


Thanks for buying the  Wouxun KG-669E series transceiver. This transceiver offers latest in design, multi-functionality, stable behaviour and easy operation. We believe you will be pleased with the high quality and dependable features for all your communication needs.

User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR **Wouxun** PORTABLE TWO-WAY RADIO.

Compliance with RF Energy Exposure Standards

Your **Wouxun** two-way 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 (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

NOTE

» The approved batteries supplied with this radio are rated for a 5-5-90 duty cycle (5% talk-5% listen-90% standby), even though this radio complies with the FCC occupational RF exposure limits at duty cycles of up to 50% talk.

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Your **Wouxun** two-way radio Complies with the following of RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/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

Operational Instructions and Training Guidelines

To ensure optimal performance and compliance with the occupational/controlled environment RF energy exposure limits in the above standards and guidelines, users should transmit no more than 50% of the time and always adhere to the following procedures:

Transmit and Receive

To transmit (talk), push the Push-To-Talk (PTT) button; to receive, release the PTT button.

Hand-held radio operation

Hold the radio in a vertical position with the microphone 5 cm away from the lips and let the antenna

farther away from your head.

Body-worn operation

Always place the radio in an **Wouxun** approved clip, holder, holster, case, or body harness for this product. Use of non-**Wouxun** -approved accessories may exceed FCC RF exposure guidelines.

Antennas & Batteries

- Use only **Wouxun** approved, supplied antenna or **Wouxun** approved replacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Use only **Wouxun** approved, supplied batteries or **Wouxun** approved replacement batteries.
- Use of non-**Wouxun** -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of **Wouxun** approved accessories, see the accessories page of this user manual or visit the following website which lists approved accessories: <http://www.wouxun.com>

Notices to the User

- Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- Illegal operation is punishable by fine or imprisonment or both.
- Refer service to qualified technicians only.

WARNING: It is important that the operator is aware of and understand hazards common to the operation of any transceiver. Explosive environment (such as gases, dust, fumes, etc). Turn off your transceiver while talking on fuel, or while parked in gasoline service stations.

If you require this machine to be developed or some changed, please connect with **Wouxun** or your **Wouxun** dealer.

FCC Caution:

This equipment has been tested and found to comply with the part 90 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does


cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

Measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Licensing Requirements

Your radio must be properly licensed Federal Communications Commission prior to use. Your

 Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.

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Precautions

Only qualified technicians are allowed to maintain this product.

Do not use the radio or charge a battery in explosive areas such as coal gas, dust, steam, etc.

Switch OFF the radio while refueling or parking at gas station.


Do not modify or adjust this radio without permission.

Do not expose the radio to direct sunlight over a long time, nor place it close to heating source.

Do not place the radio in excessively dusty, humid areas, nor on unstable surfaces.

Safety: It is important that the operator is aware of and understands hazards common to the operation of any radio.

CE Caution:

Hereby,  declares that this Two-way radio is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the DOC may be obtained through the following address.

Address: No.928 Nanhuan Road, Jiangnan High Technology Industrial Park, Quanzhou, Fujian 362000, China

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Unpacking and checking of your equipment

Carefully unpack the transceiver. We recommend that you identify the items in the following table before discarding the packing material. If any items are missing or have been damaged during shipment, please notify your **Wouxun** dealer.

Supplied accessories



Transceiver



High gain antenna



Li-ion battery pack



Intelligent charger



Adapter



Beltclip



Handstrap



User's manual



Service card

01

Description of functions

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1. VHF: 66-88MHz VHF: 136-174MHz VHF: 245-246MHz
UHF: 300-350MHz UHF: 350-390MHz UHF: 400-470.9875MHz UHF: 450-520MHz
2. Output power: VHF: 5W/1W UHF: 4W/1W
3. 128 memory channels + 1 emergency alarm channel
4. DTMF encoding and decoding
5. FM radio function
6. ANI (caller ID)
7. VOX
8. All calls, group calls and selective calls function
9. Calling ring function
10. 4 groups scrambler (option accessory)
11. 105 groups DCS and 50 groups CTCSS
12. Voiceguide (English/Chinese)
13. Wide/Narrow bandwidth selection (25KHz/12.5KHz)
14. Three color backlight displays
15. Channel order, channel frequency, channel name multi-display method
16. Reverse frequency function
17. Distant urgency alarm function

02

Description of functions

18. Emergency calling function
19. Multi scan function
20. Channel steps (5/6.25/10/12.5/25KHz)
21. High/Low power changeable when on transmitting.
22. Intelligent charger (Warning sound and dualcolor light)
23. TX/RX splitselection (0-69.950MHz)
24. setting frequency shift direction
25. Stopwatch timer function
26. Busy channel lockout
27. Multi display modes when power on (full screen/Batt-V/others)
28. Low voltage battery pack voice prompt
29. Transmit overtime prompt
30. Keyboard lock (auto/manual)
31. Adding channelscan function
32. Programmable by computer
33. Menu/Channel reset
34. Wireclone function
35. Powersaving function

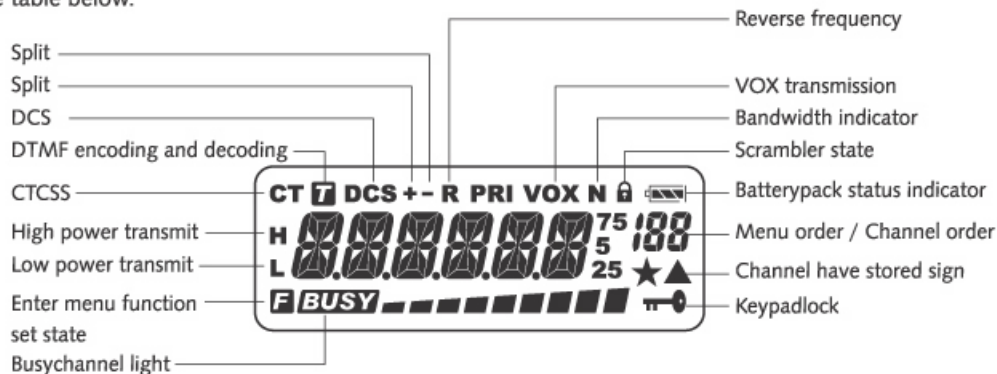
Getting started



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LCD display

On the display you will see various indicators that show what function you have selected. Sometimes you may not recall what those indicators mean, or how to select them, in such a case, you can refer to the table below.



