


Thanks for buying  Wouxun brand KG-669 series transceiver. This transceiver is in novel design, strong function, stable behavior and easily operate, we believe the quality and function of the product will make you satisfying.

*Make you well understand this machine , please read this manual particular before using.
This user's manual is used in KG-669 series transceiver.*

Warning 

» Explosive atmospheres (gases dust fumes. etc).

» Turn off you transceiver while taking on fuel, or while parked in gasoline service stations.

Announcements

WOUXUN brand transceiver are provided with excellent design and advanced technology. The following advice will help you that come to time of the guarantee period item and understand the safety to the operation of any transceiver.

1. Please put the transceiver and all parts in fittings place that child can't touch.
2. Do not try to take it apart, repair, deal with it by nonprofessional may cause it damage.
3. For fear attain the transceiver, please use equip battery and charger of our company's.
4. For fear shorten communication distance, please use equip antenna of our company's.
5. Do not expose the transceiver to long periods of direct sunlight nor place close to heating appliances.
6. Do not place the transceiver in excessively dusty, humid, or wet area.
7. Do not use strong chemical, cleanser or wash to clear the transceiver.
8. Do not transmit when not install antenna.
9. If an abnormal odor or smoke is detected coming from the transceiver, switch off the power immediately and remove the optional battery pack from the transceiver. Contact your **WOUXUN** dealer.

Apprize

- » All advice above-mentioned are the same with **WOUXUN** transceiver and all fittings. If them can't well work, please contact **WOUXUN** dealer in time.
- » **WOUXUN** does not guarantee the safety and operation of the transceiver when using accessories and / or attachments not sold by **WOUXUN**.

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Professional FM Transceiver

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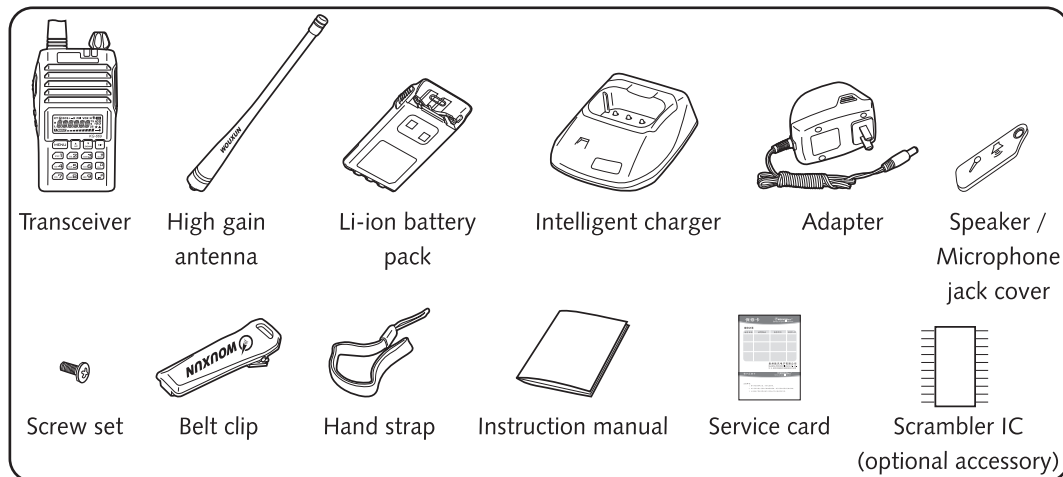
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Unpacking and checking equipment



Carefully unpacking 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 confirm dealer.

Supplied accessories



Function characteristic introduce

1. Full frequency range VHF:136-174MHz UHF:350-390 MHz UHF:400-470.9875 MHz
2. Output power:5W VHF / 4W UHF
3. 128 memory channels + 1 group emergency channel
4. DTMF encoding and decoding
5. ANI ID code (caller ID)
6. VOX transmission function
7. All call, group call and selective call function
8. Calling ring function
9. Scrambler set = 4 group channels what can be selectable (optional accessory)
10. 105 groups D.C.S / 50 groups CTCSS
11. Voice guide (Chinese / English)
12. Width / Narrow bandwidth select (25KHz / 12.5KHz)
13. Three color back light can be selectable for receiving, transmitting and standby mode.
14. Frequency / Channel / Channel name display mode
15. Talk around function
16. Distant urgency alarm function
17. Emergency calling function
18. Multi scan function

02

Function characteristic introduce

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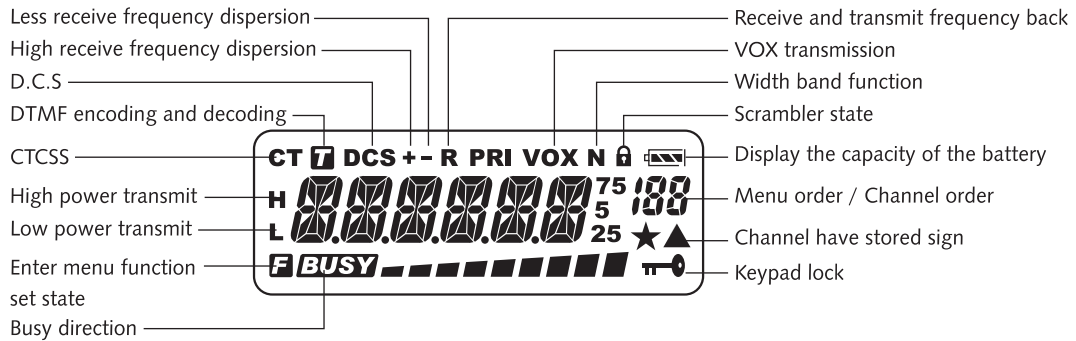
19. FM radio function
20. Step frequency (5 / 6.25 / 10 / 12.5 / 25KHz)
21. High / Low power selectable (5W / 1W)
22. Li-ion battery
23. Intelligent charger (Notice sound and two color light)
24. Frequency space set (0-69.685MHz)
25. Set frequency shift direction
26. Real time clock
27. Stopwatch timer function
28. Busy channel lockout
29. Multi display mode when power on (full screen / Batt-V / others)
30. Low-battery voice prompt
31. Keyboard lock (auto / manual)
32. Shortcut operation and search
33. Programmable by computer
34. Menu / Channel reset

