



Instruction Manual V688



# INSTRUCTION MANUAL

V688

Digitalky™ Two-way Radio

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 parities.
- \* 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.

Kirisun Communications Co.,Ltd.

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# V688 Quick Reference



# ■ Brief Description

- 1. Install the antenna.
- 2. Turn on the radio: press down the ON/OFF Key for 3S.
- 3. Select the working mode and you can start operating the radio
- 1) Digital mode

Select a digital channel, and then select the required contact from the "Contact" menu—press the PTT key to make a call and release the key to listen.

If the required contact is the default contact, press the PTT key to make a call and release the key to listen.

**Note:** Please refer to "Menu"→"Call Log" → "Set as Default Contact" the description of Default Contact.

2) Analog mode

Select an analog channel, and then press the PTT key to make a call and release the key to listen.

3) Turn off the radio

Press and hold the ON/OFF key to turn off the radio.



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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 dealer without delay.

Item	Quantity	
Antenna	1	
Battery	1	
Belt Clip	1	
Charger	1	
Power Adapter Power Adapter	WWW.	
Hand Strap	11	
Instruction Manual	1	

# Supplied Accessories















# Battery Information

# Charging Notice

The radio's battery is not fully charged before shipment.

Before the initial use, please charge the battery.

Charging/discharging twice or triple can let the battery capacity in the best status. When the battery is in low power, it needs to be charged or change another battery.

\* Please do not let the terminal of battery in short circuit or throw the battery into fire.

\* To make sure the battery can be full charged, please turn off the radio while charging.

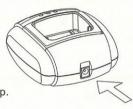
\*\* Please do not put the radio in the charger when it does not need to, charging in cycle will shorten the battery's life time and performance.

※ 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 shorten the battery's life time and performance.

※ You'd better place the battery in 25°C ambient environment. The battery is easy to lose efficiency if long stayed under -10°C environment. % If the temperature is higher than 35°C or lower than -10°C, the electro-discharge will be reduced by the Li battery's physics characters.

# Charging the battery

Plug the power adapter into an applicable AC outlet and connect the power adapter to the battery charger. The green LED will light up.



Insert the battery or the radio into the charger slot. Make sure the battery is well connected with the charger. Then the red  $\stackrel{\mbox{\tiny P}}{\bowtie}$ 

LED will light up, it indicates that the charging starts.

When the LED light green, it indicates the battery has been full charged.





# Accessories Installation

# ♦ Installing/Removing the Battery

Turn off the radio, install 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. Before moving the battery pack, please check the radio has been turned off and then push the battery latch upwards, and then remove the battery away from the radio.

### Installing:

① Install the two bulges at the bottom of the battery pack with the corresponding slots at the rear bottom of the radio.

② Push the top part of the battery towards the radio to lock it until a click is heard.

# Removing:

Make sure the radio has been turned off, and then push the



② Pull up the top of the battery, and then remove it away from the radio.

# ♦ Installing/Removing the Antenna

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

Otherwise, turn the antenna anti-clockwise and remove it.

# Installing:

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

# Removing:

Hold the base of the antenna and turn the antenna anti-clockwise and remove it.

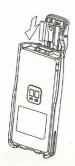






# ♦ Installing/Removing the Belt Clip

Match the grooves of the belt clip to the rear top of the battery. Then press the belt clip downwards until it's tightened.







# Installing the External Speaker/MIC

Open the cover for external speaker/MIC jacks, and then insert the external speaker/MIC plug into the jacks on the radio.

When you need to program the radio, insert the plug of the programming line into the USB port which is below the MIC.

# Note:

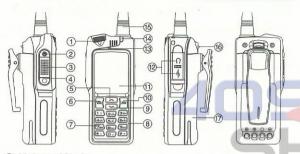
The belt clip can be only installed before the battery is installed.

To remove the belt clip, use your fingernail or a tool to press down the belt clip latch, and push it forward until it separates from the battery.





# Radio Overview



1 Volume Knob

Rotate the knob to adjust the volume.

- ② ON/OFF Key
  Press and hold the key to turn on/off the radio.
- ③ PTT Key
  Press the key and talk to make a call; release the key to listen
- 4 PF Key

The button can be assigned different functions through PC software by dealer. Detailed information refers to the following section of PF Key in this instruction. The default

setting is the shortcut key for Keypad Lock.

