

NOTICE

"Radio Regulation of The People's Republic of China" rules that institutions and individuals who use and set any radio transmission equipments in The People's Republic of China can only operate when they bid to establish radio station and get station license at corresponding radio administrative institutions.

THANK YOU!

Thank you for using the company's handheld FM walkie-talkies. This transceiver design, technology, reasonable structure and stable performance, is easy to operate and to meet the users with a variety of sophisticated functional requirements and design. I believe its compact size and fully functional to meet your needs.

USER'S MANUAL

PLEASE READ USER'S MANUAL CAREFULLY BEFORE USING

Main Function

- VHF Frequency Range:136-174MHz
- UHF Frequency Range:400-470MHz
- Frequency/Channel Dual Display Dual Standby
- 128 Memory Channels
- Built-in CTCSS/DCS
- High/Low Power Shift
- Wide/Narrow Band Selectable
- VOX Function
- Alarming Function
- Auto Power Off
- PC Programmable
- Wired Copy Function
- FM Radio
- English/Chinese Voice Prompt
- Lamp Function

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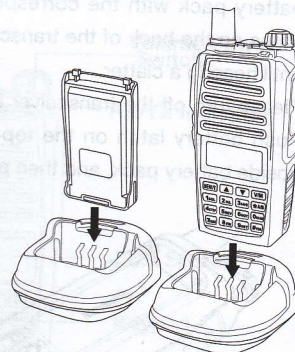
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(1) Preparation

■ Charge Battery Pack

The battery is not charged out of factory, and please charge it before using. The first charging can't reach full capability after buying or storing for a long time (more than two months). Please charge and discharge it two or three times to make it reach really full capability.

Plug the uncharged battery or transceiver with battery into charger, and make sure the battery contact charging terminal with voltage 220V. When the charging light turns red, charging has begun, and charging has finished while light turns green.



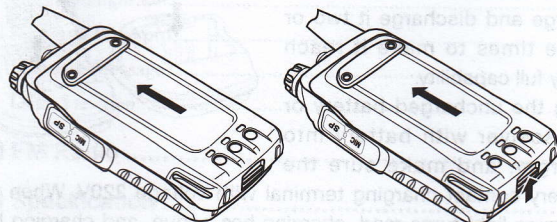
Notice:

- Please do not recharge the battery if it is fully charged. Otherwise, its life will be shortened, or it will be damaged.
- Please turn off the transceiver before charging. The charging will be interfered if you use the transceiver during charging.
- It comes to the limit of the battery life if the use time of transceiver shortens obviously even charging is correct. Please change a new battery pack.
- Please do not charge in high-temperature or damp environment; please remove adapter when charging is finished.

■ Install/Remove Battery Pack

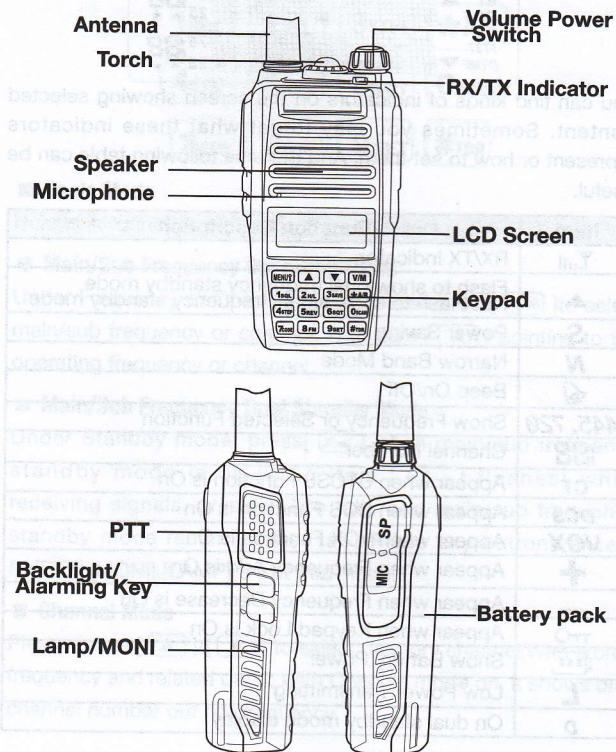
Match two juts on the top and two grooves at the bottom of the battery pack with the corresponding guides on the aluminous frame on the back of the transceiver. Slide the battery pack upon until hearing a clatter.