Note:

-  Batterypack capacity indicator (full)
   Batterypack capacity spare indicator
  Batterypack capacity is exhausted
  Receive signal meter

Getting started

Description of transceiver

Topkey: Distant urgency alarm / emergency calling

Antenna

Powerswitch / Volumecontrol

Receive light

Transmit light

Screen / LCD display

Functionkey

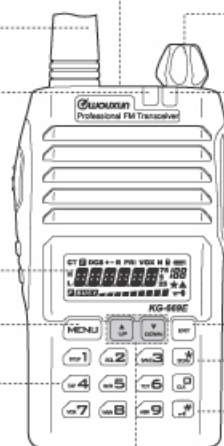
Exitkey

Numberkey

Reverse frequency / Scankey

Up / Downkey

Lockkey / Stopwatchtimer key



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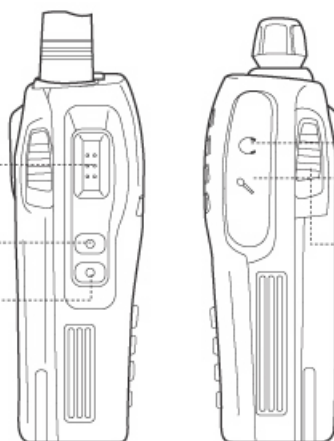
PTT (Push-To-Talk) key

Sidekey 1: radio/scan/lamp

Sidekey 2: monitor

Speaker / Microphonejacks


Battery latches



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Getting started

Speed search

When setting each function or parameter, press the  or  key one time can speed search the function or parameter.

DTMF encoding

This transceiver has DTMF encoding function. By pressing the right number key on transmit you can choose the right DTMF tone which you want to TX.



Switch working mode



























































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Shortcut operation sheet

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Function order	Function name	Enter function set	Screen display	Select parameter	Confirm Back	Selectable parameter explanation	See page
0	No definition						
1	Setting channel step	 → 	"STEP" 1	 → Press  or  key Select parameter	5 kinds of channel steps 5K/6.25K/10K/12.5K/25K	 → 	P13
2	Setting squelch level	 → 	"SQL-LE" 2	 → Press  or  key Select parameter	Squelch level from 0 to 9	 → 	P14
3	Setting battery pack savemode	 → 	"SAVE" 3	 → Press  or  key Select parameter	ON: Turn on save function OFF: Turn off save function	 → 	P14
4	Selecting transmit power	 → 	"TXP" 4	 → Press  or  key Select parameter	H: High power (VHF 5W/UHF 4W) L: Low power (1W)	 → 	P15
5	Setting scrambler	 → 	"SCR" 5	 → Press  or  key Select parameter	1 to 4: 4 kinds of scrambler mode OFF: Turn off scrambler set	 → 	P15
6	Transmit overtimer	 → 	"TOT" 6	 → Press  or  key Select parameter	TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT	 → 	P16
7	Setting VOX	 → 	"VOX" 7	 → Press  or  key Select parameter	VOX has levels from 1 to 10 OFF: Turn off VOX transmission	 → 	P16
8	Setting bandwidth	 → 	"BW" 8	 → Press  or  key Select parameter	WIDE: 25KHz NARR: 12.5KHz	 → 	P17

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Shortcut operation sheet

9 Setting auto backlight	MENU → 9 → ABR → MENU → Press 1 or 2 key	Select parameter	Select from 1-5 kinds of backlights OFF: Turn off auto backlight	MENU → EXIT	P17
10 Setting CTCSS	MENU → 1 → P → CTCSS → MENU → Press 1 or 2 key	Select parameter	50 groups CTCSS (67 to 254.1MHz) OFF: Turn off CTCSS	MENU → EXIT	P17
11 Setting DCS	MENU → 1 → 1 → DCS → MENU → Press 1 or 2 key	Select parameter	105 groups DCS (D023N-D754N) OFF: Turn off DCS	MENU → EXIT	P18
12 Setting voiceguide	MENU → 1 → 2 → VOICE → MENU → Press 1 or 2 key	Select parameter	CHINESE: Chinese guide ENGLISH: English guide OFF: Turn off voiceguide	MENU → EXIT	P18
13 Setting beeprompt	MENU → 1 → 3 → BEEP → MENU → Press 1 or 2 key	Select parameter	ON: Turn on beeprompt OFF: Turn off beeprompt	MENU → EXIT	P19
14 ANI ID CODE	MENU → 1 → 4 → ANI → MENU → Press 1 or 2 key	Select parameter	ON: Turn on ANI ID CODE OFF: Turn off ANI ID CODE	MENU → EXIT	P19
15 Setting callingring	MENU → 1 → 5 → RING → MENU → Press 1 or 2 key	Select parameter	ON: Turn on callingring OFF: Turn off callingring	MENU → EXIT	P20
16 Setting ringtime	MENU → 1 → 6 → RPT → MENU → Press 1 or 2 key	Select parameter	10 levels of 1 second different, 0 means turn off ring time prompt.	MENU → EXIT	P20
17 ANI ID CODE edit	MENU → 1 → 7 → I DE ID → MENU → Press 1 or 2 key	Select parameter	Personal ANI ID CODE can be selectable from 100 to 999	MENU → EXIT	P21
18 Setting DTMFsignal	MENU → 1 → 8 → DPT SIG → MENU → Press 1 or 2 key	Select parameter	ON: Turn on DTMFsignal OFF: Turn off DTMFsignal	MENU → EXIT	P21-22

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19 Setting ANI ID CODE transmit	MENU → 1 → 9 → PTT-IT → MENU → Press 1 or 2 key	Select parameter	ON: Permit transmit ANI delay time from 1 to 30 Unit:100ms OFF: Manual transmit	MENU → EXIT	P23
20 Setting mutemode	MENU → 2 → P → SPMUTE → MENU → Press 1 or 2 key	Select parameter	3 kinds of mutemode QT/QT+DT/QT&DT	MENU → EXIT	P24
21 Setting DTMF sidetone	MENU → 2 → 1 → DTMF ST → MENU → Press 1 or 2 key	Select parameter	DT-ST Turn on the sidetone ANI-ST Turn on the ANI sidetone DT+ANI Turn on sidetone and ANI tone OFF: Turn off all	MENU → EXIT	P26-27
22 Transmit overtime alarm	MENU → 2 → 2 → TOL → MENU → Press 1 or 2 key	Select parameter	Transmit overtime alarm has levels from 1 to 10 and 1 second each level. OFF: Turn off transmit overtime alarm	MENU → EXIT	P27
23 Setting workingmode	MENU → 2 → 3 → CH-MDF → MENU → Press 1 or 2 key	Select parameter	3 kinds of workingmode CH: channelmode/FREQ: frequencymode/NAME: channelname mode	MENU → EXIT	P27-28
24 Setting scanmode	MENU → 2 → 4 → SC-REV → MENU → Press 1 or 2 key	Select parameter	3 kinds of scan modes TO: Time mode scan CO: Carrier mode 1 scan SE: Carrier mode 2 scan	MENU → EXIT	P29
25 No definition					
26 Setting power on message	MENU → 2 → 6 → POWMSG → MENU → Press 1 or 2 key	Select parameter	OFF: Full screen display BATT: Battery voltage display MSG: WELCOME	MENU → EXIT	P29
27 RADIO/SCAN/LAMP (SIDE KEY 1)	MENU → 2 → 7 → PF 1 → MENU → Press 1 or 2 key	Select parameter	RADIO: FMradio turn on key SCAN: Scan function key LAMP: lamp key OFF: Turn off the function	MENU → EXIT	P30-31