**5** Up Key

In the standby status, press the key to move to the next channel. In menu operation, press the key to move to the previous item.

6 Menu Key

In standby status, press the key to enter the menu. In menu operation, press the key to confirm the selected item.

7 Digital Keypad

There are 12 keys. You can use them to enter the numbers you want to dial, edit the message or edit the contact.

- Speaker
  Output the voice.
- Down Key

In the standby status, press the key to move to the previous channel. In menu operation, press the key to move to the next item.

10 Cancel Key

In menu operation, press the key to cancel the operation or return back to the previous menu.



# 11 LCD Display Screen

Display and indicate the operation status. Details refer to the following "LCD Display Screen" in this instruction.

@ External Speaker/Earphone Jack

Used to connect speaker/Earphone, programmable wire connector

Microphone Input voice

(4) LED Indicator
Indicate the operation status. Details refer to the following
"LED Indicator" in this instruction.

- (5) Antenna
- 16 Battery Latch
- 17 Battery Pack

PF Keys

The dealer can program the following keys as function shortcut keys:

Long press and short press are both available: PF key

Short press: ON/OFF key

Long press: Menu key, Cancel key

Note:

Short press: press the key and release it soon; Long press: press and hold the key for at least 2 S.

# Programmable functions:

- None: No feature will be assigned.
- \* Home screen: Return to the Home screen in menu status.
- \* Power Level Adjust: High/Low power switch.
- Call Log: To display the call records.
- \* Monitor: If the current channel is configured with

CTCSS/CDCSS, the CTCSS/CDCSS will be canceled and the radio switches to carrier squelch mode when press the key, which means if the carrier received matches with the frequency of the current channel, the radio sounds. Press the key again to return to the default setting.

 Emergency Alarm ON: Allows the user to set up an emergency call to seek help under the emergency condition.



- \* Emergency Alarm Off : Allows the user to terminate an outgoing emergency call.
- \* Keypad Lock: Lock/Unlock the keypad to avoid disoperation. In keypad lock states, no key is available except PTT key and Emergency Alarm key.
- \* Squelch on/off: Turn on/off the squelch function. The weak signal can be received on the analog channel.
- \* Squelch Level Adjust: Allows the user to set the Squelch Level. The higher squelch level that is selected, the harder to receive weak signals, but the more rarely disturbed by noise.
- Contacts: Allows the user to access the Contacts list directly to make a call or initiate any supplementary call features.
- \* Scan: Turn on/off scanning function to search the communication activity on the other channels.
- \* Nuisance Channel Temporary Delete: Delete the unwanted channels during the scan.
- \* Radio Kill: Make the target radio unable to work
- \* Radio Unkill: Make the killed radio reactivated and

#### reworked

- \* Whisper: Turn on/off whisper function. If this function is enabled, the receiver can hear the voice from the transmitter clearly even the voice is very low.
- \* VOX: Activate transmitting through voice induction, without pressing PTT key.
- \* Battery Display: Display the residual capacity of the battery.
- \* Zone up: Switch to the previous zone.
- \* Zone down: Switch to the next zone.

# LCD Display Screen

Signal Strength	Ton	No signal
Indication	TT TT	The more bars, the stronger signal.
Message	8	There is unread message in the inbox.
		The inbox is full.
Scan	9	The radio is in scanning status.
Power	L	The transmission power of the current channel is low.



	Н	The transmission power of the current
	-	channel is high.
Keypad Lock	A	Indicate that the Keypad is locked.
Squelch off	<b>(10</b> )	Display when pressing the Squelch
	5500	on/off shortcut key.
Emergency	A	The radio is in emergency alarm
Alarm		status (except secret alarm), or
		receives emergency alarm.
VOX	VOX	Display when Voice control function is
		enabled.
Battery Display		Indicate the residual capacity of the
		battery.
Private Call	Ħ	Indicate the current number is private
	and the same	call number
Group Call	fi fi	Indicate the current number is group
	11.11	call number
All Call	MAN	Indicate the current number is all call
ating term	111111	number
Call Out	6.	Indicate that the radio is transmitting
	-	signal.

Call In	Com	Indicate that the radio is receiving signal.
Hold on the call	•	Indicate that the call is holding on, without the need to redial.