03

Getting started

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:

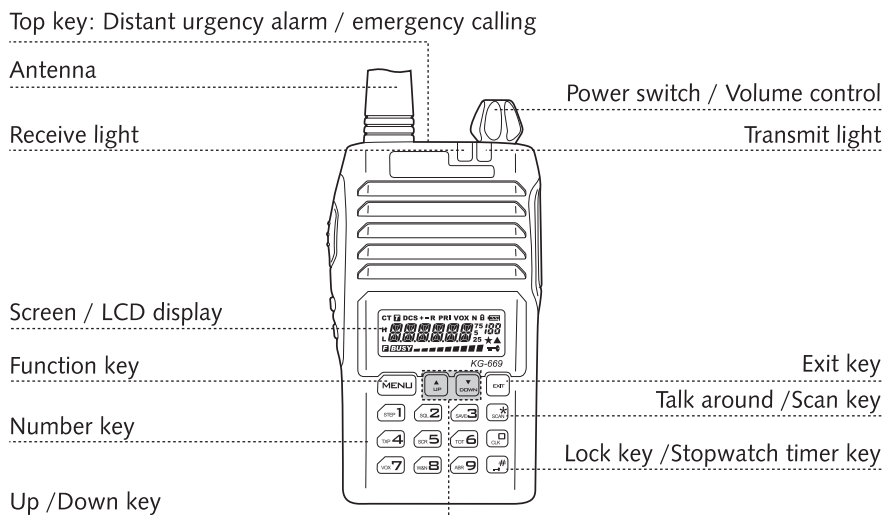
- Battery capacity indicator (full)
- Battery capacity have exhausted
- Battery spare capacity
- Receive signal dactyl

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Getting started

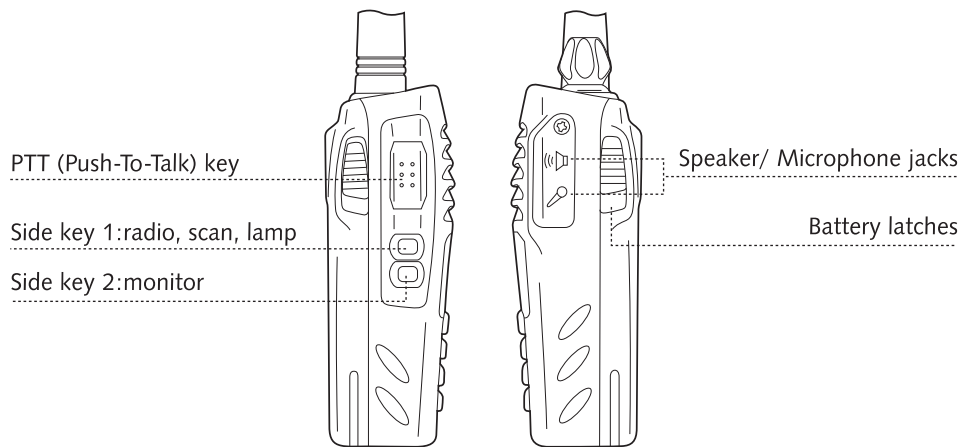
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Each part



05

Getting started







06

Getting started

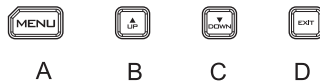
WOUXUN
Professional FM Transceiver

■ Celerity search

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

■ DTMF encoding

This transceiver have DTMF encoding function, on transmit state input the number key or other function key directly from keyboard, and the correspond DTMF number send out. The function key send out following DTMF number.



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Chart flow for function shortcut operation (attach sheet)