Shortcut operation sheet

28 Distant urgency alarm Emergency calling (Top key)	MENU → [2] → [8] → PF2	Press [2] or [key] Select parameter	ALARM: Distant urgency alarm EMCALL: Emergency calling OFF: Turn off the function	MENU → EXIT	P31-32
29 Selecting standby display-color	MENU → [2] → [9] → WTM-LED	Press [2] or [key] Select parameter	BLUE: Blue backlight ORANGE: Orange backlight PURPLE: Purple backlight OFF: Turn off back light	MENU → EXIT	P33
30 Selecting receive display-color	MENU → [3] → [P] → RX-LED	Press [2] or [key] Select parameter	BLUE: Blue backlight ORANGE: Orange backlight PURPLE: Purple backlight OFF: Turn off back light	MENU → EXIT	P33
31 Selecting transmit display-color	MENU → [3] → [1] → TX-LED	Press [2] or [key] Select parameter	BLUE: Blue backlight ORANGE: Orange backlight PURPLE: Purple backlight OFF: Turn off back light	MENU → EXIT	P34
32 Busy channel lockout	MENU → [3] → [2] → BCL	Press [2] or [key] Select parameter	ON: Turn on busy channel lockout OFF: Turn off busy channel lockout	MENU → EXIT	P34
33 Setting keyboard lock	MENU → [3] → [3] → AUTOLK	Press [2] or [key] Select parameter	ON: Turn on autolock OFF: Turn off autolock	MENU → EXIT	P35
34 Edit channelname	MENU → [3] → [4] → CHNAME	Press [2] or [key] Select parameter	The channelname makes up of (A to Z)26 letters, (0-9)10 numbers, "?" or "+" or ".". The length 6 bits maximum.	MENU → EXIT	P36-37
35 Setting beat frequency shift	MENU → [3] → [5] → BS	Press [2] or [key] Select parameter	ON: Turn on beat frequency shift OFF: Turn off beat frequency shift	MENU → EXIT	P37
36 Setting stopwatch timer	MENU → [3] → [6] → SECOND	Press [2] or [key] Select parameter	ON: Turn on stopwatch function OFF: Turn off stopwatch function	MENU → EXIT	P38

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37 Memory channel	MENU → [3] → [7] → MEM-CH	Press [2] or [key] Select parameter	128 groups channel +1 group emergency channel	MENU → EXIT	P38-39
38 Delete channel	MENU → [3] → [8] → DEL-CH	Press [2] or [key] Select parameter	128 groups channel +1 group emergency channel	MENU → EXIT	P40
39 Frequency shift direction	MENU → [3] → [9] → SFT-1	Press [2] or [key] Select parameter	+: Positive direction -: Negative direction OFF: Turn off frequency shift direction	MENU → EXIT	P40
40 Offset frequency	MENU → [4] → [0] → OFFSET	Press [2] or [key] Select parameter	From 0 to 69.950MHz can be selectable	MENU → EXIT	P41-42
41 Setting reset	MENU → [4] → [1] → RESET	Press [2] or [key] Select parameter	VFO: Menu reset ALL: All message reset	MENU → EXIT	P43

- Speed search (See page 7)
- High/Low power changeable when on transmitting (See page 15)
- All calls, group calls and selective calls (See page 24-26)
- Setting reverse frequency function (See page 44)
- Lowvoltage batterypack voiceprompt (See page 44)
- Adding channel scan function (See page 44)
- Wireclone function (See page 45)
- Setting transmit overtime prompt (See page 45)
- Programming repeater function (See page 45-46)

How to operate

Lock menu function

If you don't need operate menu functions frequently, you can turn off by KG-669E programming software.

The steps as following:

1. Set password of switching between channelmode and frequency mode.
2. Set workmode as channelmode.
3. Turn off operating menu function in channelmode.

When you want to use menu functions, input password which you have set, and switch to frequency mode, then you can operate it.

No definition (UNDEF) ---- MENU 0

Setting channel step (STEP) ---- MENU 1

In standby, press + number and the screen will display "STEP 1"

Press enter, press or and select the step frequency of you need, then press to confirm, press return to standby.

This transceiver has the option of 5KHz, 6.25KHz, 10KHz, 12.5KHz, 25KHz steps.

Setting squelch level (SQL-LE) --- MENU 2

Select the level of squelch so that you will have no difficulty receiving the desired signal. When you set the level too high you will lose communication in a fringe area.

NOTE

» This transceiver has steps from 0-9, which step 0 is always open squelch. From 1 to 9 gives different levels of noise reduction.

In standby, press + number and the screen will display "SQL-LE 2"

Press enter, select the squelch of level you need, then press to confirm, press return to standby.

Setting battery pack savemode (SAVE) --- MENU 3

In standby, press + number and the screen will display "SAVE 3"

Press enter, press or and select ON or OFF.

Press to confirm, press return to standby.

How to operate

Selecting transmit power (TXP) ---- MENU 4

In frequency mode, press **[MENU]** + number **[4]** and the screen will display "TXP 4"

Press **[MENU]** enter, press **[↑]** or **[↓]** and select HIGH or LOW power, then press **[MENU]** to confirm, press **[EXIT]** return to standby.

NOTE

- » This transceiver has 5W and 1W power can be selectable.
- » High/Low power can be changed during transmit. Press PTT key and top key at the same time, this changes High/Low power.

4 groups scrambler (option accessory) ---- MENU 5

In standby, press **[MENU]** + number **[5]** and the screen will display "SCR 5"

Press **[MENU]** enter, press **[↑]** or **[↓]** and select OFF turn off scrambler or one of the 4 different scrambler sets, press **[MENU]** to confirm, press **[EXIT]** return to standby.

NOTE

- » 4 different groups of scrambling can be chosen in the menu.
- » To ensure effective communications the radio must be set to the same scrambling "mode".

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Transmit over timer (TOT) ---- MENU 6

The TOT is designed to prevent your radio to transmit too long. When the transceiver is exceeding the preset time limit, it will stop transmitting and give you a warning signal.

This transceiver can be set in 40 steps of 15 seconds different, between 15 and 600 seconds.

In standby, press **[MENU]** + number **[6]** and the screen will display "TOT 6"

Press **[MENU]** enter, press **[↑]** or **[↓]** and select the level you need when transmitting, press **[MENU]** to confirm, press **[EXIT]** return to standby.