Please turn off the transceiver before removing the battery pack. Push battery latch on the top o the transceiver to release the upside battery pack, and then pull it away from the transceiver.

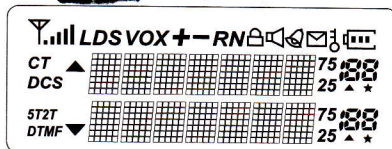


(2) To Know

■ Appearance Description



■ LCD Screen Display



You can find kinds of indicators on the screen showing selected content. Sometimes you may forget what these indicators represent or how to set them. And then the following table can be useful.

Item	Function Description
	RX/TX Indicator
	Flash to show dual frequency standby mode Not Flash to show signal frequency standby mode
S	Power Saving
N	Narrow Band Mode
	Beep On/Off
445.720	Show Frequency or Selected Function
88	Channel Number
CT	Appear when CTCSS Function is On
DCS	Appear when DCS Function is On
VOX	Appear when VOX Function is On
+	Appear when Frequency Add is On
-	Appear when Frequency Decrease is On
	Appear when Keypad Lock is On
	Show Battery Power
L	Low Power Transmitting
D	On dual standby mode display

■ Keypad



■ Basic Mode

Here is introduction of basic modes to select.

■ Main/Sub Frequency Operating Mode

Under Frequency or Channel mode, please press[]to select main/sub frequency or channel, with item [] pointing to the operating frequency or channel.

■ Main/Sub Frequency Dual Standby Mode

Under Standby mode, press[], then main/sub frequency standby mode is on when item [] flashes; when receiving signals, press[PTT]to talk, and main/sub frequency standby mode resumes after talk. Press any buttons except for[PTT],[MONI],[LAMP]to exit this mode.

■ Channel Mode

Please press []/[] to select memory channel(With stored frequency and related data); With Channel mode on, it shows only channel number but not frequency.

■ MR Mode

Under Channel mode, hold[**MENU**] and switch power on, then press [**▲**]/[**▼**] to select "M-ONLY", repress [**MENU**] to Channel mode. Under Channel mode, press [**▲**]/[**▼**] to select memory channel(With stored frequency and related data), then press [**V/M**] to Frequency mode. Under above two modes, input memory channel number(Three letters) to enter the channel.

■ Frequency Mode

Please press [**▲**]/[**▼**] to select frequency, or directly input frequency numbers within standard frequency range(245.000MHz-245.995 MHz). Under this mode, press [**V/M**] to MR mode. Channel mode resumes when re-switch power on.

■ Shortcut Keys Operation

Press [**MENU**] and [**0SCAN**] : Scanning On/Off

Press [**MENU**] and [**1SQL**] : Select VOX Levels 0-9

Press [**MENU**] and [**2HL**] : Select High/Low Power

Press [**MENU**] and [**3SAVE**] : Select Power Saving Function

Press [**MENU**] and [**4STEP**] : Set Frequency Offsets: 5K - 6.25K - 10K - 12.5K - 25K

Press [**MENU**] and [**5REV**] : Set Frequency Offset, Add/Dec/Off

Press [**MENU**] and [**6SQL**] : Set CTCSS/DCS

OFF:Transmit/Receive without CTCSS/DCS

TONE:Transmit with CTCSS

CTCSS:Transmit/Receive with CTCSS

D CODE:Transmit with DCS

DCS:Transmit/Receive with DCS

T DCS:Transmit with CTCSS/Receive with DCS

D TSQL:Transmit with DCS/Receive with CTCSS

Press [**MENU**] and [**7CODE**] : Select CTCSS/DCS data. 50 groups of CTCSS: 67.0 -254.1; 107 groups of DCS: D017N - D754N or D017I - D754I(Can set only when CTCSS/DCS is on)

