 3) Select "New Message" to enter the Edit menu.
- 4) In Short message Editing menu, Press  key to confirm.
- 5) Select "Quick Text";
- 6) Select a predefined shortcut message from the list, press  key to go back to the Edit menu.

5.3 Receiving Text Messages

When your radio receives a short message, LCD indicates a new message received, and the status bar shows unread message icon .

You can enter "Inbox" to read a short message through the main menu.

6 Emergency

In case of danger, you can send an emergency alarm / emergency call to ask for help from your companion or control centre. You can send the emergency call at any time, even when your radio is in receiving status.


The radio supports the following three emergency alarm modes:



- 1) Emergency alarm only;
- 2) Emergency alarm with call;
- 3) Emergency alarm with voice to follow.

For each emergency mode, there are four emergency status indication types:

- 1) Alarm only—in emergency mode, emergency alarm tone will sound on the radio.
- 2) Regular—the radio transmits the emergency alarm, with audio and LED indication.
- 3) Silent—the radio sends out the emergency alarm, without any audio and the LED indication. Even when the radio receives the answer, its speaker is mute until the PTT key is pressed.
- 4) 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.

6.1 Sending an Emergency Alarm




- 1) Press the key programmed as "Emergency On" and the LCD displays . The LCD will display

- alarm group alias/ID, the emergency alarm icon  and this icon .
- 2) When an emergency alarm acknowledgment is received, the radio's LCD will display "Emergency Alarm Successful".
 - 3) Or if not received, and the retry times is over, the LCD indicates that "Emergency Alarm Failed".
 - 4) The radio exits Emergency Alarm mode, and return to the standby screen.

6.2 Sending an Emergency Alarm with Call

This feature allows you to send an emergency alarm to another radio. Once acknowledgement, both radios can communicate with each other on the emergency channel by holding down the PTT.




Procedure:

- 1) Press the emergency on button.
- 2) The LCD displays  icon, alarm group alias/ID, the emergency alarm icon , and outgoing icon .
- 3) When an emergency alarm acknowledgment is received, the LCD shows "Emergency Alarm Successful".
- 4) Press PTT to make a call. Release PTT to listen.
- 5) You can press "Emergency Off" button to exit emergency mode. The radio will return to standby screen.

6.3 Sending an Emergency Alarm with Voice to Follow

This feature allows you to send emergency alarm to others, upon acknowledgement, the microphone of the radio will be automatically activated without pressing PTT.

Procedure:

- 1) Press the emergency on button.
- 2) The LCD displays  icon, alarm group alias/ID, the emergency alarm icon  and outgoing icon .
- 3) When an emergency alarm acknowledgment is received, the LCD will show "Emergency Alarm Successful".
- 4) The microphone of the radio will be automatically activated without pressing PTT until Hot Mic duration expires. Press the PTT to transmit again.
- 5) You can press "Emergency Off" button to exit emergency mode. The radio will return to standby screen.

Note:



- If your radio Emergency Alarm type is set to be Silent or Silent with Voice, there is no audio and indicators in Emergency Alarm mode.
- If your radio Emergency Alarm mode is set to be Emergency Alarm with Call, the two sides can communicate with each other on the current Emergency channel.
- If your radio Emergency Alarm mode is set to be Emergency Alarm with Voice to follow, this will let you communicate with others without needing to press PTT. This status of Mic automatically switching on is called "Hot Mic Status". (Dealers can set this status by CPS)

6.4 Receiving an Emergency Alarm

If you enable "Emergency Alarm Indication" for a specific channel, your radio can receive the

emergency alarm on the current channel, or otherwise, the alarm is neglected.

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

- 1) When receiving an emergency alarm, the icon  displays on the LCD screen.
- 2) The caller's alias/ID, the icon , and the emergency alarm type icon display on the LCD. The radio's alarm alert tone sounds periodically, and the Red LED flashes quickly. If you press any key, the tone and LED indicator will disappear.

