

# Operation instructions

## USER'S MANUAL



**Professional wireless intercom**  
**PROFESSIONAL FM TRANSCEIVER**

Thank you for choosing our products, please find and read this manual before using. **You will receive** Radio\*1

Antenna-1 pcs, 1 battery, 1 clip & belt, 1 charger, 1 manual. **Charging**

Put battery to the desktop charger and put the plug into the AC Power, then you will see the led light is red which means battery is in charging now.

It will take 3-4 hour to charge full and the led will turn green. And then you can take off the battery and the plug.

### Caution:

As usual, the led of the charger is red when the battery is charging. However, it will twinkle while the battery is broken or charging in a hot environment.

Please don't take the radio with the antenna or knob.

Please clean the dust/spot with a no fuzzing towel, which would avoid poor connect.

Please cover the interface while you don't use the radio.

Please clean the dirty buttons and knob with neutral detergent or wet cloth after long term use, but no strong corrosive chemical reagent.

The batteries do not be full charged when they leave factory. Please charge or take a new one after long time without use. The battery will reach a best level after 2 or 3 times' fully use. You will need to charge or change the battery when it sustains poor capacity.

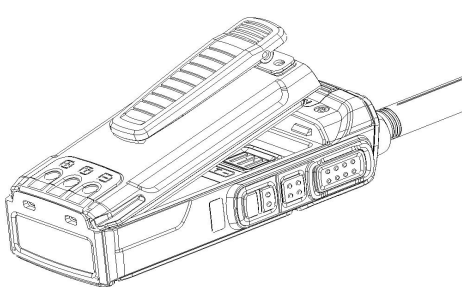
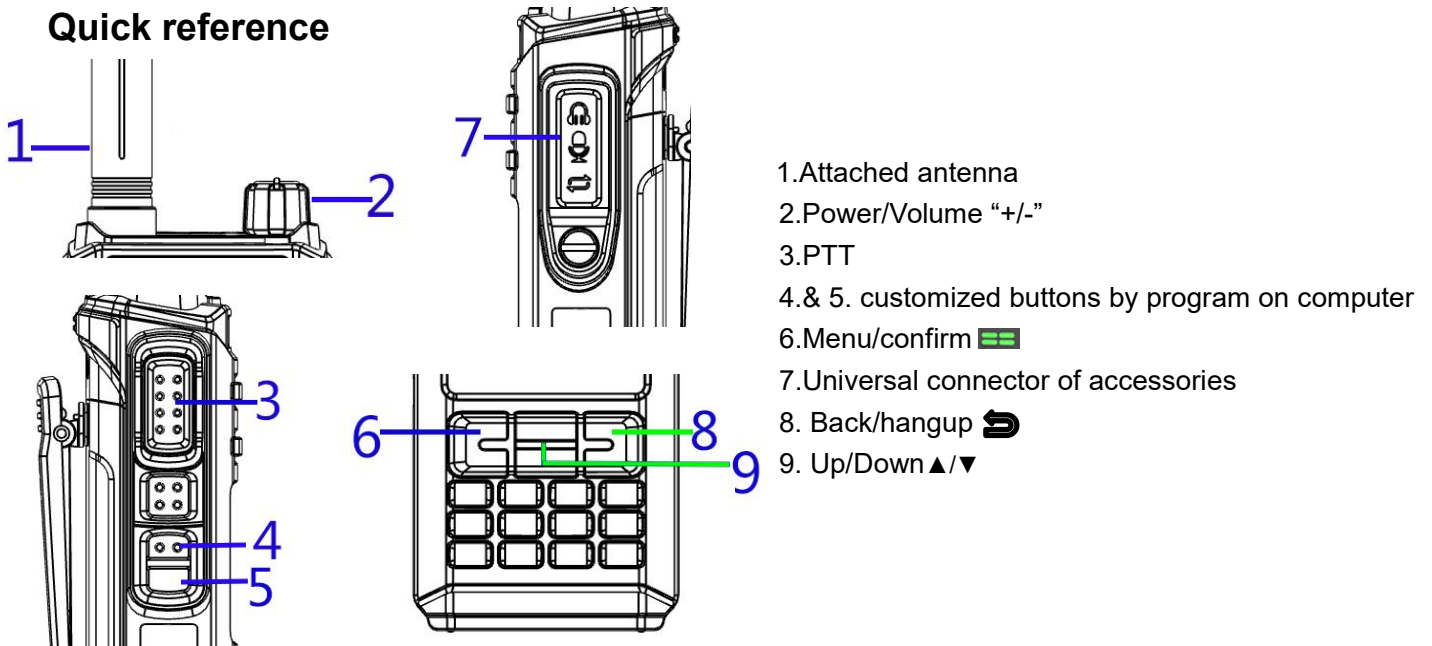
Please don't put battery into fire & disassemble the battery pack. The radio/battery should charge in temperature 0-40°C, otherwise, it might affect the normal use of battery. Don't pull off the power and the battery which may interfere the charging procedure. The life of the battery will be cut down or damaged even though you have followed the correct step of battery use.