# ■ LED Indicator

Red LED lights on: the radio is transmitting.

Green LED lights on: the radio is receiving.

Red LED flashes: low battery, the battery needs to be charged.

# Basic Operation

# ♦ Turn on/off radio

In power off state, long press the ON/OFF Key to turn on the radio; in power on state, long press the ON/OFF Key to turn off the radio.

# Adjust the channel

In home screen interface, press the Up Key or Down Key to select the channel, if the Channel Lock function is open, the



channel cannot be switched over.

# Adjust the volume

Rotate the Volume Knob to adjust the volume.

#### ♦ Make a call

On digital channel, the methods to make a call are as below:

- \* Enter the "Contacts" menu, select one contact, then press and hold the PTT key, speak to the MIC.
- \* Enter the "Call Log" menu, and then enter "Call Out" item or "Call In" item, select one contact, press the PTT key and speak to the MIC.
- \* In standby mode, press the PTT key and speak to the MIC. The call out number is the default contact's, which can be programmed by the dealer, or set through menu.
- \* In standby mode, input the number manually, then press the PTT key and speak to the MIC.

On analog channel, press the PTT key and speak to the MIC.

#### Receive a call

When the radio receives signal on the current channel, the signal strength will display on the LCD. On digital channel, the radio output the voice when receiving a call with your own Radio ID or your Group Call ID on this channel; on analog channel, the radio output voice when receiving the call with CTCSS/CDCSS that is the same with CTCSS/CDCSS set up on your selected channel, or there is no CTCSS on the current channel.

#### Answer a call

On digital channel, when the radio receives a call, you can answer the call if pressing the PTT key and speak to the MIC in Group/Private Hold Time. If the call is not answered in Group/Private Hold Time, you need to redial. The Group/Private Hold Time can be set by dealer.

On analog channel, when the radio receives a call, press the PTT key to answer the call directly.



### Menu

Press the Menu key to enter it. The menu items in digital mode are different in analog mode. And the display items can be chosen by dealer in reprogramming.

# Menu in Digital Mode

On digital channel, the items are as below: Structure of the main menu:



### Call Log

Press the Menu key to enter the main Menu, select the "Call Log" menu and press the key again to enter it. Or, press the shortcut key to enter "Call Log" menu.



The radio can record the call in and call out log. If the call log is full, the earliest log will be covered and disappeared when the new call record is saved.

Enter "Dialed Calls" menu or "Received Calls" menu, choose one contact and you can perform the following operations: press the PTT key to make a call, check the detailed information of the contact, add number, send a Status Inquire call, set the contact as the default contact, and delete the call log.

If the Radio Kill or Radio Unkill function is enabled by dealer,



you can also send Radio Kill and Radio Unkill command to the contact.

If you want to delete all the call logs, select "Delete All" item and confirm it.

\* Detailed information:

You can view the detailed information of the selected Call Log.

\* Add number:

You can add the number of the selected Call Log into Contacts list.

\* Status Inquire:

You can send a Status Inquire command to the selected number (only private call contact) to make sure whether the radio has been powered on or is active on the current channel.

\* Kill:

You can send a Kill command to the contact (only private call contact) to make the target radio disabled.

\* Unkill:

You can send an Unkill command to the Radio Killed radio

(only private call contact) to make the target radio enabled.

\* Set as default contact:

The default contact is the contact number which is dialed to make a call by pressing the PTT key directly, without the need to enter the "Dialed call", "Received call" or "Contacts" menu list. Each channel can be set one default contact. The number can be set by dealer through programming or set in the menu. Set as default contact means to set the selected number as the default contact of the current channel.

\* Delete:

Delete the selected call logs.

Contacts

Press the Menu key, select the "Contacts" menu and press the key again to enter it. There are "Add" submenu and all the contacts List in this menu.

\* Contacts list:

You can view the entire contacts list through "Contact"



menu or the Contact List shortcut key. These contacts list can be edited by programming or by inputting manually. Manual input can only be operated in private contact list. (Only the private call contact can be inputted manually.) Enter the Contacts List, choose one contact, you can perform the following operations: press the PTT key to send a call; check the detailed information; send a Status Inquire Call; set this contact as defaulted contact; edit contact; delete contact.

If Radio Kill, Radio Unkill function is enabled by dealer; you can also send Radio Kill or Radio Unkill command to the contact.