Press[**MENU**] and [**8FM**] :Turn On/Off FM Radio

Press[**MENU**] and [**9SET**] :Set Menu Functions

(3) Basic Operation

■ Menu Function

Menu NO.	Display Icon	Options	Menu Description
1	APO	ON/ OFF	Auto Power Off
2	SCANADD	ON/ OFF	Add Channel Scanning
3	BATYARV	ON/ OFF	Power Saving
4	BCLO	ON/ OFF	Busy Channel Lockout
5	BEEP	ON/ OFF	Beep On/Off
6	FMAUTO	ON/ OFF	FM Radio Search Broadcast
7	DC VLT		Show Battery Power
8	DW	ON/ OFF	FM Radio MONI Mode
9	LAMP	PTT/MONI/LAMP	LED Backlight
10	LOCK	PTT/ K+S/ ALL/ KEY	Keypad Lockout
11	MSGSET	"0 - 9"/"A - Z"	Bootstrap Message
12	NAME	ALPHA /FREQ	Channel Name
13	NM SET	"0 - 9"/"A - Z"	Edit Channel Name
14	OFFSET	00.000MHZ - 99.995MHZ	Transmit/Receive Offset
15	OPNMSG	OFF / DC /MSG	Bootstrap Message
16	PSWD	ON/ OFF	Bootstrap Password On/ Off
17	PSWD W	ON/ OFF	Set Bootstrap Password
18	POGER	ON/ OFF	Talk-Over Voice Prompt
19	SCN MD	TO/CO	Scanning Mode

Menu NO.	Display Icon	Options	Menu Description
20	STE	ON/ OFF	End Sound Elimination
21	TOT	Off/1 Minute to 7 Minutes	Time Out Timer
22	TXSTOP	ON/ OFF	Transmit Limit
23	VOX	ON/ OFF	VOX On/Off
24	VOX D	1S to 4S	VOX Delay
25	VOX S	Levels 1 - 8,	VOX Sensitivity: Level 8 is lowest, Level 1 is highest
26	WIDNAR	NARROW	Narrow Band
27	VOICE	CHI/ENG//OFF	Select Language

■ Main Functions Set and Operation

Press [**MENU?**] and [**9SET**] then press [**▲**]/[**▼**] to select menu functions.

APO -01 Auto Power Off. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON: Turn on Auto Power Off

OFF: Turn on Auto Power Off

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

SCANADD -02 Channel Scanning. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON: Scanning Add On

OFF: Scanning Dec On

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

BATYARV -03 Power Saving. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON:Power Saving On

OFF:Power Saving Off

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

BCLO -04 Busy Channel Lockout. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON:Busy Channel Lockout On

OFF:Busy Channel Lockout Off

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

BEEP -05 Beep On/Off. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON: "Di" Voice Prompt

OFF:Beep Off

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

FMAUTO -06 Set FM Radio Search Broadcast. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON: Auto Searching

OFF:Manual Searching

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

DC VLT -07 Show Battery Voltage.

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

DW-08 Set FM Radio MONI Mode. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ON Allow to Receive Signals

OFF Not Allow to Receive Signals

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

LAMP -09 LED Backlight On/Off. Press [**MENU?**], then press [**▲**]/[**▼**] to turn on/off led backlight.

When any keys except for [**PTT**], [**MONI**], [**LAMP**] are zpressed, backlight will be on for 5 seconds, then auto off.

CONT: [**LAMP**] to Control Backlight

OFF: Auto Backlight is Off

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

LOCK -10 Keypad Lockout. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

PTT Lock [**PTT**]

K+S Lock Keypad and UP/DOWN

ALL Lock All Keys

KEY Lock Keypad

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

MSGSET -11 Set Bootstrap Message. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

"0 - 9"/"A - Z"

Press [**9set**] to edit next one, and press [**7000**] to delete.