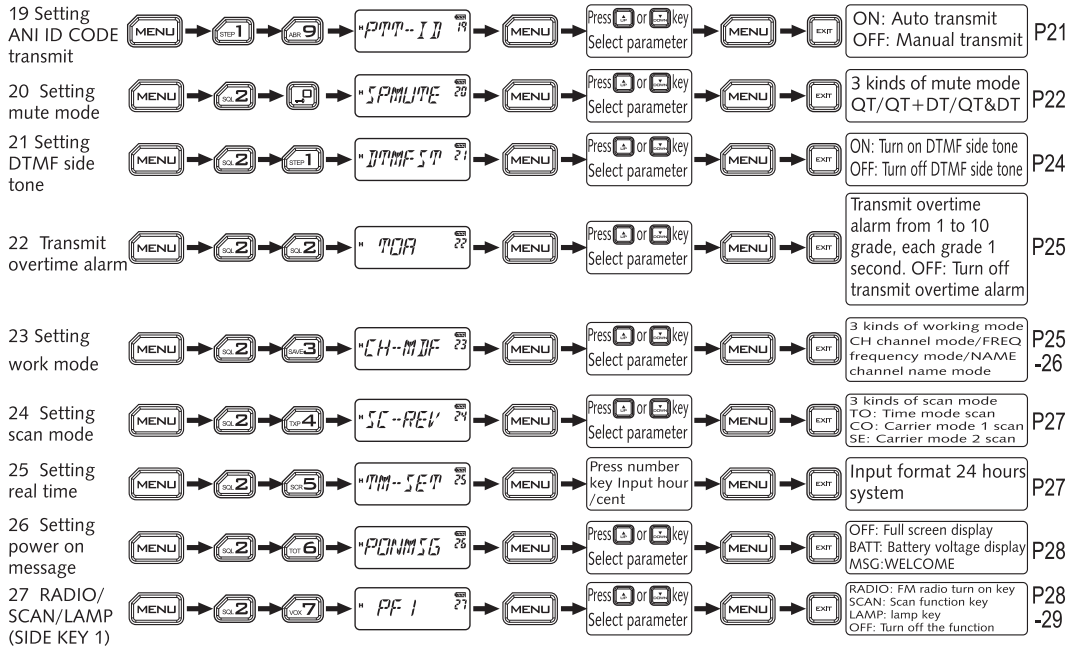
Function order	Function name	Enter function set	Screen display	Select parameter	Confirm	Back	Selectable parameter explain	See page
0	Clock on switch	MENU → [9]	"CLOCK" ⁰⁹	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on clock OFF: Turn off clock	P13
1	Setting step frequency	MENU → [STEP 1]	"STEP" ⁰¹	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		5 kinds of step frequency 5K/6.25K/10K/12.5K/25K	P13
2	Setting squelch level	MENU → [SQ 2]	"SQL -LE" ⁰²	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		Squelch level from 0 to 9 grade	P13
3	Setting save mode	MENU → [SAVE 3]	"SAVE" ⁰³	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on save function OFF: Turn off save function	P14
4	Selecting transmit power	MENU → [TWP 4]	"TWP" ⁰⁴	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		H: High power (5W) L: Low power (1W)	P14
5	Setting scrambler	MENU → [SCR 5]	"SCR" ⁰⁵	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		1 to 4: 4 kinds of scrambler mode OFF: Turn off scrambler set	P15
6	Over timer	MENU → [TOT 6]	"TOT" ⁰⁶	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		Over timer have 40 grades, each grade 15 second OFF: Turn off over timer	P15
7	Setting VOX	MENU → [VOX 7]	"VOX" ⁰⁷	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		VOX transmission from 1 to 10 grade OFF: Turn off VOX transmission	P16
8	Setting narrow band	MENU → [NARR 8]	"NARR" ⁰⁸	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		WIDE: Wide brand (25K) NARR: Narrow brand (12.5K)	P16

08

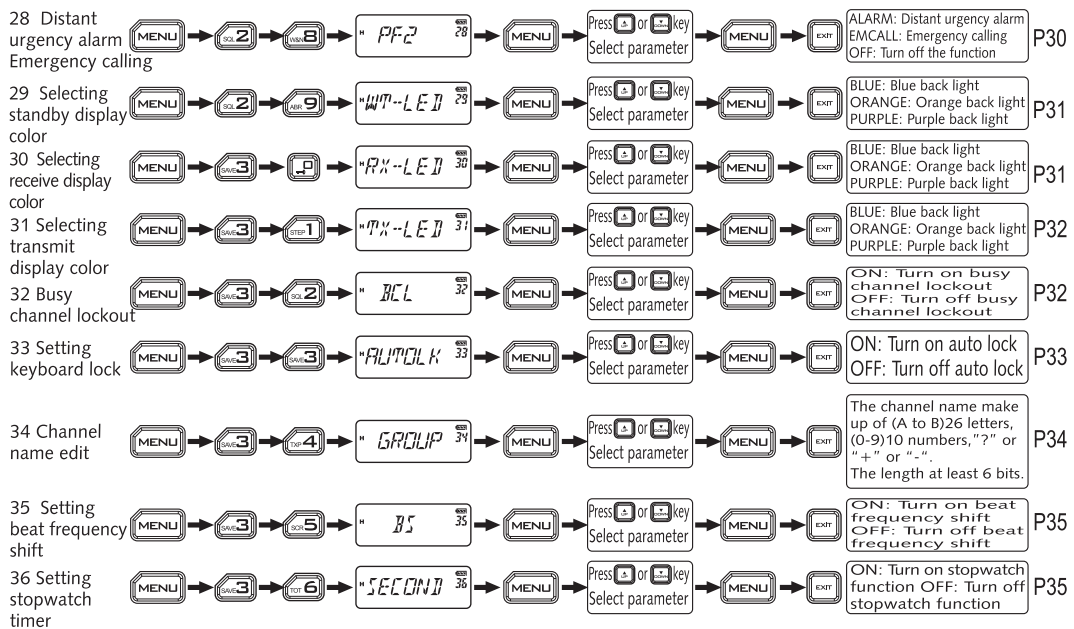
9	Setting auto back light	MENU → [9]	"ABR" ⁰⁹	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on auto back light OFF: Turn off auto back light	P16
10	Setting CTCSS	MENU → [STEP 1] → [9]	"CTCSS" ¹⁰	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		50 groups CTCSS (67 to 254.1MHz) OFF: Turn off CTCSS	P17
11	Setting D.C.S	MENU → [STEP 1] → [STEP 1]	"DCS" ¹¹	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		105 groups D.C.S (D023N-D754N) OFF: Turn off D.C.S	P17
12	Setting voice guide	MENU → [STEP 1] → [SQ 2]	"VOICE" ¹²	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		CHINES: Chinese guide ENGLISH: English guide OFF: Turn off voice guide	P18
13	Setting beep prompt	MENU → [STEP 1] → [SAVE 3]	"BEEP" ¹³	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on beep prompt OFF: Turn off beep prompt	P18
14	ANI ID CODE switch	MENU → [STEP 1] → [TWP 4]	"ANI" ¹⁴	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on ANI ID CODE OFF: Turn off ANI ID CODE	P19
15	Setting calling ring	MENU → [STEP 1] → [SCR 5]	"RING" ¹⁵	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on calling ring OFF: Turn off calling ring	P19
16	Setting ring time	MENU → [STEP 1] → [TOT 6]	"RTM" ¹⁶	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		Ring time have 10 grade each grade 1 second OFF: Turn off ring prompt	P20
17	ANI ID CODE edit	MENU → [STEP 1] → [VOX 7]	"IDEDIT" ¹⁷	MENU → Press number key input ID CODE	MENU → [ENT]		Personal ANI ID CODE can be selectable from 100 to 999	P20
18	Setting DTMF signal	MENU → [STEP 1] → [NARR 8]	"DTMF SIG" ¹⁸	MENU → Press [2] or [3] key Select parameter	MENU → [ENT]		ON: Turn on DTMF signal OFF: Turn off DTMF signal	P21