Setting VOX (VOX) ---- MENU 7

In standby, press **[MENU]** + number **[7]** and the screen will display "VOX 7"

Press **[MENU]** enter, press **[↑]** or **[↓]** and select OFF or turn on the 1 to 10 different sensitivity levels, press **[MENU]** to confirm, press **[EXIT]** return to standby.

NOTE

- » When the level is set too high, the VOX needs more volume to get activated.
- » When scan or radio is in using, you can't use VOX.

How to operate

Setting wide or narrow bandwidth (WN) ---- MENU 8

In standby, press **[MENU]** + number **[8]** and the screen will display " WN 8 "

Press **[MENU]** enter, press **[↑]** or **[↓]** and select WIDE or NARR bandwidth, then press **[MENU]** to confirm, press **[EXIT]** return to standby.

Setting auto backlight (ABR) ---- MENU 9

In standby, press **[MENU]** + number **[9]** and the screen display " ABR 9 "

Press **[MENU]** enter, press **[↑]** or **[↓]** and select ON to turn on auto backlight or you want to switch off backlight, then press **[MENU]** to confirm, press **[EXIT]** return to standby.

Setting CTCSS (CTCSS) ---- MENU 10

In frequency mode, press **[MENU]** + number **[1]** **[0]** and the screen will display " CTCSS 10 "

Press **[MENU]** enter, press **[↑]** or **[↓]** and select OFF turn off CTCSS or one of the CTCSS value from 67HZ to 254.1HZ, press **[MENU]** to confirm, press **[EXIT]** return to standby.

NOTE

» This transceiver has 50 groups CTCSS, see appendix (1) CTCSS frequency sheet.

Setting DCS (DCS) ---- MENU 11

In frequency mode, press **[MENU]** + number **[1]** **[1]** and the screen will display " DCS 11 "

Press **[MENU]** enter, press **[↑]** or **[↓]** and select OFF turn off setting DCS or one of the DCS value between D023N and D754N, press **[MENU]** to confirm, press **[EXIT]** return to standby.

NOTE

» This transceiver has 105 groups DCS, see appendix (2) DCS frequency sheet.

Setting voiceguide (VOICE) ---- MENU 12

This transceiver has a selectable voiceguide in Chinese and English. It will display CHINESE when it is Chinese and ENGLISH when it is English.

In standby, press **[MENU]** + number **[1]** **[2]** and the screen will display " VOICE 12 "

Press **[MENU]** enter, press **[↑]** or **[↓]** and select English or Chinese or OFF to switch off the voiceguide, then press **[MENU]** to confirm, press **[EXIT]** return to standby.

When select turn off MENU (13) bepprompt will auto startup, if you want to turn off all keyboard prompt must turn off MENU (13) bepprompt function and MENU (12) setting voiceguide function at the same time.

How to operate

Setting beeprompt function (BEEP) ---- MENU 13

Beeprompt function is to tell you if the transceiver is operating well or has a malfunction.

We kindly advice you to switch on this function, this function will inform you for any possible malfunction.

In standby, press **MENU** + number **1** **3** and the screen will display " BEEP 13 "

Press **MENU** enter, press **↓** or **↑** and select ON turn on beeprompt or OFF, then press **MENU** to confirm, press **EXIT** return to standby.

NOTE

» If MENU (13) turn on voice guide function, the voiceguide gets priority.

Setting ANI ID CODE (ANI) ---- MENU 14

In standby, press **MENU** + number **1** **4** and the screen will display " ANI 14 "

Press **MENU** enter, press **↓** or **↑** and select ON turn on ANI ID CODE or OFF turn off ANI ID CODE, press **MENU** to confirm, press **EXIT** return to standby.

Setting callingring (RING) ---- MENU 15

Callingring switch be used when the transceiver received a matching DTMF signal then a tone will be heard. The ring promptime is set via MENU(16), when the setting is over preset, the speaker will be switch on.

In standby, press **MENU** + number **1** **5** and the screen will display " RING 15 "

Press **MENU** enter, press **↓** or **↑** and select ON turn on or OFF turn off, then press **MENU** to confirm, press **EXIT** return to standby.

Setting ringtime (ART) ---- MENU 16

When the right DTMF signal is received from the speaker, it will sound a clear ring.

In standby, press **MENU** + number **1** **6** and the screen will display " ART 16 "

Press **MENU** enter, press **↓** or **↑** and select one of the ring time from 0 to 10, press **MENU** to confirm, press **EXIT** return to standby.

NOTE

» This transceiver has 10 different steps of ringtime of which every step is 1 second difference, this means 0 it will switch off the ring .

How to operate

ANI ID CODE edit (IDEDIT) ---- MENU 17

In frequency mode, press **MENU** + number **1** **7** and the screen will display ***IDEDIT 17**.
Press **MENU** enter, input the ID CODE directly in which you need, then press **MENU** to confirm, press **EXIT** return to standby.

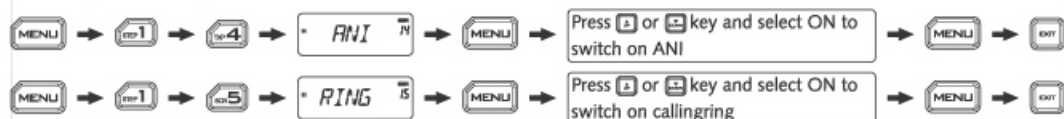
NOTE

» ID CODE selectable range from 100 to 999 .

Setting DTMF signal (OPTSIG) ---- MENU 18

In frequency mode, press **MENU** + number **1** **8** and the screen will display ***OPTSIG 18**.
Press **MENU** enter, press **3** or **2** and select ON turn on DTMF or OFF turn off DTMF signal, then press **MENU** to confirm, press **EXIT** return to standby.

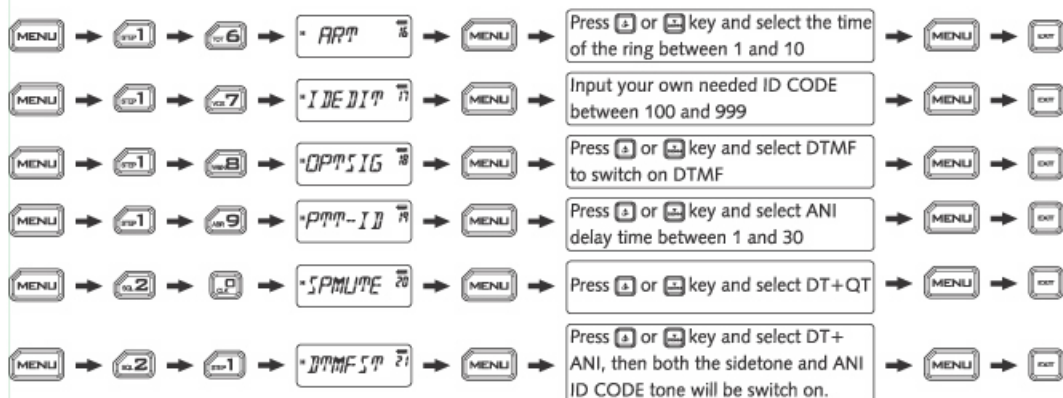
The steps of setting ANI ID CODE:



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How to operate

Setting ANI ID CODE transmit (PTT-ID) ---- MENU 19

Setting ANI ID CODE transmit means that when you are communicating, every time press the PTT key, the ANI ID CODE will be auto or manual transmitted.