About the descriptions of Status Inquire, set as default contact, Radio Kill, Radio Unkill, details refer to Call Log Section. And other functions are as below:

Detailed information:

You can check the contact's name, number, and call type. Edit:

You can edit the contact's name, number.

Delete:

Delete the selected contact.

\* New contact:

You can create a contact into the contacts list. The contact number is made up of 7 digits.

• Scan

Press the Menu key, select the "Scan" menu and press the key again to enter it.



\* Start:

In order to receive calls from different channels, the radio can be programmed to scan these channels. Select the "Start" item and confirm it to start scanning, and press the Cancel key to stop scanning.

\* Scan List:

Each channel can correspond to one Scan List by dealer's programming. Only the channel which is set in the "Scan List" item can start scanning. And each Scan List includes 16

channels at most, with both digital and analog channel. By selecting "Scan List" item and confirming it, the channel included in the Scan List of the current used channel can be checked, added or delete.

Attention: If the channel included in the Scan List is changed, the other channels which related to the Scan List will be influenced.

In scanning status, press the Menu key, the following menu will be displayed:

Scanning
Scan List
Add Temp CH
Delete Temp CH

\* Add/Delete Temp Channel

During scanning, if the radio stops on an unwanted channel, such as nuisance channels, the unwanted channel can be temporarily deleted by selecting Delete Temp Channel function, and then the scan continues. And also, you can temporarily add a channel by selecting Add Temp Channel

function.

After existing scanning mode, the temporarily added or deleted channel is invalid. The scan list resumes its original channel.

Messages

Press the Menu key, select the "Messages" menu and press the key again to enter it.

Write Message

Template

Inbox

Outbox

Drafts

\* Write Messages:

You can write a new message to send. The target contact can be chosen from the Contact List. The message can also be saved into Drafts, and the template message can be



inserted while writing a new message.

### \* Template:

There are some template messages programmed by dealer, you can send these massage directly if you like.

#### \* Inbox:

The inbox stores the received messages. If there's a new message, will be displayed in the home screen; if the inbox is full, will be displayed. If the inbox is full, the earliest received messages will be covered and disappeared after receiving a new message. You can perform the following operation in Inbox: check the detailed information; reply; forward and delete. Steps of deleting all messages in the inbox: Inbox ->inbox list->press the Menu key->Select "Delete All" item.

### \* Outbox:

The outbox stores the sent messages. If the outbox is full, the earliest sent messages will be covered and disappeared after sending a new message. Steps of deleting all messages in the outbox: Outbox ->outbox list->press the Menu key->Select "Delete All" item.

#### \* Drafts

The draft box stores the draft messages. If the draft box is full, the earliest draft messages will be covered and disappeared after saving a new draft message. You can perform the following operation in the Drafts: send, edit and delete. Steps of deleting all messages in the Drafts: Messages->Drafts-> press the Menu key->Select "Delete All" item.

### Zone Select

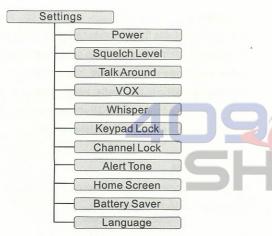
A group of channels makes up a zone. You can choose the zone you want through this menu.

# Settings

The radio's working parameter can be set as customer's need, including Power, Squelch Level, Talk Around, VOX, Whisper, Key Lock, Channel Lock, Alert Tone, Home screen, Battery Saver and Language.

These parameters are shown as the menu below:





\* Power:

The channel's power can be set as High or Low. High power is useful in long distance communication, but the battery's working time will be lessened. H refers to high power, L refers to low power. Each channel's power level can be set separately.

\* Squelch level:

The radio's squelch level can be set from 0 to 9. If the

squelch level is higher, the radio is affected less by noise, but harder to receive weak signal. If the squelch level is lower, the radio is easier to receive weak signal, but easier affected by noise.

\* Talk Around:

You can set the Talk Around function on/off. When the function is on, it means that the radio is working in direct mode. When the function is off, it means that the radio is working in repeater mode.

In direct mode, the radios can communicate directly, without the need to transfer the signal through the repeater. In repeater mode, the communication should be realized by the repeater transferring the signal.