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Chart flow for function shortcut operation (attach sheet)

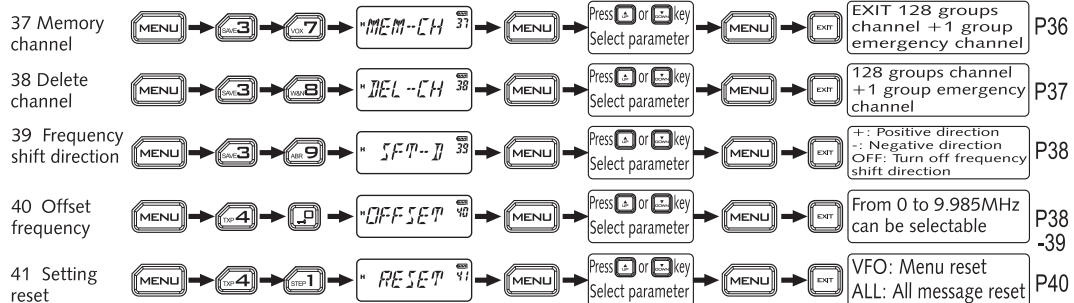


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11

Chart flow for function shortcut operation (attach sheet)



- Setting talk around function (See No.41 page)
- Celerity search function [UP] / [DOWN] (See No.07 page)
- All call, group call and selective call (See No.22-24 page)
- Low battery voice prompt (See No.41 page)
- Join working on repeaters (See No.41-42 page)

Function operate

Setting clock on (CLOCK) --- MENU 0

In standby state, press [MENU] key + number key [0] the screen will display "CLOCK 0". Press [MENU] key enter, press [UP] or [DOWN] key select ON clock turn on or OFF clock turn off. Press [MENU] key confirm, press [EXIT] key back to standby state.

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

In standby state, press [MENU] key + number key [1], the screen will display "STEP 1". Press [MENU] key enter, press [UP] or [DOWN] key select the step frequency of you need, then press [MENU] key confirm, press [EXIT] key back to standby.

This transceiver have 5KHz, 6.25KHz, 10KHz, 12.5KHz, 25KHz 5 kinds of step frequency can be selectable.

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



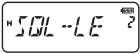



Select the squelch level is that when the signal of you select attain how intensity can turn on the squelch level or the signal how low can turn off the squelch.

When turn on the squelch and the transceivers signal of set are consistent the speaker will sound the voice. The squelch level select too high may cause the transceiver can't efficiency receive when the signal faintness; select too low may get the yawp or other foreign signal faze.



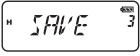





Function operate

NOTE



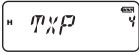





» This transceiver can be selectable from 0 to 9, there into 0 grade always open squelch , from 1 to 9 grade the squelch too high the grade too great.

In standby state, press  key + number key  the screen will display 
Press  key enter, select the squelch of you need, then press  key confirm, press  key back to standby state.

Setting save mode (SAVE) --- MENU 3

In standby state, press  key + number key  the screen will display 
Press  key enter, press  or  key select ON turn on save mode or OFF turn off save mode.
Press  key confirm, press  key back to standby state.

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



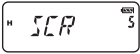





On frequency mode, press  key + number key  the screen will display 
Press  key enter, press  or  key select HIGH high power or LOW low power, then press  key confirm, press  key back to standby state.

This transceiver have 5W and 1W 2 kinds of power can be selectable.

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Setting scrambler (SCR) and 4 group scrambler method can be selectable

---- MENU 5

In standby state, press  key + number key  the screen will display 
Press  key enter, press  or  key select OFF turn off voice scrambler or one of the different scrambler method from 1 to 4, press  key confirm, press  key back to standby state.



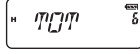





NOTE

» 4 group scrambler methods can be selectable.
» Built the effective communication must select the same scrambler with the transceiver settings.

Over timer (TOT) ---- MENU 6

The over timer is aim limit the transceiver long time transmitting. When the transceiver over regulate time continuum long time transmitting, the transceiver been stopped transmit, and sound prompt.

This transceiver over timer can set range from 15 to 600 second, dispart 40 grade, each grade 15 second.

In standby state, press  key + number key  the screen will display 
Press  key enter, press  or  key select the level of you need when transmitting, press  key confirm , press  key back to standby state.

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Function operate

Setting VOX (Voice of transmit) ---- MENU 7

In standby state, press key + number key the screen will display .
Press key enter, press or key select OFF turn off VOX or select turn on the level from 1 to 10 grade, press key confirm, press key back to standby state.

NOTE

- » When the level is set too high and VOX needs more loud to active.
- » On scan and radio state can't turn on the VOX function.

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

In standby state, press key + number key the screen will display .
Press key enter, press or key select WIDE wide band or NARR narrow band, then press key confirm, press key back to standby state.

Setting auto back light switch (ABR) ---- MENU 9

In standby state, press key + number key the screen display .
Press key enter, press or key select ON turn on auto back light or OFF turn off auto back light, then press key confirm, press key back to standby state.