① 1-30: Permit transmit ANI delay time from 1 to 30. Unit: 100ms

② OFF: Manual transmit

In standby, press + number and the screen will display

Press enter, press or and select from 1 to 30 for delay transmit ANI or OFF to switch off ANI transmit, then press to confirm, press return to standby.

NOTE

» When selecting manual transmit ANI ID CODE, press PTT and input the proper ANI ID CODE on the keyboard. When alarming and this menu is not set to "OFF", but select between 1 to 30, then the transmitting ANI and ALARM code will be delayed. When this menu is set "OFF" the ANI and ALARM code will be delayed after the default time(2 seconds).

Setting mutemode (SPMUTE) ---- MENU 20

The mutemode is turn on /off the speaker audio output according to your optional signalsetting, this transceiver has three kinds of modes which can be selected.

1. **QT:** When the transceiver receive a signal and matching CTCSS tone it will turn on speaker output.

When the transceiver has not set a CTCSS tone and a signal is received you will hear that through the loudspeaker.

2. **QT+DT:** When the transceiver received matching QT and DTMF signal, it will turn on the speaker.

3. **QT×DT:** When the transceiver received matching QT or QT+DT, it will turn on the speaker.

In frequency mode, press + number the screen will display

Press enter, press or and select one of QT or QT+DT or QT×DT, press to confirm, press return to standby.

■ All calls, group calls and selective calls

The transceiver has the function of transmit ANI ID CODE, edit ANI ID CODE and decoding DTMF, without by other tool, user can achieve all calls, group calls and selective calls.

How to operate

Prepare work of use all calls, group calls and selective calls

1. ID CODE edit **NOTE:** Every transceiver in the group needs a unique ANI ID CODE.

ANI ID CODE: ID---XXX

ID
└─┘

ANI ID CODE sign

X
└─┘

Group list

From 1 to 9 group,
9 groups maximum

XX
└─┘

A unique ANI ID CODE

From 00 to 99 and 100 groups maximum

This is how to buildup ANI ID CODE

The details of edit method see: MENU (17) ANI ID CODE edit (IDEDIT).

2. Setting signal

NOTE: Every transceiver in group must switch on the proper DTMF option signal.

The detail of setting DTMF see: MENU(18) Setting DTMF signal(OPTSIG).

3. The detail of setting ANI ID CODE see: MENU(14) Setting ANI ID CODE (ANI).

4. Setting mutemode is QT+DT. The detail of setting method see: MENU (20) Setting mutemode (SPMUTE).

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5. Setting ringprompt with ringtime (setting when needed) The setting method is shown in MENU (16) Setting ringtime (ART) and MENU (15) Setting callingring(RING).

NOTE

» All transceivers in the same group must set the same frequency, channel and parameter.

a. Using all calls function:

Press PTT key, input  +  directly by the keyboard.

b. Using group calls function:

Press PTT key, input group number  +  directly by the keyboard.

c. Using selective calls function:

Press PTT key, input the ANI ID CODE in which you want to call directly by the keyboard.

Setting DTMF sidetone (DTMFST) ---- MENU 21

Setting DTMF sidetone gives you the opportunity to switch on or off the speaker and hear the corresponding DTMF tone when transmit DTMF.

The transceiver has 4 different options:

①DT-ST: Switch on sidekey when transmitting.

②ANI-ST: Switch on the ANI sidetone when transmitting.

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How to operate

③DT+ANI: Sidekey and ANI sidetone are both on when transmitting.

④OFF: Turn off all.

In standby, press **MENU** + number **2** **1** and the screen will display "DTMF ST 21"

Press **MENU** enter, press **↓** or **↑** and select one function of DT-ST/ANI-ST/DT+ANI/OFF, then press **MENU** to confirm, press **EXIT** to return to standby.

Setting transmit overtime alarm (TOA) ---- MENU 22

Transmit overtime alarm is the setting to alarm the user that he/she has reached the preset time (TOT) and a voiceguide and light will flicker during transmit.

This transceiver can be set from 1 to 10 TOA in steps of 1 second.

In standby, press **MENU** + number **2** **2** and the screen will display "TOA 22"

Press **MENU** enter, press **↓** or **↑** and select OFF turn off overtime alarm or to set 1 to 10 for the overtime alarm. Press **MENU** to confirm, then press **EXIT** return to standby.

Setting workingmode (CH-MDF) ---- MENU 23

This transceiver has 4 kinds of mode can be selected: Frequency mode, channel mode, frequency+channel mode and channel name+channel mode.

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1. Frequency mode ↔ Frequency+channel mode

Transform

The MENU 23 be set as FREQ then turn off the transceiver, press **MENU** to turn on the transceiver.

2. Frequency mode ↔ Channel mode

Transform

The MENU 23 be set as CH then turn off the transceiver, press **MENU** to turn on.

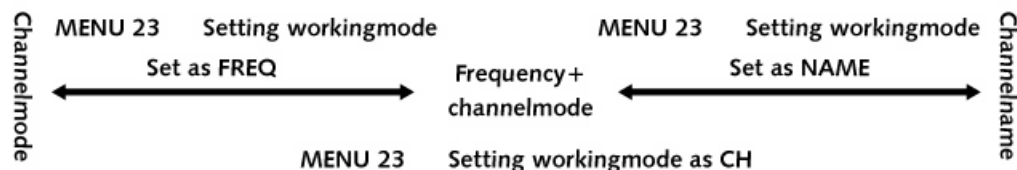
3. Frequency mode ↔ Channel name+channel mode

Transform

The MENU 23 be set as NAME then power off the transceiver, press **MENU** to power on.

4. channel mode or frequency+channel mode or channel name+channel mode transform

To operate this function you need to edit the channel name first. See details of channel name edit in MENU 34 (Page 36).



How to operate

Setting scanmode (SC-REV) ---- MENU 24

The transceiver has three scanmodes .

TO: After signal in channel disappears the transceiver will start scanning if without any operation within 5 seconds.

CO: After the transceiver stopped on a signal it will resume scanning again when signal disappears after 3 seconds.