6.5 Exiting an Emergency Alarm



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

- 1) In emergency alarm mode only, and receive the acknowledgement, or press PTT.
- 2) Or Emergency alarm retry times are over, and no acknowledgement is received.
- 3) Or Press the button programmed as "Emergency off".

7 Call Logs

Your radio keeps track of all recent outgoing, answered, and missed private calls. Call Logs only save the private calls and do not save group calls, all calls. You can view and manage the Call Logs through LCD menu.

7.1 Viewing Recent Calls



- 1) Press  to enter the main menu in standby screen.
- 2) Enter " Call Logs" sub-menu.
- 3) Select and enter recording lists (Dialed Calls\ Answered Calls\ Missed Calls).
- 4) Select your desired records.
- 5) Select "Detail" to view details of this record.
- 6) You can make a call with the contact of this record if you press PTT.

7.2 Store ID to Contact List

- 1) Select the desired record in the call list.
- 2) Select "Save" and enter "Add Contact" screen.
- 3) Enter the contact name.
- 4) Select "OK" to save the contact.

7.3 Delete a Call from the Call List

Delete all Records in the List

- 1) Press  to the main menu in standby screen.
- 2) Enter " Call Logs" menu.
- 3) Select and enter your desired lists (Dialed Calls\ Answered Calls\ Missed Calls).
- 4) Select "Delete All".

- 5) Select "OK" to delete all the records of the list.

Delete a single Record



- 1) Select the target record in the call list.
- 2) Select "Delete".
- 3) Select "OK" to delete this record.

8 Common Settings

8.1 Radio Settings



Setting Language

You can switch the display language of the radio.

- 1) Press  to the main menu in standby screen.
- 2) Enter " Setting" menu.
- 3) Select "Radio Setting".
- 4) Enter the "Language" sub-menu to switch language.



Tone Settings

You can enable / disable the tone, and can adjust the tone volume.

- 1) Press  to the main menu in standby screen.
- 2) Enter " Setting" menu.
- 3) Select "Radio Setting".
- 4) Select "Tone Setting".
- 5) Select "Tone Switch" to turn on / off the tone and "Tone Volume" to adjust the tone volume.
 - "Disable All", turn off all tones.
 - "Enable All", turn on all tones.
 - "Calling", turn on/off call tone.
 - "Private Call Tone", turn on/off Private Call Tone.
 - "Group Call Tone", turn on/off Group Call Tone.
 - "Keypad", turn on/off Keypad Tone.
 - "Message", turn on/off Message Tone.

Power Level Setting



You can set high / low power for each channel.

- 1) Press  to the main menu in standby screen.
- 2) Enter the " Settings" menu.
- 3) Select "Radio Setting" sub-menu.
- 4) Select "Power Level" setting.

- 5) Switching "high" / "low" power to set the new power level.



Squelch Level Setting

You can adjust the radio's squelch level to filter out useless calls under weak signal.

- 1) Press  to the main menu in standby screen.
- 2) Enter the " Settings" menu.
- 3) Select "Radio Setting".
- 4) Select "Squelch Level" setting.
- 5) Switch to the desired squelch level.

Vibration Setting

You can enable and disable vibration function.



- 1) Press  to the main menu in standby screen.
- 2) Enter the " Settings" menu.
- 3) Select "Radio Setting".
- 4) Select "Vibrate" to turn on / off the vibration.
 - "Disable All" to disable all the vibration.
 - "Enable All" to enable all the vibration.
 - "Call Alert", turn on/off call alert vibration.

- "Calls", turn on/off call vibration.
- "Messages", turn on/off message vibration.
- "Emergency In ", turn on/off Emergency In vibration.
- "Alarm Clock", turn on/off alarm clock Vibration.

Keypad Lock Setting

You can lock the keypad to prevent misuse.

Lock the Keypad Manually

- 1) Press  to the main menu in standby screen.
- 2) Enter the "Settings" menu.
- 3) Select "Radio Setting".
- 4) Select "Keypad Lock" setting.
- 5) Select "Lock Keypad", and LCD display shows "OK".