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Setting CTCSS (CTCSS) ---- MENU 10

On frequency mode, press key + number key the screen will display .
Press key enter, press or key select OFF turn off CTCSS or one of the CTCSS value from 67HZ to 254, press key confirm, press key back to standby state.

NOTE

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

Setting D.C.S (D.C.S) ---- MENU 11

On frequency mode, press key + number key the screen will display .
Press key enter, press or key select OFF turn off setting D.C.S or one of the D.C.S value from D023N to D754N, press key confirm, press key back to standby state.

NOTE

- » This transceiver have 105 groups D.C.S, see appendix (2) D.C.S frequency sheet.

Function operate

Setting voice guide (VOICE) ---- MENU 12

This transceiver have Chinese and English two kinds of voice guide can be selectable. Display CHINESE is Chinese prompt and ENGLISH is English prompt.

In standby state, press key + number key the screen will display . Press key enter, press or key select CHINESE Chinese prompt or ENGLISH English prompt or OFF turn off one kind of voice guide, then press key confirm, press key back to standby state.

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

Beep prompt function (BEEP) ---- MENU 13

Beep prompt function is confirm the transceiver operate prompt, operate error state or one prompt function of trouble status.

Advice you turn on this function. This function is convenience for you to check error operate and mistake.

In standby state, press key + number key the screen will display . Press key enter, press or key select ON turn on beep prompt and OFF turn off beep prompt, then press key confirm, press key back to standby state .

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NOTE

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

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

In standby state, press key + number key the screen will display . Press key enter, press or key select ON turn on ANI ID CODE or OFF turn off ANI ID CODE, press key confirm, press key back to standby state.

Setting calling ring switch (RING) ---- MENU 15

Calling ring switch is when the transceiver received DTMF matching signal then sound the ring prompt. The ring prompt time decide by MENU(16) setting ,when over the ring setting value the speaker turn on.

In standby state, press key + number key the screen will display . Press key enter, press or key select ON turn on or OFF turn off then press key confirm, press key back to standby state.

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Function operate

Setting ring time (ART) ---- MENU 16

When received the right DTMF signal ,the speaker sound clear ring prompt.

In standby state, press or key select one of the ring time from 0 to 10, press key confirm, press key back to standby state.

NOTE

» This transceiver have 10 grade ring time, each grade 1 second , thereinto 0 is turn off ring.

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

On frequency mode, press key + number key the screen will display Press key enter, directly input the ID CODE of you needs, then press key confirm, press key back to standby state.

NOTE

» ID CODE selectable range from 100 to 999 .

Setting DTMF signal ---- MENU 18

On frequency mode, press key + number key the screen will display Press key enter, press or key select ON turn on DTMF signal or OFF turn off DTMF signal, then press key confirm, press key back to standby state.

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

Setting ANI ID CODE transmit is when communicating with the transceiver press PTT per time the ANI ID CODE auto or manual transmit.

In standby state, press key + number key the screen will display Press key enter, press or key select ON auto transmit ANI ID CODE or OFF manual transmit ANI ID CODE then press key confirm, press key back to standby state.

NOTE










» When selecting manual transmit ANI ID CODE, press PTT key communicating directly input the transceiver ANI ID CODE by keyboard.

Function operate

Setting mute mode (SPMUTE) ---- MENU 20

The mute mode is turn on /off the speaker audio output according to your optional signal setting, this transceiver have three kinds of mode can be selected.

1. **QT:** When the transceiver received signal and matching CTCSS turn on speaker output. If the transceiver not set CTCSS, as far as received the signal can also turn on the speaker output.
2. **QT+DT:** When the transceiver received term of QT and DTMF signal matching turn on the speaker output .
3. **QT×DT:** When the transceiver received term of QT or DTMF signal matching turn on the speaker output.

On frequency mode, press  key + number key   the screen will display  Press  key enter, press  or  key select one of QT or QT+DT or QT×DT, press  key confirm, press  key back to standby state.

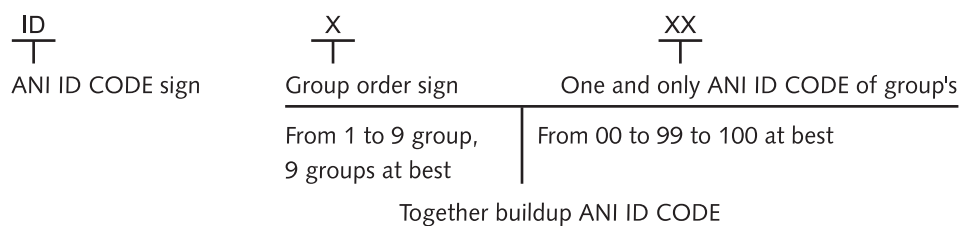
■ All call, group call and selective call

The transceiver have transmit ANI ID CODE, edit ANI ID CODE and decoding DTMF function, when not by dint of others, using all user's can achieve all call, group call and selective call each other.

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

1. **ID CODE edit** **NOTE:** Use any transceiver of groups must edit different ANI ID CODE.

ANI ID CODE: ID---XXX



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

2. **Setting signal**

NOTE: Use any transceiver of the groups all must turn on the DTMF annex signal set.

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

3. The detail of setting ANI ID CODE see: MENU(14) Setting ANI ID CODE switch (ANI).
4. Setting mute mod is QT+DT. The detail of setting method see: MENU (20) Setting mute mode (SPMUTE).

Function operate

5. Setting turn on ring prompt with ring time (setting when needs) The setting method see: MENU (16) Setting ring time (ART) and MENU (15) Setting calling ring switch (RING).