SE: Scanning will stop when receives a signal.

In standby, press **MENU** + number **2** **4** and the screen will display "SC-REV" 24

Press **MENU** enter, press **▲** or **▼** and select TO, CO or SE, press **MENU** to confirm, press **EXIT** return to standby.

No definition (UNDEF) ---- MENU 25

Setting power on message (PONMSG) ---- MENU 26

Transceiver power on message:

OFF: Full display **BATT-V:** Displays the current voltage of battery **MSG:** WELCOME

In standby, press **MENU** + number **2** **6** and the screen will display "PONMSG" 26

Press **MENU** enter, press **▲** or **▼** and select one of OFF/BATT-V/MSG, press **MENU** to confirm, press **EXIT** to come back to standby.

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Setting radio-, scan- and lamp- function on sidekey 1 (PF1) ---- MENU 27

SCAN: Scankey **RADIO:** FMradio key **LAMP:** Lampkey **OFF:** Turn off the key functions

1. Selecting scan function:

In standby, press the sidekey 1 and the transceiver will switch to scanning mode (scanmode depending on setting in MENU (24), pressing any key will stop scanning.

2. Selecting radio function:

In standby, press sidekey 1 will turn on the radio. The radio is for the FM band from 88-108MHz and the screen will display "RADIO" 27

In radiomode, press **▲** to turn the channel and the screen will display "RADIO" 27
press **▼** the radio will reset and the screen will display "BACKED" 27

In radio mode:

- After pressing any one of the next keys you will get information about working frequency or channel number (**P** ~ **9**, **SCAN**, **▲**, **▼**, **MENU** and **EXIT**), after 5 seconds the screen will come back to "RADIO" 27. The radio works normally when operating.
- The operation of press PTT and sidekey 2 can not work.
- Press the topkey to enter the corresponding operation.

How to operate









- » When you want to exit radio, press sidekey 2 again.
- » When using the radio you must have the standard antenna connected to the transceiver.

NOTE

- » When you are listening to the radio the channel / frequency will still function. At the moment your transceiver receives a signal the FMradio will stop and you will listen to your operating channel / frequency. 5 seconds after the signal disappears the transceiver will switch back to radiomode. If you want to exit the FMradio, please press sidekey 1 again.

3. Selecting lamp function:

In standby, press sidekey 1 to startup lamp, press side key 1 again to turn off lamp.

In standby, press  + number   and the screen will display " PF 1 27"
press  enter, press  or  and select one of the functions of SCAN/RADIO/LAMP/OFF,
press  to confirm, press  to return to standby.

Setting distant urgency alarm and emergency calling function on topkey (PF2) ---- MENU 28

The top key has three kinds of functions can selectable:

ALARM: Start up distant urgency alarm









EMCALL: Transmitting emergency calling channel.

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OFF: Turn off this function

In standby, press  + number   and the screen display " PF-2 28"
Press  enter, press  or  and select one of the functions of ALARM/EMCALL/OFF,
press  to confirm, press  to return to standby.

1. When you have selected ALARM, in standby, press topkey and from your speaker an alarm will sound and the red/green lamp will flicker at the same time, press the topkey again to exit.
2. When you have selected emergency calling, in standby, press the topkey will switch to the emergency channel, press the PTT, your transceiver will communicate in emergency channel. If the emergency channel has been selected and you don't press the PTT within 3 seconds, the "DU" prompt will speak from the speaker in every other 3 seconds. Press topkey again to exit.

NOTE

- » Emergency calling channel is CH-000, the store method is described in MENU (37).

How to operate

Selecting standby displaycolor (WT-LED) ---- MENU 29

The transceiver has four colors available:

BLUE/ORANGE/PURPLE/OFF

In standby, press + number and the screen will display

Press enter, press or and select the desired color of BLUE/ORANGE/PURPLE/OFF, press to confirm, press to return to standby .

Selecting receive displaycolor (RX-LED) ---- MENU 30

The transceiver has four colors available:

BLUE/ORANGE/PURPLE/OFF

In standby, press + number and the screen will display

Press enter, press or and select the desired color of BLUE/ORANGE/PURPLE/OFF, press to confirm, press to return to standby .

Selecting transmit displaycolor (TX-LED) ---- MENU 31

The transceiver has four colors available:

BLUE/ORANGE/PURPLE/OFF

In standby, press + number and the screen will display

Press enter, press or and select the desired color of BLUE/ORANGE/PURPLE/OFF, press to confirm, press to return to standby .

Busy channel lockout (BCL) ---- MENU 32

This function is to prevent that interfere others who is on communicating. If the selected channel has been used by others, then press PTT the transceiver will transmit a alarm prompt, release the PTT, the alarm will disappear and the transceiver will return to the receivemode.


In frequencymode, press + number and the screen will display

Press enter, press or and selected ON or OFF, press to confirm, press to return to standby.

How to operate


Setting keyboard lock (AUTOLK) ---- MENU33

This transceiver has two options, autolock and manuallock.






AUTOLK: When you set autolock the keyboard will be locked within 15 seconds if you don't do any operation. To release keyboard press  for more than 2 seconds.

OFF: This will switch off autolock.

NOTE

» Manuallock, in standby, press  for more than 2 seconds and this will lock keyboard, to switch off press  again for more than 2 seconds.

In standby, press  + number   and the screen will display 

Press  enter, press  or  and select AUTO for autolock or OFF to switch off autolock, press  to confirm, press  to return to standby.

Edit channelname (CHNAME) ---- MENU 34



Edit channelname

1. Channelname can make up of 26 letters (A to Z), 10 numbers (0 to 9) or (?) (+) (-) with any of the last three symbols.
2. The channelname can have a length of max 6 bits, or you can edit one of bits from 1 to 6.
3. When you select (-) symbol means that the bit is blank.


Edit method

1. Via program software.
2. Via keyboard of transceiver.

Edit channelname

1. At least one channel should have been stored.
2. The transceiver should be in channelmode.
3. Enter the channelname edit, then press  to select character, press  to select edit position.

Edit step

1. If the transceiver works in frequency mode, set the workmode as NAME in the display then press  and power on again, If the transceiver works in CH mode, then go through MENU 23 set the display to NAME.

How to operate

2. Select the desired edit channel, press **[MENU]** + **[F3]** + **[F4]** + **[MENU]** and then the screen display 6 digits, press **[F1]** and select the character then press **[F2]**, press **[F1]** again to select two character, after selecting the sixth character press **[MENU]** to confirm, press **[EXIT]** to exit. The screen will display the channelname and show the order of this channel on top rightcorner.