\* VOX:

VOX means that the radio starts transmitting by voice induction. You can set the VOX on/off, and the voice sensitivity can be set from 1 to 5 (VOX Level 1 to VOX Level 5). The lower the voice volume, the easier is affected by noise.

\* Whisper:



You can set whisper function on/off here. Whisper function can make the receiver hear clearly even if you speak in a low voice to MIC.

Keypad Lock

You can set keypad lock function on/off here. If the function is enabled, the keypad will be locked automatically. And only the PTT key, Emergency Alarm key and Keypad Lock shortcut key are available when the keypad is locked.

\* Channel Lock:

You can set channel lock function on/off here. If the Channel Lock function is enabled, the channel cannot be switched.

\* Alert Tone:

You can set alert tone function on/off the alert tone here.

\* Home Screen

You can set the content of Home Screen, including channel number, channel frequency, channel name, zone number and zone name.

\* Battery Saver

You can set battery saver function on/off here. This function

can prolong the battery's working time when enabled.

\* Language:

"Chinese" item or "English" item can be chosen.

· APPs



Calendar is available under this menu.

### Channel Information

You can check the channel mode, TX frequency, RX frequency and privacy state in this menu item. (Digital mode)

#### Radio Information

The radio's following information can be checked: the radio ID, model name, firmware version, data version and frequency range.

### Menu in Analog mode

In analog channel, there are Scan, Zone Select, Settings, Apps, Channel Info, and Radio Info in the main menu. The contents of Scan, Settings and Radio Info are the same as on



digital channel. (Refer to: Menu in digital mode)

The current channel's frequency and CTCSS can be checked through checking the Channel Info menu item.

# Functions and Operations

# ♦ Keypad Lock

If the keypad is locked, the keys have no reaction when pressing key except the PTT key, Emergency Alarm shortcut key and the Keypad Lock key is pressed. Thus, it can avoid changing the current channel and working status unconsciously.

Long press the Keypad Lock shortcut key to lock the keypad, and long press this key or "\*" key to unlock it.

You can turn on this function following these steps:

"Setting" menu → "Keypad Lock" item → select "ON".

#### **♦** Channel Lock

To avoid changing the channel unconsciously, you can follow this step to open channel lock: "Setting" menu

→" Channel Lock" item → select "ON". Thus, there's

no reaction for pressing the Up or Down key under Home Screen, the other keys are valid. You can select "OFF" to turn off channel lock function.

#### **♦** TOT

This function forbids you from occupying the channel for a long time. If the continuous transmitting time exceeds the setting time by dealer, the radio sends out a warning tone and stops transmitting. Release the PTT key to stop the warning tone. After a period of time, which is set by dealer, you can transmit again. And if the radio is programmed with pre–alert function by the dealer, the radio will send out an alert before the time out timer expires.

### **♦ Channel Scan**

Press the Scan shortcut key to start scanning. During scanning, the radio checks every channel in the scan list and stops on the channel which a signal is detected. There are time-control and carrier-control scanning mode, which has been preset by your dealer.



\* Time-control scan

During scan, the radio checks and stops on a busy channel. The stop time can be set by dealer. Then, the radio continues scanning, regardless of the channel is busy or not.

\* Carrier-control scan

During scan, the radio checks and stops on a busy channel. Then the radio continues scanning until the channel is not busy for a while (this time is set by dealer, which is named as Scan Hold Time).

Steps to start scanning: press the Scan shortcut key -> select "Start" item. The radio scans the channels in the current scanning list one by one. During scan, press the Cancel key or Scan shortcut key to stop.

\* Scan revert channel

During scan, press the PTT key to make the radio transmit on a default channel. The channel can be programmed by your dealer.

# Messages:

Enter "Messages" menu, you can edit, send, receive, reply,

forward and delete the message.

### **♦** Template

Enter "Messages" menu → select "Template" item, there are some Template to be sent. The Template SMS are preset by dealer.

#### ♦ VOX function

VOX function means the radio can auto-transmit by receiving the voice signal. Enter "VOX" menu through "Setting" menu → select "VOX" item. You can set the VOX Level, and then, III'N will be displayed on LCD. At this moment, you can talk without pressing the PTT key, and the radio returns back to receiving status automatically when you stop speaking.