NOTE

» The groups transceiver all must setting the same frequency, channel and parameter of using.

a. Using all call function:

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

b. Using group call function:

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



c. Using selective function:

Press PTT key, input the ANI ID CODE of you selective directly by the keyboard.

Setting DTMF side sound (DTMFST) ---- MENU 21

Setting DTMF side sound is whether turn on the speaker and head the DTMF tone from the speaker when transmitting.

In standby state, press  key + number key   the screen will display 





Press  key enter, press  or  key select ON turn on or OFF turn off , then press  key, press  key come back to standby state.




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

Transmit overtime alarm is the time before reach the setting time will voice prompt and flicker the light when transmitting.

The transceiver from 1 to 10 grade overtime alarm can be selectable, each grade 1 second, one grade is the transceiver setting the time prompt before 1 second.

In standby state, press  key + number key   the screen will display 

Press  key enter, press  or  key select OFF turn off overtime alarm or 1 to 10 grade overtime alarm.

Press  key confirm, press  key back to standby state.

Setting work mode (CH-MDF) ---- MENU 23


The transceiver have frequency mode, channel mode, frequency+channel mode and channel name+channel mode, 4 kinds of working mode.

I. Frequency mode  **Frequency+channel mode**
Transform


MENU 23 setting work mode as FREQ then power off, press  key power on.

Function operate

2. Frequency mode ↔ Channel mode

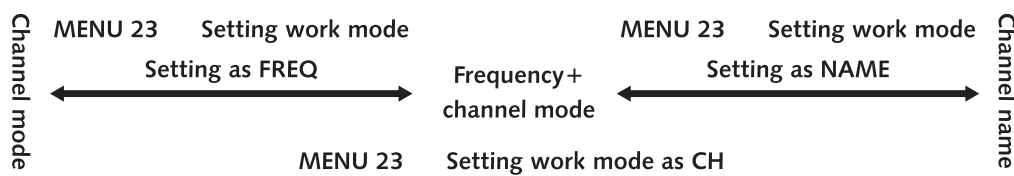
MENU 23 setting work mode as CH then power off, press  key power on.

3. Frequency mode ↔ Channel name+channel mode

MENU 23 setting work mode as NAME then power off, press  key power on.

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

The channel name mode must edit the channel name at first then can transform. The channel name edit method see MENU 34 channel name edit (Page 34)






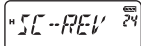





Setting scan mode (SC-REV) ---- MENU 24

The transceiver have three scan modes can be selectable.




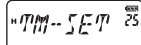



TO: When search the signal, without any operate within 5 second, go on scan.

CO: When search the signal stop scan, when the signal disappear after 3 second then go on scan.

SE: When search the signal stop can.

In standby state, press  key + number key   the screen will display  Press  key enter, press  or  key select TO, CO or SE one of the scan mode, press  key confirm, press  key back to standby state.

Setting real time (TM-SET) ---- MENU 25

In standby state, press  key + number key   , the screen will display  press  key enter, the screen zone flicker, enter the real time from the number key directly, press  key confirm, press  key back to standby state.

NOTE

» The real time format system is 24 hours.

Function operate

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

The transceiver power on message mode:

OFF: Full display **BATT-V:** Display the current voltage of battery **MSG:** Welcome
In standby state, press key + number key the screen will display .
Press key enter, press or key select one of OFF/BATT-V/MSG, press key confirm, press key come back to standby state.

Setting radio, scan and lamp function in side key 1 (PF1) ---- MENU 27

SCAN: Scan key **RADIO:** FM radio key **LAMP:** Long lamp key **OFF:** Turn off this keys function

1. Selecting scan function:

In standby state, press the side key 1 the transceiver go scanning state (scan mode depend the MENU (24) setting scan mode), on scanning press any key stop scan.

2. Selecting radio function:

In standby state, press side key 1 turn on the radio. The radio is FM (Frequency modulation) reception.

The frequency of reception is 88-108MHz, the screen will display

On radio state, press key turn channel, the screen will display

press key make the radio replacement, the screen will display

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On radio state:

- Press one key of ~ , , , , key look over working frequency and channel, after 5 second the screen come back display .
When operating the radio work normally.
- Press PTT key and side key 2 are inefficacy key.
- Press Top key enter correspond function operating.
 - » Exit radio state, please press side key 1 again.
 - » When using radio, the transceiver must install random antenna.

NOTE

» When the FM radio working, the current frequency or channel still in receiving state, if receive the signal, The FM radio will stop working, transceiver move to previous state automatically.

3. Selecting lamp function:

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

In standby state, press key + number key the screen will display .
press key enter, press or key select one function of SCAN/RADIO/LAMP/OFF,
press key confirm, press key back to standby state.

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Function operate

Setting distant urgency alarm and emergency calling function in top key (PF2)

---- MENU 28

The top key have three kinds of function can selectable:

ALARM: Start up distant urgency alarm

EMCALL: Calling emergency channel

OFF: Turn off this keys function

In standby state, press key + number key , the screen display

Press key enter, press or key select one function of ALARM/EMCALL/OFF, press key confirm, press key back to standby state.

1. Selected ALARM distant urgency alarm function, In standby state, press top key the speaker will sound alarm and the lamp flicker at the same time, press the top key again exit..
2. Selected emergency calling function, in standby state, press the top key change the emergency channel, press **PTT** key the transceiver will communicate on emergency channel. If turn the emergency channel on within 3 second not press **PTT** key, the speaker will sound "DU" prompt every other 3 second. Press top key again exit.

NOTE

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

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Selecting standby display color (WT-LED) ---- MENU 29

The transceiver have three colors can be selectable:

BLUE: Blue back light **ORANGE:** Orange back light **PURPLE:** Purple back light

In standby state, press key + number key the screen will display

Press key enter, press or key select one color of BLUE/ORANGE/PURPLE, press key confirm, press key back to standby state.