Setting beat frequency shift (BS) ---- MENU 35

In frequencymode, press **[MENU]** + number **[F3]** **[F5]** and the screen will display " **BS** **35** ". Press **[MENU]** enter, press **[F1]** or **[F2]** and selected ON or OFF, press **[MENU]** to confirm, press **[EXIT]** to return to standby.

NOTE

» This transceiver's functions have been controlled by microprocessor, therefore, the receive frequency will be disturbed by CPU clock surge, in this case you can switch on the beat frequency shift.

Setting stopwatch timer (SECOND) ---- MENU 36

In standby, press **[MENU]** + number **[F3]** **[F6]** and the screen will display " **SECOND** **36** ". Press **[MENU]** enter, press **[F1]** or **[F2]** and selected ON or OFF, press **[MENU]** to confirm, press **[EXIT]** to return to standby.

Using the stopwatch timer:

When the stopwatch is turning on, press **[F#]** key one time and the stopwatch starts to count, press any key to stop counting. When you want to start counting again press the **[F#]**.

NOTE

» When the stopwatch function is stopped you can press any key (except **[F#]** key) to exit the stopwatch function.

Setting memorychannel=Setting co-channel and dis-channel (MEM-CH) ---- MENU 37

When the transceiver works in frequencymode and is in standbymode, you can input the frequency and each parameter what you want to store.

Press **[MENU]** + number **[F3]** **[F7]** and the screen will display " **MEM-CH** **37** ".

How to operate

Press **[MENU]** enter, press **[F1]** or **[F2]** and select channel, press **[MENU]** to store, and will you hear an announcement if it is stored.

Press **[EXIT]** to exit, at this moment the channel should be co-channel frequency channel.

When you need to store dis-channel, repeat the above procedure, after you stored you will hear a voiceprompt "store transmit".

Eg: You want 450.025MHz for received and 460.025MHz for transmit and store in CH-20, then act as follows:

1. When the transceiver works in frequency mode, input **[4] [5] [0] [0] [2] [5]**, **[MENU] + [3] [7] + [MENU]**, then press **[2] [0]** or **[F1]** or **[F2]** and select CH-20, press **[MENU]** to confirm, voiceprompt will tell you it is stored, press **[EXIT]** to exit;
2. Then input **[4] [6] [0] [0] [2] [5] + [MENU] + [3] [7] + [MENU] + [MENU]** and voiceprompt will tell you it is stored, press **[EXIT]** to exit;
3. The dis-channel is stored.

NOTE

» Besides manual store, this transceiver also can store via programming software of MENU 34 to set each parameter.

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Delete channel (DEL-CH) ---- MENU38

In standby, press **[MENU] + number [3] [8]** and the screen will display **"DEL-CH 38"**

Press **[MENU]** enter, press **[F1]** or **[F2]** and select the channel you want to delete, press **[MENU]** to confirm, the selected channel and message are deleted, press **[EXIT]** to return to standby.

Frequency shift direction (SFT-D) ---- MENU 39

SFT means that:

1. The transmit frequency higher than receive frequency this is called positive offset. (+)
2. The transmit frequency lower than receive frequency this is called negative offset. (-)
3. Turn off frequency shift.

In standby, press **[MENU] + number [3] [9]** and the screen will display **"SFT-D 39"**

Press **[MENU]** enter, press **[F1]** or **[F2]** and select +/- / OFF, press **[MENU]** to confirm, press **[EXIT]** to return to standby.

How to operate

Setting offset frequency (OFF-SET) ---- MENU 40

Offset frequency is the difference between the transmit and receive frequency. The transceiver range can be from 0 to 69.950MHz.

In standby, press **MENU** + number **4** **P** and the screen will display "OFF SET" 

Press **MENU** enter, press **+** or **-** to select offset frequency. Press **MENU** to confirm, press **EXIT** to return to standby.

NOTE

» The frequency shift direction and offset frequency can only be programmed when the transceiver works in frequency mode.

Follow the next steps:

1. Set working frequency.
2. Set frequency shift direction and offset frequency.


Eg: In frequency mode, the transceiver will work in the receive frequency 450.025MHz, and transmit frequency will set 460.025MHz.


In frequency mode, order input **4** **5** **P** **P** **2** **5**, press **MENU** + **3** + **9** + **MENU** and select the positive offset (+); press **MENU** + **EXIT**, then press **MENU** + **4** + **P** + **MENU**


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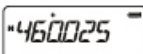
+ **+** or **-** and select 10.000+ **MENU** + **EXIT**, the frequency shift direction plus offset frequency are complete.

The screen will display  "450.025"

When press **PTT** key the screen will display  "460.025"

When release **PTT** key the screen will display  "450.025"

Now the receive frequency is  "450.025"

The transmit frequency is  "460.025"

How to operate

Setting reset ---- MENU 41

The transceiver has a menu which resets VFO and ALL messages.

When you use RESET VFO, all parameter will return to factory default.

When you use RESET ALL, all transceivers and channel parameter return to factory default.

1. MENU reset (VFO):

In standby, press + number and the screen will display " RESET "

Press enter, press or and select VFO, press and the screen will display " SOURCE " .

Press again, and the screen will display " WAIT "

When the reset has worked well the transceiver will auto power off and auto switch on again.

2. All message reset (ALL):

In standby, press + number and the screen will display " RESET "

Press enter, press or and select ALL, press and the screen will display " SOURCE "

When reset has worked well, the transceiver will auto power off and switch on again.

Press again, and the screen will display " WAIT "

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Setting reverse frequency function

When using reverse frequency function, the transceivers transmit and receive frequency will interchange and the setting of CTCSS and DCS encode and decode also will interchange.

■ Operating reverse frequency function:

In standby, press and this will turn on reverse frequency function, press again and this will turn off reverse frequency function.

Lowvoltage batterypack voiceprompt

When the batterypack has lowvoltage, the transceiver will sound low lowvoltage voiceprompt and the backlight will flicker once every 5 seconds and will sound "DI" at the same time.

Adding channel scan

NOTE

- » Channel scan only according scan list which had been added.
- » Edit method: Strictly via programming software.

How to operate

Wireclone function

Using wireclone	Switch sourceradio on, after you have connected the targetradio to the sourceradio via the cloningcable, push the [MONI] key and the sourceradio starts cloning.	LED is flashing red during cloning. LED goes out in case of successful cloning. LED glows continuous red in case of cloning failure.
	Targetradio	LED is flashing green during cloning. LED will switch OFF when cloning complete.

Setting transmit overtime prompt

When transmitter works longer than preset time, the transceiver will announce "transmit overtime" by voice and stops transmitting. If you want to transmit again, please press **PTT**. (Setting overtime prompt please see MENU 6)

Programming repeater function

Most repeaters use standard or different splits and/or matching CTCSS/DCS or DTMF signals.

When you need to join a repeater, you need to set different parameters on receive and transmit.