Then press [**MENU?**] to resume, or press [**PTT**] to exit.


NAME -12 Channel Name. Press [**MENU?**], then press [**▲**]/[**▼**] to select:

ALPHA:Show Channel's Name

FREQ:Show Frequency or Channel

Then press [**MENU?**] to resume, or press [**PTT**] to exit.

NM SET -13 Edit Channel Name. Press [**MENU?**], then press [**▲**]



]/[] to select:

"0 - 9"/"A - Z"

Press [] to edit next one, and press [] to delete.

Then press [] to resume, or press [PTT] to exit.

OFFSET-14 Transmit/Receive Offset. Press [], then press [

] - [] to input offset:

00.000MHZ - 99.995MHZ

Then press [] to resume, or press [PTT] to exit.

OPNMSG -15 Bootstrap Message. Press [], then press [


]/[] to select:

OFF:Not Message

DC:Show Battery Voltage

MSG:Show Edited Message

Then press [] to resume, or press [PTT] to exit.


PSWD -16 Bootstrap Password On/Off. Press [], then

press []/[] to select:

OFF:Bootstrap Password Off

ON:Bootstrap Password On

Then press [] to resume, or press [PTT] to exit.

PSWD W -17 Set Bootstrap Password. Press [], then press [

] - [] to select:

Input 4 letters or numbers

Then press [] to resume, or press [PTT] to exit.

POGER -18 Talk-Over Voice Prompt. Press [] then press [

]/[] to select:

ON:Talk-Over Voice Prompt On

OFF:Talk-Over Voice Prompt Off

Then press [] to resume, or press [PTT] to exit.

SCN MD -19 Set Scanning Mode. Press [], then press [


]/[] to select:

TO:Time Scanning

CO:Wave Carrier Scanning


Then press [] to resume, or press [PTT] to exit.



STE -20 End Sound Elimination. Press [], then press []/[

] to select:

ON:End Sound Elimination On

OFF:End Sound Elimination Off


Press [] to resume, or press [PTT] to exit.

TOT -21 Time Out Timer. Press [], then press []/[]


to select:

OFF:Time Out Timer(TOT) Off

Set Time:1 to 7 Minutes

Then press [] to resume, or press [PTT] to exit.

TXSTOP -22 Transmit Limit. Press [], then press []/[

] to select:

ON Transmit Limit

OFF Transmit

Then press [] to resume, or press [PTT] to exit.

VOX -23 VOX Function. Press [], then press []/[]

to select:

ON Vox Function On

OFF Vox Function Off

Then press [**MENU**] to resume, or press [**PTT**] to exit.

VOX D -24 VOX Delay. Press [**MENU**], then press [**▲**]/[**▼**] to select:

1 - 4 Seconds

Then press [**MENU**] to resume, or press [**PTT**] to exit.

VOX S -25 VOX Sensitivity. Press [**MENU**], then press [**▲**]/[**▼**] to select:

Levels 1 - 8: Level 8 is lowest, level 1 is highest

Then press [**MENU**] to resume, or press [**PTT**] to exit.

WIDNAR -26 Narrow Band. Press [**MENU**], then select:
NARROW Narrow Band

Then press [**MENU**] to resume, or press [**PTT**] to exit.

This model is limited to use with Narrow Band.

VOICE -27 Select Language. Press [**MENU**], then press [**▲**]/[**▼**] to select:

CHI:Chinese

ENG:English

OFF:Language Off

Then press [**MENU**] to resume, or press [**PTT**] to exit.

■ Store Channel

Under Frequency mode, please input frequency and select related data(such as CTCSS, DCS, Offset, Offset +/- etc.); press [**MENU**], and it shows channel number on right side, then press [**▲**]/[**▼**] to set channel number(E200 can only edit channels between No.81-128). Then, press [**V/M**] to confirm and store.

■ Delete Stored Channel

Please select the channel you like to delete between No.81-128, and switch power off. Then, hold [**MENU**] and re-switch power on, press [**▲**]/[**▼**] to select "MEMCLR", and press [**MENU**] to delete the stored channel.