Lock the Keyboard Automatically

- 1) Select "Auto Lock" in the "Keypad Lock" setting.
- 2) Select the delay time of auto lock.
- 3) If you do not operate the keypad during the delay period, the keyboard will be locked automatically.

Lock the Keyboard Shortcuts



Long Press "*" key will lock the keyboard in any screen.

Unlock the keypad

- 1) Press  to select "unlock" under Keypad lock mode.
- 2) Press "*" to unlock the keypad.



LED Indications

You can turn on / off the LED indications according to your request.

- 1) Press  to the main menu in standby screen.
- 2) Enter the " Settings" menu.
- 3) Select "Radio Setting".
- 4) Select "LED Indications" to turn on / off LED.



VOX

You can enable / disable VOX function.

- 1) Press  to the main menu in standby screen.
- 2) Enter the " Settings" menu.
- 3) Select "Radio Setting".
- 4) Select "VOX Setting" to enable / disable VOX.

8.2 Radio Information

You can get device information of your radio via the menu.



- 1) Press  to the main menu in standby screen.
- 2) Enter the "Settings" menu.
- 3) Select "Radio Info" to view of the Radio ID, serial number, firmware version, hardware version, CPS version, and so on.

9 Advanced Functions

9.1 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 checked radio. The checked radio silently sends back an acknowledgement to the checking radio.

Sending a Radio Check

- 1) Press  to the main menu in standby screen.
- 2) Enter the "Contacts" menu.
- 3) Select the "Contact Lists", select desired private call contact.
- 4) Select "Radio Check".
- 5) The desired ID/alias displays on the LCD, indicating that the radio check command is sending, and the red LED indicator lights on.
- 6) Wait for the acknowledgement.

- 7) If the checked radio is active in the system and sends acknowledgement, the transmitter's LCD displays "Radio Check Success", or otherwise "Radio Check Failed".

Note:

- During the radio waiting for acknowledgement period after "Radio Check" command being sent out, the radio can terminate the command and exit "Radio Check" mode by pressing  key.
- Or if the retry times of sending "Radio Check" command reach its maximum times, the radio will automatically exit this mode and displays " Radio Check Failed ".


9.2 Call Alert


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

Receiving and Answer the Call Alert


- 1) When the "call alert decode" is enabled and receiving a call alert, the radio will automatically answer the call.
- 2) The LCD displays "Call Alert" with the caller's alias/ID.
- 3) The call alert tone will sound periodically, and the orange LED flashes.
- 4) Press the PTT key to call back the caller, or press other keys to neglect the call alert.

Sending a Call Alert

- 1) Press  to enter the main menu in standby screen.

- 2) Enter the "Contacts" menu.
- 3) Select the "Contact Lists", select the desired private call contact.
- 4) Select "Call Alert".
- 5) The desired ID/alias displays on the LCD, indicating that the call alert is sending out, and the red LED lights on.
- 6) Wait for the acknowledgement.
- 7) If the acknowledgement is received, the LCD displays "Call Alert Successful", or otherwise displays "Call Alert Failed".

Note

- During the radio waiting for the acknowledgement period after the "Call Alert" command being sent out, the radio will terminate the command and exit "Call Alert" mode by pressing  key.
- Or if the retry times of sending "Call Alert" command reach its maximum times, the radio will automatically exit this mode and displays "Call Alert Failed".

9.3 Radio Stun/Revive

This function allows you to send the "Radio Stun/Revive" command to Stun/Revive another radio. The stunned radio can't make or receive calls. The radio can only be revived again by an authorized administrator radio, which can send the "Radio Revive" command to the stunned radio. After revived, the radio can work as normally as before. This function is used to prevent unauthorized usage of the radios or any usage of the lost radios.



Receiving a Radio Stun/Revive

After receiving the "Stun/Revive" command correctly, the radio will automatically reply "Successful ACK". Otherwise it will reply "Failed ACK" information.