Eg. The repeater transmit frequency for 450.025MHz, CTCSS value for 67Hz, receive frequency for 460.025MHz, CTCSS value for 254.1Hz.

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When the transceiver needs to join this repeater, you need to follow the following steps:

1. Set receive frequency, CTCSS value and store this in appointed channel, eg. channel 20. The transceiver in frequency mode, setting receive frequency to 460.025MHz, CTCSS value 254.1Hz, and store to channel 20. The operating is as following:
In frequency mode, order input **4** + **6** + **P** + **0** + **2** + **5**, **MENU** + **1** + **0** + **MENU**, press **↓** or **↑** and select CTCSS value 254.1 + **MENU**; + **3** + **7** + **MENU**; **2** + **P** and voice prompt receive store, press **ENT**.
2. Setting transmit frequency, CTCSS value, and store this in appointed channel 20. The transceiver in frequency mode, setting transmit frequency as 450.025MHz, setting CTCSS value as 67Hz and store in channel 20.
In frequency mode, order input **4** + **5** + **0** + **P** + **2** + **5**, **MENU** + **1** + **0** + **MENU**, press **↓** or **↑** and select CTCSS value 67 + **MENU**; + **3** + **7** + **MENU**; **2** + **P** + **MENU**. Voice prompt transmit store, press **ENT**.
3. Press **MENU**, turn on the power at the same time, the transceiver works in channel mode at this time, press **↓** or **↑** select channel 20, the transceiver can join repeater.

How to operate



How to use the intelligent charger

1. When the poweradapter is connected the intelligentcharger, the poweradapter should be plugged into the matchingvoltage. The intelligentcharger will flicker once, then go into the standby mode which means that you can charge the batterypack; When you plug in the batterypack, the intelligentcharger will switch to red LED which means that it has being charged.
2. When the green light flickers, the batterypack is fully charged.
3. After you plug in the batterypack which the voltage is lower than 6V (it is lower than 6V if you can not power on the transceiver), the red LED flickers which means that the batterypack is being trickle charged by intelligentcharger and this will last about 10 minutes. When the light turns red, it will go into the normal charge.
4. After you plug in the batterypack which the voltage is higher than 6V(it is higher than 6 V if you can power on the transceiver), the red LED flickers, at this time, please confirm whether the batterypack is plugged in right with intelligentcharger.

Trouble shooting

Please check carefully if your transceiver has problems by following this chart.

If you maintain to have trouble you can reset your transceiver and very often this will eliminate your problem.

Problem	Possible Cause	Possible Solution
Transceiver will not switch on.	<ol style="list-style-type: none">1. The batterypack is not installed properly.2. The batterpack maybe exhausted.3. The batterypack is getting too old.	<ol style="list-style-type: none">1. Re-install the batterypack.2. Charge the batterypack.3. Change the batterypack.
The receiverlight is on and there is no sound from the speaker.	<ol style="list-style-type: none">1. The powerswitch is not adjusted well.2. Confirm if your CTCSS/DCS tone is the same as others.3. Confirm if you use the right mutemode.	<ol style="list-style-type: none">1. Tum the volumecontrol.2. Reset the CTCSS/DCS3. Reset the mutemode.
There is no reception	<ol style="list-style-type: none">1. Check if you have installed your antenna right.2. The signal you are receiving is very weak.	<ol style="list-style-type: none">1. Install the supplied antenna.2. Move the radio around till you receive the desired signal or press  to reset and then press  to go to right channel

Trouble shooting

Problem	Possible Cause	Possible Solution
Keyboard and PTT switch do not work.	1. The keyboard is locked. 2. RADIO "mode" is switched on, see displayFM.	1. Set keyboard to free. 2. Please exit RADIO mode.
The receivelight is on and you can not transmit.	If you have set transceiver to busychannel lockout.	Switch off busychannel lockout.
You can not store certain settings.	In channel mode or frequency+channel mode you cannot set parameters.	Set transceiver to frequency mode.
Autotransmit when you are in standby.	The VOX level too LOW	Switch off VOX or set VOX to a HIGHER level.
During communication you receive other group(s) or receive distorted signal.	The frequency and the CTCSS/DCS are the same as other users.	Change the setting of CTCSS/DCS,frequency or channel.

Technology parameter

Appendix 1

CTCSS

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91.5	20	127.3	30	167.9	40	199.5	50	254.1

Appendix 2

DCS

1	D023N	16	D074N	31	D165N	46	D261N	61	D356N
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N
6	D036N	21	D125N	36	D223N	51	D274N	66	D412N
7	D043N	22	D131N	37	D225N	52	D306N	67	D413N
8	D047N	23	D132N	38	D226N	53	D311N	68	D423N
9	D051N	24	D134N	39	D243N	54	D315N	69	D431N
10	D053N	25	D143N	40	D244N	55	D325N	70	D432N
11	D054N	26	D145N	41	D245N	56	D331N	71	D445N
12	D065N	27	D152N	42	D246N	57	D332N	72	D446N
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N

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DCS

76	D462N	82	D516N	88	D606N	94	D645N	100	D723N
77	D464N	83	D523N	89	D612N	95	D654N	101	D731N
78	D465N	84	D526N	90	D624N	96	D662N	102	D732N
79	D466N	85	D532N	91	D627N	97	D664N	103	D734N
80	D503N	86	D546N	92	D631N	98	D703N	104	D743N
81	D506N	87	D565N	93	D632N	99	D712N	105	D754N

Technology specification

Frequencyrange	VHF: 66-88MHz	
	VHF: 136-174MHz	VHF: 245-246MHz
	UHF: 300-350MHz	UHF: 350-390MHz
	UHF: 400-470.9875MHz	UHF: 450-520MHz
Memorychannels	128 channels + 1 emergency calling channel	
Voltage	7.4V DC	
Working temperature	-30℃ (-22F) to + 60℃ (140F)	
Channels	Co-channel or Dis-channel simplex	
Poweroutput	VHF: 5W / UHF: 4W	
Mode	F3E(FM)	
Maximum deviation	≤ ±5KHz	
Adjacent channel power	< -60dB	
Stability	±5 ppm	
Sensitivity	< 0.2 μV	
Audio output power	≥ 500mW	
Weight	250g	
Size	62 X 106 X 39 (mm)	2.44x4.18x1.54(inch)

NOTE

» Specifications are subject to change without notice.

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Optional accessories

Wouxun

Professional FM Transceiver



Dual slot charger



"AA" battery pack



Eliminator



Programming cable



Car charger



Wireless cable



Headset



Speaker/MIC



Switching adapter



1700mAh Li-ion battery pack



Programming Software

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Announce

Wouxun endeavors to achieve the accuracy and completeness of this manual, but is not liable for any possible omission and printing errors. All the above specifications are subject to change by Wouxun without prior notice.

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