#### ♦ Kill/Unkill

If dealer enables this function, you can send out Radio Kill command to one radio, and then this radio cannot transmit or receive other signal except receiving Radio Unkill command. Radio Unkill function can make the radio return to normal

function. Refer to the following section to check steps to send out Radio Kill /Unkill command: "Menu in Digital Mode" → "Call Log" and "Menu in Digital Mode" → "Contacts".

### ♦ Emergency Alarm

If you are in danger and this function is enabled, you can press Emergency Alarm On shortcut key to send an emergency alarm.

The means of sending emergency alarm are decided by the following parameters: Alarm Type, which defines the audio and visual reaction when the radio sends an alarm; alarm mode, which defines the content sent to the other members when the radio sends an alarm. The above parameters can be programmed by dealer.

To turn off the Emergency Alarm, press the programmed Emergency Alarm Off shortcut key.

# Alarm Type:

\* None: No alarm function (Default setting); you cannot send an emergency alarm.

- \* Siren Only: The radio only emits siren locally.
- \* Regular: The radio provides audio and visual indication that it is in Emergency mode. And the radio can receive the signal from others;
- \* Secret: No audio and visual indication. And the radio cannot receive the signal from others;
- \* Secret with voice to follow: No audio and visual indication. But the radio can receive the signal from others.

  Alarm Mode:
- \* Emergency Alarm: The radio sends out an emergency alarm, and then exits the emergency alarm status automatically.
- \* Emergency Alarm w/ Call: An emergency alarm is sent, after which an emergency call can be transmitted by pressing the PTT key.
- \* Emergency Alarm w/ Voice to Follow: The radio sends out an emergency alarm, and then sends out background tone periodically and automatically through emergency call.

Note: Emergency Alarm: The radio sends out a signal to



alert other member.

Emergency Call: A priority call on channel, so as to make sure the successful communication under emergency condition.

# Setting operating parameters

You can set the radio's operating parameters. Details refer to "Menu in Digital Mode"  $\rightarrow$  "Settings" section.

# Troubleshooting

No.	Problem	Causes and Solutions	
1	The radio	A. The battery and the radio are not well	
-	cannot be	connected. Please reinstall the battery.	
	switched	B. The fuse of the power supply is burnt out	
	on or no	Please change it.	
	display	C. The power switch is in failure. Please	
	after being	change it.	
	switched	D. The battery is out of power, please	
on. recharge it or change it.		recharge it or change it.	
		E. The CPU is broken, please change it.	

	10 11 10	A. The channel frequency setting is out of		
Phase lock loop		range, please reset the channel data.		
		B. The crystal oscillator of phase lock loop		
	unlocked	is broken, please change it.		
	(Beeping)	C. The oscillating tube is broken, please		
		change it.		
D. The phase lock loop IC is broken,		D. The phase lock loop IC is broken, please		
		change it.		
	Cannot	A. The frequencies of both users are not the		
3	transmit same. Please select the same frequency			
		channel again.		
	III POR IN R	B. The CTCSS/DCS signals of both users		
		are not the same. Please reset it.		
10	hon	C. The radio is out of effective communication		
)	HOP	range.		
		A. The antenna is in poor contact. Please		
4	No signal	fasten the antenna head.		
		B. The HF amplifier is broken, please		
		change it.		
		C. The squelch level is so high that the		



	squelch cannot be opened. Please	
A pull	reset the squelch level.	
	D. The mixer tube is broken, please change it.	
	E. The FM processing IC is broken,	
	please change it.	
The red LED lights	A. The power module is broken, so	
on in transmitting,	there is no power output. Please	
but no voice is	change it.	
heard.	B. The microphone is broken,	
	please change it.	
The green LED	A. The speaker is broken, please	
lights on in	change it.	
receiving, but no	B. The audio amplifier is broken,	
voice is heard. please change a new IC.		
	on in transmitting, but no voice is heard.  The green LED lights on in receiving, but no	

# ■ Specifications

Frequency range	350-390MHz
	400-425MHz
Channel number	256
Channel spacing	12.5kHz (narrow band)
Size (H*W*D)	220mm*54mm*51mm
Operating temperature	-25°Cto +55°C ,
Receiving sensitivity	≤0.25µV
Frequency stability	2.5ppm
TX power supply	5W (UHF)
Max. deviation	±2.5kHz (narrow band)
Max. audio power	≥1000mW
Power supply	DC 7.4V