### Warning

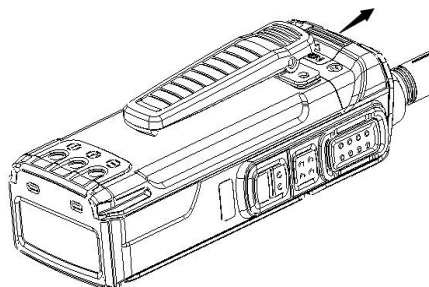
All battery will give risk to your body or damage by key, decoration, jewelry when they connect to the terminals of battery. Because the conductive metal may cause short circuit, which may produce great quantity of heat. Be careful when you handle any battery, particularly putting them into the clothes, bag, or metal container.

(DMR with screen)

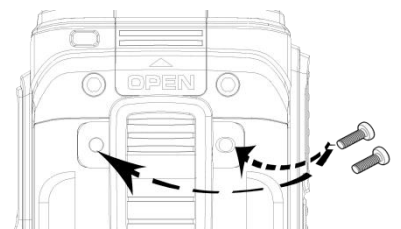
### Quick reference



Pic [1]



Pic [2]



Pic [3]

### Operating reference

- 1) Attach the antenna and put on the battery as Pic [1], A "da" sound indicates proper installation of battery. Take off the battery as PIC [2].  
Screw the clip on the battery as PIC [3].
- 2) Turn the power knob " 2 " clockwise, a short music rings and LED lights, then enter the Homepage.
- 3) Use ▲/▼ to select a channel, press PTT " 3 " button and hold to transmit with the same frequency in effective distance range, release the button to stop transmitting after finish.

## Menu

Press menu button  "6" to enter menu

### Contacts (only exit in digital mode)

Press  enter menu, use ▲/▼ to contacts, press  to enter.

Use ▲/▼ to

-1.Contact list


-2.New Contact


Press  to enter new contact

Enter(input) number, then press  enter next step "enter name"

Use keypad to enter name, and then press  ve. And the new contact will exist on the contact list.


-3.Manual Dial

Press  to enter to manual dial, enter number,


press  to enter sub-menu and follow "menu" to manual dial (call alert, radio check, remote monitor, radio enable, radio disable )

### Scan

When it is scanning, the radio can view if there is a voice activity in current channel through circulating pre-programmed scan list.

LED twinkle and the scan icon  appears on screen. Press any buttons to stop scanning.

Press  enter menu, use ▲/▼ to scan, press  to enter.

1.on , select this and confirm, there is an icon  shown on screen and radio begin to scan (the LED is twinkling)

press  or  stop scanning.

2.view list -programmed channel list.