The stunned radio stays on the standby screen, only displaying the channel alias, group alias, and "Status of Stunned" information. The stunned radio can only receive "Radio Revive" command. In addition, it will neglect all of the keyboard operations except ON/OFF key operation.

If the stunned radio has been revived successfully, it will go back to the normal work status from stunned status.

Sending a Radio Stun/Revive

- 1) Press  to the main menu in standby screen.
- 2) Enter the "Contacts" menu.
- 3) Select the "Contact Lists", select the desired private call contact.
- 4) Select "Radio Stun/Revive".
- 5) The desired ID/alias displays on the LCD, indicating that the "Radio Stun/Revive" command is sending out, and the red LED lights on.
- 6) Wait for the acknowledgement.
- 7) If the successful ACK is received, the LCD displays "Disable/Enable Request Successful". Otherwise it will display "Disable/Enable Request Failed".

Note:

- During the radio waiting for the acknowledgement period after the "Radio Stun/Revive" command being sent out, the radio can terminate the command and exit "Radio Stun/Revive" mode by pressing  key.
- Or if the retry times of sending "Radio Stun/Revive" command reach its maximum times, the radio will automatically exit this mode and displays "Disable/Enable Request Failed".

9.4 Radio Kill/Active

This function allows you to send the "Radio Kill" command to kill another radio. The killed radio will delete the main programmed parameters and power off automatically, and it can't work even if power on again.

The killed radio only can be activated by authorized dealer or manufacturer.

This function is used to prevent any usage of the lost radios and illegal reading of programming parameters.

Note:



- Once the radio is killed, the programmed parameters will be lost, and the radio can't work again.
- The killed radio only can be activated by authorized dealer or manufacturer.

Receiving a Radio Kill

After receiving the "Kill" command correctly, the radio will automatically reply "Successful ACK". Otherwise it will reply "Failed ACK" information.

The killed radio will delete the configured parameters and power off automatically.



Sending a Radio Stun/Revive

- 1) Press  to the main menu in standby screen.
- 2) Enter the "Contacts" menu.
- 3) Select the "Contact Lists", select the desired private call contact.
- 4) Select "Radio Kill".
- 5) The desired ID/alias displays on the LCD, indicating that the "Radio Kill" command is sending out, and the red LED lights on.
- 6) Wait for the acknowledgement.
- 7) If the successful ACK is received, the LCD displays "Radio Kill Successful". Otherwise it will display "Radio Kill Failed".

9.5 Remote Monitor


This function is used to turn on the microphone of a target radio. There is no visible or audible indication on the target radio. You can use this function to remote monitor any audio activities around the target radio.

Sending a Remote Monitor

- 1) Press  to enter the main menu in standby screen.
- 2) Enter the "Contacts" menu.
- 3) Select the "Contact Lists", select the desired private call contact.
- 4) Select "Remote Monitor".

- 5) The desired ID/alias displays on the LCD, indicating that the remote monitor command is sending out, and the Red LED lights on.
- 6) Wait for the acknowledgement.
- 7) If the successful ACK is received, the LCD displays "Monitor Successful". Otherwise it will display "Monitor Failed".
- 8) If the "Remote Monitor" command is successful, the radio starts receiving audio from the desired radio for the programmed duration of CPS.

Note






- During the radio waiting for the acknowledgement period after the "Remote Monitor" command being sent out, the radio can terminate the command and exit "Remote Monitor" mode by pressing  key.
- Or if the retry times of sending "Remote Monitor" command reach its maximum times, the radio will automatically exit this mode and displays "Remote Monitor Failed".

9.6 Scan

Scan feature allows you to receive voice / data from different channels. The radio supports up to 128 scan list, each having 16 channels at its maximum. The radio supports analog, digital, or mixed analog/digital mode scanning. You can have different scan lists for different channels.

You can add, delete channels in the scan list, or set the priority channels by editing the scan list.

Viewing Scan List

- 1) Press  to enter the main menu in standby screen.
- 2) Enter the "Scan" menu.
- 3) Select "Scan List" to view the members in Scan List ( Represents priority channel 1,  Represents priority channel 2,  Represents non-priority channels).