Selecting receive display color (RX-LED) ---- MENU 30

The transceiver have three colors can be selectable:

BLUE: Blue back light **ORANGE:** Orange back light **PURPLE:** Purple back light

In standby state, press key + number key the screen will display

Press key enter, press or key select one color of BLUE/ORANGE/PURPLE, press key confirm, press key back to standby state.

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Function operate

Selecting transmit display color (TX-LED) ---- MENU 31






The transceiver have three colors can be selectable:

BLUE: Blue back light

ORANGE: Orange back light



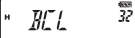
PURPLE: Purple back light






In standby state, press  key + number key   the screen will display 

Press  key enter, press  or  key select one color of BLUE/ORANGE/PURPLE, press  key confirm, press  key back to standby state.

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

Turn on this function is prevent other communicate program disturb, if the selected channel are using with others, this time press **PTT** key, the transceiver will sound alarm prompt, release **PTT** key, the alarm prompt disappear and back to receive mode.


On frequency mode, press  key + number key   the screen will display 

Press  key enter, press  or  key selected ON turn on or OFF turn off, press  key confirm, press  key back to standby state.

32



Setting keyboard lock (AUTOLK) ---- MENU33

The transceiver keyboard lock have auto lock and manual lock two kinds.






AUTOLK: Turn on auto lock and setting it, the keyboard within 15 second not any operate will auto lock, free lock press  key over 2 second.

OFF: Turn off auto lock.

NOTE

» Manual lock, in standby state, press  key over 2 second will lock keyboard, free lock press  key over 2 second.

In standby state, press  key + number key   the screen will display 

Press  key enter, press  or  key select AUTO auto lock or OFF turn off auto lock, press  key confirm, press  key back to standby state.

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Function operate

Channel name edit (CHNAME) ---- MENU 34



Channel name edit

1. Channel name can make up of (A to Z) 26 letters, (0 to 9) 10 numbers or (?) (+) (-) one of the three symbol.
2. The channel name length max 6 bits, or can edit one of bit from 1 to 6.
3. When select (-) symbol that mean the bit is blank.


Edit method

1. Through KG-669 program software edit.
2. Edit by keyboard directly.










When edit channel name

1. The transceiver have stored a channel at least.
2. The transceiver work on channel mode.
3. Enter the channel name edit, then press  key select character, press  key select edit position.










Edit step

1. If the transceiver work on frequency mode, set the work mode as NAME display then press  key power on again, If the transceiver work on CH mode, through MENU 23 set the display mode to

34 NAME.

2. Select desire edit channel, press  +  +  +  key then the screen display 6 rails, press  key select the character then press  key, press  key again select the second character, when selected the sixth character then press  key confirm, press  key exit. The screen will display the channel name and show the order of this channel on top right corner.










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

On frequency mode, press  key + number key   the screen will display . Press  key enter, press  or  key selected ON turn on or OFF turn off, press  key confirm, press  key back to standby state.

NOTE

» The transceiver use microprocessor to control each function, so sometimes CPU clock surge may make the receive frequency disturb, on this case can turn on the function of beat frequency shift.

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


In standby state, press  key + number key   the screen will display . Press  key enter, press  or  key selected ON turn on or OFF turn off, press  key confirm, press  key back to standby state.

Function operate

Using the stopwatch timer:

When the stopwatch setting on turn on state, press  key one time, the stopwatch start account press any key stop account, account again press  key.





NOTE


» When the stopwatch stop press any key (except  key) exit the stopwatch function.

Memory channel (MEM-CH) ---- MENU 37

When the transceiver work on frequency mode and standby state, input the frequency and each parameter of you need store.




























Press  key + number key   the screen will display 

Press  key enter, press  or  key selected the channel order, press  key store, voice prompt received store.

Press  key exit, this time the channel is the same with frequency channel, if need store different frequency's channel repeat above operate, store confirmed voice prompt transmit store.

Eg: The receive frequency is 450.025MHz, and the transmit frequency is 460.025MHZ store on CH-20 channel , operate the following:

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1. When the transceiver work on frequency mode, input       ,  + 
 +  key, then press   or  key select CH-20, press  key confirm, voice prompt received store, press  key;
2. Then input       +  +   +  +  key voice prompt transmit store +  key.
3. The different frequency store complete.

NOTE

» The transceiver except use manual store, also can use MENU function (34) computer program set each channe's parameter.

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

In standby state, press  key + number key   the screen will display 

Press  key enter, press  or  key select the channel order will delete, press  key confirm, the selected channel and message have deleted, press  key back to standby state.

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Function operate

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

The transceiver shift direction is that:

1. The receive frequency higher than receive frequency is positive offset.(+)
2. The receive frequency less than receive frequency is negative offset. (-)
3. Turn off frequency direction.

In standby state, press key + number key the screen will display . Press key enter, press or key select one kind of +/- /OFF, press key confirm, press key back to standby state.

Offset frequency (OFF-SET) ---- MENU 40

Offset frequency is the transmit frequency and receive frequency dispersion. The transceiver offset frequency range from 0 to 69.985MHz.

In standby state, press key + number key the screen will display . Press key enter, press or key select the offset frequency. Press key confirm, press key back to standby state.

The frequency shift direction and offset frequency only when the transceiver work on frequency mode, for make the receive and transmit work different frequency.

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Using step:

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

Eg: On frequency mode, the transceiver will work on the receive frequency 450.025MHz, transmit frequency must set 460.025MHz.

On frequency mode, order input key, press + + + key select the positive offset (+); press + key, then press + + + + or key select 10.000+ + key, the frequency shift direction and offset frequency setting complete.