3. Add Scan list, add the channels to display on view list & del scan list.

Press  to enter "add scan list",

(use ▲/▼ to select channel) press "enter" to add programmed channel.

4.Del Scan list,

Delete the programmed channels to display in "add scan list". (use ▲/▼ to select channel)

Press  to enter "del scan list"

(use ▲/▼ to select channel) press "enter" to delete programmed channel (use ▲/▼ to select channel)

### Zone

--to be programmed on computer. 64 zones for program. Totally 1024 channels.


### Message ( in digital mode)

Press  enter menu, use ▲/▼ to "message", confirm to enter.

1.Inbox

2.write


Use ▲/▼ to "write"

press  enter writing page and edit message,

select "enter" to "send or save" message, select "send" to choose contacts to send message or manual dial to edit contact to send message.

3 Quick Text, pre-programmed message on computer.

Use ▲/▼ to "quick test"

press  to enter, select pre-programmed test, please "enter" to select contact list and send.

4 Outbox, check the sent message here.



5. Draft, check the message draft here.

### Calllog (in digital mode)

The radio can record all recent dialed, received and not answered calls.

Use the calling record function view and manage the recent calls.

#### **Utilities --Radio Settings**

Press  enter menu, use  to "radio settings", confirm to enter.

##### **1.Talk around.**


Also called "Direct Mode" or "Off-Repeater Mode", refers to transmitting and receiving directly between radios without using a repeater.


Pre-programmed different receiving and transmitting frequency on computer, click "allow talk around" then click writing.

Then there will be "open/close" in menu item "talk around" for selection. User can select it as desired.


##### **2.Tones/Alerts**


use  to "Tones/Alerts", press  enter. use  to sub-contents.

1)All tones-if desired, user can enable or disable all radio tone and prompts. Use  to select "open/close",



press  to confirm and press back key to quit.


2) Talk permit- an audible or tactile prompt that indicates channel availability status upon PTT key activation.


-Use  to select "None, Digital, Analog, both"

press  to confirm and press back key to quit.

3) Keypad tones-If desired, user can turn on/off the keypad tone.

--Use  to Keypad tones, press  enter.


Press  to select items.

Press  to confirm selection and press back key to quit.


##### **3.Power**


Set each channel power level to high or low. High power radio implement communications with relatively far distance radios.


Low-power radio implement communications with relatively close distance radios.

Press  to power, press enter then select "high or low" for the current channel.

##### **4.Backlight-Turn on/off the screen backlight according to the need.**



Press  to "backlight", enter it.



Press  to select "turn off/keep on , 5s, 10s...60s."

press  to confirm selection and press back key to quit.

##### **5.Squelch (work in Analog mode)**



Adjust radio squelch level, thus filtering low signal intensity useless call or channel higher than normal value. Normal is the default, strict filtering(useless) call or background noise. However, a call from a remote location may also be filtered out.




Press  to "Squelch", press y to enter.

Use  to select squelch level and press  confirm press back key to quit.



##### **6. Intro Screen - enable or disable the intro screen display.**


##### **7. Keypad Lock**

Press  to "keypad lock", press  enter.

Press  to select "turn off, turn on, 5s, 10s...120s" and press  to rm and press back key to quit.


##### **8.Language.**

Press  to "Language", press  enter.

Use  to select "English or Chinese" and press confirm key.



##### **9. LED indicator - if desire, activate and deactivate the LED.**

Press  to "LED indicator", press  enter.

Use  to select "open/close" and press confirm key, then press back key to quit.

##### **10. VOX**


This function allows user to initiate voice-activated hands-free calls on pre-programmed channels. Take the radio from the lip 3-5cm and the microphone with VOX function detect voice, radio will automatically transmit signals.

Press  to "VOX", press  enter.

Use  to select "open or close" and press confirm key, then press back key to quit.

##### **11.Passwdlock-can set pass word for power-on.**

Press  to "Passwdlock", press  enter.