■ Delete Channels Data

When power is off, hold [**MENU**] and switch power on, then press [**▲**]/[**▼**] to select "ALLRST", then press [**MENU**] to reset all data. Repress [**▲**]/[**▼**] to select "SETRST", then press [**MENU**] to delete preset menu function and parameters, then stored channel data will be saved.

■ PC Programming/Wired Copy Function

• PC Programming

1. Well connect computer COM and UV8's SP/MIC jack by program cable, and turn on radio.
2. Start computer and have radio programming software function. Then set your expected frequencies and parameters. There are 128 channels to edit in "Channel Data" from editing menu, and then select "unit data" to select and set functions. Afterwards, click "Write to Radio" or relative button on toolbar to start writing. When it finishes, LED screen displays "Succeed". Until now, all parameters shown are stored in the radio.

• Wired Copy Function

Use special data copy cable to clone data from programmed


radio to target radio. Switch target radio on first after well connect two radios' SP/MIC with copy cable. Then hold programmed radio's **[PTT]** and **[MONI]** for 3 seconds and switch power on until LCD shows "OPT", then release; then, input "988", and press **[PTT]** to start copying with red light flashing. When it successes, red light disappears and returns to standby mode.

Repeat the above steps to clone more radios. If cloning fails, red light lasts, and you're advised to check the connect.

(4) Auxiliary Features

■ Keypad Lockout

This function is to avoid unit's setting in case of unexpected pressing keypad, this model has four modes to select: (1. "PTT" to lock **[PTT]** / 2. "K+S" to lock number keys and UP/DOWN keys/ 3. "ALL" to lock all keys/ 4. "KEY" to lock keypad)

Press [**MENU?**] for 2 seconds to turn on/off this function, and  appears when lockout is on.

■ Auto Power Off

The unit allows 1-15 hours to auto power off, and the unit will auto power off when it has no any operation or not receive signals within preset time.

■ Alarming Function

Hold **[LAMP]** for 3 seconds, other unit with same frequency will respond and alarm with the unit. Press **[PTT]** to exit.

■ Power Saving Function

Battery saving allows receiving circuit to cut down power consumption when there is no signal, finally expand longer battery life. This function is auto off when MONI function is on or any keys are pressed. Press [**MENU?**] and [**3SAVE**] to turn on/off this function, and it shows "S" when this function is on.

■ VOX Function

1. VOX function is useful in certain situation. Press [**MENU?**] and [

[**9SET**] , then press [**▲**] / [**▼**] to select option No. 23 to turn on/off VOX function.

2. Set Vox Sensitivity. Press [**MENU?**] and [**9SET**] , then press [**▲**] / [**▼**] to select vox sensitivity levels.

Note: When you wear matched Mic/Earphone and VOX function is on, you need to adjust VOX gain so that the unit could recognize voice well. If Mic/Earphone is too sensitive, any noise will be recognized and the unit will transmit, and if Mic/Earphone is not sensitive enough, the unit can't recognize your voice. Therefore, please be sure that VOX gain is well adjusted to make communication easy.

■ Beep On/Off

With Beep on, any press into keypad will cause sound "Bi", and you can turn on/off this function through menu function.

Press [**MENU?**] and [**9SET**] , then press [**▲**] / [**▼**] to select option No.5 to turn on/off Beep function.

■ Voice Prompt

With Voice Prompt on, any press into keypad will cause voice prompt, and you can turn on/off it through menu function.

Press [**MENU?**] and [**9SET**] , then press [**▲**] / [**▼**] to select option No.27, and select Chinese/English/Off.

■ LED Backlight

Press [**MENU?**] and [**9SET**] , then press [**▲**] / [**▼**] to select option No.9, and select between [**CONT**] / [**KEY**] / [**OFF**] . You

can also press [**LAMP**] to turn on/off LED Backlight.