Note

- A scan list may contain two priority channels at most and each priority can have a channel. If priority channels are not set, the corresponding entry of LCD will not be displayed.

Adding a Scan Channel

- 1) Select "Add" in "Scan List".
- 2) In the available channel list, select the desired channel, and add to the scan list.



Deleting a Scan Channel

- 1) Select a desired channel in "Scan List".
- 2) Select "Delete" to delete the desired channel from the scan list.

Editing the Priority Channel

- 1) Select desired channel in "Scan List".
- 2) Select "Setting priority channel 1" to set the desired channel as priority channel 1.
- 3) The setting process of priority channel 2 is the same as priority channel 1.

Start and Stop Scanning

- 1) Press  to enter the main menu in standby screen.
- 2) Enter the "Scan" menu.
- 3) Switch to start and stop scanning.

Note

- During scanning process, radio can only receive data (short message, GPS, telemetry or PC data) and digital signaling on the selected channel.

Respond to Transmission during Scanning

During scanning, when the channel activity is detected, the radio will stay on the current channel. Residence time period in the current channel is called "scan dwell time".

- 1) Keep the microphone 1 to 2 inches distance from the lip.
- 2) Press PTT during the scan dwell time period, and the red LED will light.
- 3) Wait for the "call allow tone" to finish (if enabled), speak against the microphone.
- 4) Release PTT if you finish talking or want to listen to others.
- 5) If you do not respond within the scan dwell time period, the radio will go back scanning next channel.

Delete a Nuisance Channel

If interference or noise continually appears in a channel, you can press the "nuisance channel

delete" key to temporarily remove the channel from the scan list.



Note

- You can't delete all of the priority channels and the selected channel at the same time. And you can't delete the last channel in the scan list. That is, for any scan list, there should be at least two channels. Otherwise the radio can't enter scan status.

9.7 GPS

If "GPS" feature is enabled on your radio, it can display the location information. And it can also provide location updates to the location application server.

View Location Information

- 1) Press  to enter the main menu in standby screen.
- 2) Enter the "GPS " menu.
- 3) Select "Position Information" to view Date\Time\Latitude\Longitude\Satellites information.

10 Troubleshooting

No.	Problem	Causes and Solutions
1	The radio cannot be powered on.	<p>A. The battery may be used up. Recharge it or change the battery to try again.</p> <p>B. The power ON/OFF key may suffer from poor contact. Clear the metal dome with alcohol and try again.</p> <p>C. The power binding post isn't connected with battery. Re-install it and try again.</p> <p>D. The power is connected inversely which leads to the power protective tube F901 open. Replace the protective tube F901 and try again.</p>
2	You cannot communicate with other members	<p>A. The frequency settings may be different from others. Set your TX/RX frequencies to be the same as others.</p> <p>B. The CTCSS/CDCSS signaling may be different from others. Set your CTCSS/CDCSS signaling to be the same as others.</p> <p>C. Your place may be too far away from the others, beyond the radio's coverage area.</p>

3	The radio cannot receive signals	A. The antenna may get looser or may be improperly installed. Re-install the antenna. B. The frequency settings may be different from others. Set your TX/RX frequencies to be the same as others. C. Your place may be too far away from the others, beyond the radio's coverage area.
4	During receiving, LED is green but no voice.	A. Check whether the volume is smallest or not. If so, increase the volume. B. Check whether the speaker is broken or not. If so, change the speaker.
5	GPS cannot locate your position.	A. Check whether the antenna is GPS+UHF dual band or not. If not, use a GPS+UHF dual band antenna to replace the old one. B. Check whether the GPS setting is correct or not. If not, set it correctly. C. Maybe there is some other RF interference around the radio's place. Go to an open sky place and try again.
6	CPS programming failed.	A . Connection between the radio and PC is not good enough. Check and try again. B . Earphone interface board has poor contact with external programming cable. If so, change the Earphone interface board.



Kirisun Communications Co.,Ltd.
<http://en.kirisun.com>