Use  to select "turn on, turn off, change Pwd". then press confirm key.

Default setting is turn off. If user select "turn on", user need to input the initial password "00000000" when turn on the radio again.Set new password.


Select "change Pwd"


press  key to enter.



Input new pass words (should be set to 8 digits.) and press confirm KEY and input the new password again and confirm.

Select "turn on" and confirm selection. Turn off the radio then turn on, input the new password then press  to enter homepage.


#### 12.Clock

Use ▲/▼ to "clock" press  to enter, select "time or date" to enter.


Press  to edit, press ▲/▼ to edit time, minute, seconds(year/months/days),

press  to save and press  to quit.

#### 13.Ch Mode,

Press ▲/▼ to "Ch mode", press  to enter,

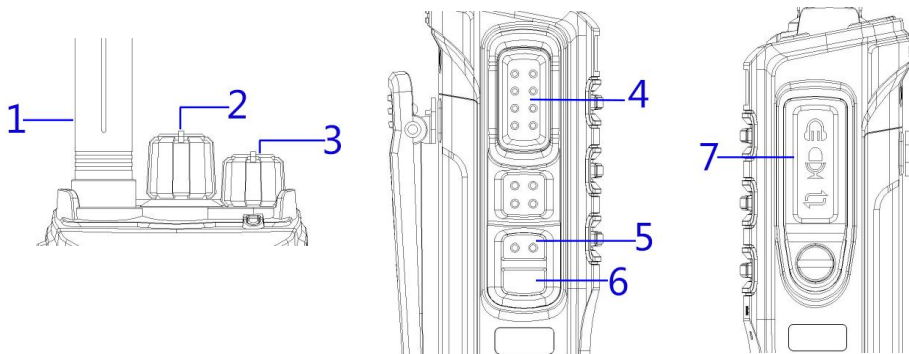
use ▲/▼ to select "Freq or channel name" to display on screen.

Press  to confirm selection and press back key to quit.

#### --Radio Info

1.My number 2.FMW Version 3.CPS Version 4.CMIIT\_ID 5.DSP Version

### (DMR without screen)



- 1-Attached antenna
- 2-Channel
- 3-Power/Volume
- 4-PTT
- 5 & 6-customized buttons by program
- 7- Universal connector of accessories

## Operating reference

1) Put on the battery as PIC [1] and antenna, A "da" sound indicates proper installation of battery.

Take off the battery like PIC [2].

Screw the clip on the battery as PIC [3].

2) Turn the power knob "3" clockwise, a short music rings and broadcasting the current channel.

3) Use knob "2" to select a channel, press PTT " 4 " button and hold to transmit with the same frequency in effective distance range, release the button to stop transmitting after finish.

## Accessories use

If a Speaker/Microphone is available, remove the plastic cap and its mounting screws from the right side of the transceiver, then insert the plug of the Speaker/Microphone into the MIC/SP jack; secure the plug using the screws supplied with the Speaker/Microphone. Hold the speaker grille up next to your ear while receiving. To transmit, press the PTT switch on the Speaker/ Microphone, just as you would on the main transceiver's body, and speak into the micro-phone on a normal voice level.

#### Note

1) Save the original plastic cap and its mounting screws. They should be reinstalled when not using the Speaker/Microphone.

2) When you press the PTT switch on the Speaker/Microphone, it disables the internal microphone, and vice versa.

## Simple trouble removed

Problem	Settle
no power	1. the battery may be power off, change a new one or charge it 2.the battery do not have a good assembling.
the battery cant work for long time after full charging	the life of battery is end, please change a new battery.
cant talk to the members in a team/group	1.please make sure you are in the same frequency & the setting of QT/DQT is the same with others 2.maybe you are too far away, please be in the limited distance.
hear other voice which do not belong to the team/group	please change the QT/DQT setting of all radios of team/group
the radio is beeping	the frequency is blank, please turn to the other channel or write a frequency