■ Bootstrap Password

Press [**MENU?**] and [**9SET**] , then press [**▲**] / [**▼**] to select option No.16 to set password, then press option No.17 to select four numbers(0-9).

■ Bootstrap Message

Press [**MENU?**] and [**9SET**] , then press [**▲**] / [**▼**] to select option No.15 to set bootstrap message:

"DC": Show battery voltage/OFF:Off /"MSG": Show welcome message. Then select option No.11 to edit bootstrap message.

■ Lamp Function

This model has Lamp function for you honor customers to use at night.

Press [**MONI**] , lamp is on;repress [**MONI**] , lamp is off.

(5) FM Radio

1. Turn On/Off FM Radio; FM Radio Search Broadcast

Under standby mode, press [**MENU?**] and [**8 fm**] to turn on/off FM radio. When FM radio is on and under frequency mode, you can directly input receive frequency(3 or 4 numbers). When broadcast search is off, please press [**▲**]/[**▼**] to adjust radio's frequency, with step 50KHz. When broadcast search is on, please press [**▲**]/[**▼**] search broadcast, and it will auto stop and stay when broadcast is searched. Under radio's Channel mode, please press [**▲**]/[**▼**] or input 2 numbers(01-25) to adjust radio's channel.

2. FM Radio FR/CH Mode

When FM radio is on, press [**V/M**] to shift between FM radio Frequency or Channel Mode(Can't shift when no channels are stored in FM radio).

3. Set FM Radio MONI Mode

Press [**MENU?**] and [**9 set**], then press [**▲**]/[**▼**] to select option No.8. When it's "ON", the unit can exit from FM radio and receive signals, and it resumes to FM radio when signals disappear. When it's "OFF", it can't exit from FM radio and MONI signals.

4. Store FM Radio Channel Data

Under Frequency mode, press [**MENU?**] to select frequency; It shows channel number on right side, then press [**▲**]/[**▼**] to select channel number(Channel number 1-25), then press [**V/M**] to confirm and store.

(6) Specification

General Part	
Frequency Range	VHF:136-174MHz; UHF:400-470MHz
Operating Temperature	-10°C to +60°C
Frequency Combination	Phase Lock Frequency Synthesize
Frequency Stability	±2.5ppm
Memory Channels	128
Rated Voltage	DC7.4V(Li-ion Battery)
Antenna Disposition	Rubber Antenna
Antenna Impedance	50Ω
Operating Mode	Simplex of co-frequency or alien frequency
Dimension	110mm*60mm*36mm
Weight	About 350g
Transmitter	
Output Power	HI: ≥5W LO:1W
Modulate Mode	Frequency Modulate
Maximum Frequency Deviation	≤2.5KHz
Spurious Radiation	<60dB
Transmit Current	≤HI:1500mA LO:600mA

Receiver	
Sensitivity	<0.20uV(12dB SINAD)
VOX Sensitivity	0.18uV
Intermodulation Antijamming	50dB
Audio Power	≥400mW
Receive Current	≤250mA
Squelch Standby Current	20mA
FM Radio	
Frequency Range	FM: 87.0~107.9MHz
Memory Channels	25

Note: Specifications are subject to change without notice.

(7) Common Error and Solution

Common Error	Solution
No reaction when turn on the radio	<ul style="list-style-type: none">• Battery power exhausted, please change the battery or recharge.• Wrong battery connect, please remove and reinstall it.
Battery power easily get lost	<ul style="list-style-type: none">• The battery life is ended, please use new battery.
Could not talk with other members in the same team	<ul style="list-style-type: none">• Beyond the communication range.• Different frequencies or DCS/CTCSS, please reset.
Voices from non members	<ul style="list-style-type: none">• Please reset DCS/CTCSS. Please change all radios DCS/CTCSS.
No fm radio function	<ul style="list-style-type: none">• Please check if fm radio function is on.• Please check if there's locate broadcast, or signal is weak.

Note: This manual has been made to seek the content is accurate and complete, for possible omissions and errors in the text to the actual function of the product shall prevail.