The screen will display

When press PTT key transmitting the screen will display

Release PTT key the screen will display

This time the transceiver receiving frequency is

Transmitting frequency is

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Function operate




Setting reset ---- MENU 41





The transceiver have menu setting reset (VFO) and all message reset (ALL) function.


Operated the menu setting reset (VFO) all function parameter of setting will come back the factory set.

Operated all message reset (ALL), all transceivers function parameter with all channel parameter all will come back the factory set.

1. MENU reset (VFO):

In standby state, press  key + number key   the screen will display " RESET 41 "




Press  key enter, press  or  key select VFO, press  key the screen will display





Press  key again, the screen will display " WAIT 41 "

Reset well, the transceiver will auto power off and afresh power on .



2. All message reset (ALL):

In standby state, press  key + number key   the screen will display " RESET 41 "

Press  key enter, press  or  key select ALL, press  key the screen will display

Reset well, the transceiver will auto power off and afresh power on .





Function operate

Setting talk around function

When using Talk Around frequency function, the transceivers transmit and receive frequency will interchange and the setting of CTCSS and D.C.S encode and decode all will interchange.

■ Operating talk around function:

In standby state, press  key turn on talk around function, press  key again turn off talk around function.

Low battery voice prompt

When the battery lower, the transceiver will sound "low battery" voice prompt.

Join working on repeater

Most repeater work on different frequency mode, the receive frequency and transmit frequency exist a standard and nonstandard offset frequency, the repeater transmit may need the matching data and CTCSS or DTMF signal.



















Join working on repeater, need different parameter of receive and transmit. At this time, the transceiver must set different parameter and store on appoint channel. When communicating use order the channel establish communication.

Eg. The repeater's transmit frequency is 450.025MHz, CTCSS value is 67Hz, the receive frequency is 460.025MHz, CTCSS value is 254.1Hz.

Function operate




When the transceiver join working on repeater, the setting step are following:

1. Setting receive frequency, CTCSS value and store on appoint channel, eg.channel 20.The transceiver on frequency mode, setting receive frequency is 460.025MHz , CTCSS value is 254.1Hz,and store on channel 20.The operating are following:

On frequency mode, order input  +  +  +  +  +  ,  +  + 
 key, press  or  key select CTCSS value 254.1+  ; +  +  ;  + 
key voice prompt receive store, press  key.

2. Setting receive frequency, CTCSS value, and store on appoint channel 20. The transceiver on frequency mode, setting receive frequency as 450.025MHz, setting CTCSS value as 67Hz and store on channel 20.

On frequency mode, order input  +  +  +  +  +  +  + ,  + 
 +  key, press  or  key select CTCSS value 67+  ; +  +  ;  + 
+  key. Voice prompt transmit store, press  key.

3. Press  key, turn on the power at the same time, the transceiver work on channel mode at this time, press  or  key select channel 20, the transceiver can join on repeater establish communication at this time.

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Function operate

 Professional FM Transceiver



Using intelligent charger

1. When the power adapter have connect the intelligent charger, the power adapter plug in electrical matching voltage of the city electrical network, the intelligent charger flicker orange lamp and emit one sound "Di"
2. When the battery plug in the red lamp persist light and emit one sound "Di", express charging.
3. When the light turn green and sound 10 times "DI" in progression, express the battery have charge full.
4. When plug in the battery, the red light still flicker, and each period time, still "DI" "DI" two voice sound, express the battery and intelligent charger not touch well. Please plug in the battery again.

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Trouble obviate

Pre-confirm the transceiver have trouble, please according following chart check over, if still have trouble appear, can reset the transceiver, sometimes can correct the wrong operate.

Problem	Probable Cause	Solve Method
Can not power on	<ol style="list-style-type: none"> 1. The battery not install well. 2. The battery capability have exhaust. 3. The battery have aging. 	<ol style="list-style-type: none"> 1. Reinstall the battery. 2. Charge the battery. 3. Change the battery.
The receive light persist bright and the speaker no sound.	<ol style="list-style-type: none"> 1. The power switch not adjust well. 2. Confirm your CTCSS or D.C.S tone is the same with others. 3. Confirm the mute mode of you use if right. 	<ol style="list-style-type: none"> 1. Return the power switch. 2. Reset the CTCSS or D.C.S tone. 3. Reset the mute mode.
On radio state no sound	<ol style="list-style-type: none"> 1. The parenthesis antenna if install right. 2. The local radio signal is too feebleness. 	<ol style="list-style-type: none"> 1. Install the parenthesis antenna. 2. Move the radio to strong signal place or press  key replacement, repress  key turn channel.

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Trouble obviate

 **WOUXUN**
Professional FM Transceiver

Problem	Probable Cause	Solve Method
The keyboard no feedback and the PTT key no action.	<ol style="list-style-type: none"> 1. The keyboard if set locked. 2. The radio if turn on, the screen display "RADIO". 	<ol style="list-style-type: none"> 1. The keyboard lock free. 2. Please exit radio state.
The receive light persist bright, can not transmit.	If set busy channel lockout function.	Turn off busy channel lockout function.
Some function setting can not store.	On channel mode or frequency+channel mode can't be setting.	Set on frequency mode.
Auto transmit when standby state.	The VOX level too low.	Turn off VOX function or VOX function setting higher level.
When communicating receive other group sound or disturb signal.	The same frequency and CTCSS or D.C.S tone of other group the same with ours.	Change the transceiver CTCSS or D.C.S tone or frequency of our group's.

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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

Technology parameter



Appendix 2

D. C. S									
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

Technology parameter

D. C. S									
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

WOUXUN
Professional FM Transceiver

Frequency range	VHF: 136-174MHz
	UHF: 350-390 MHz
	UHF: 400-470.975 MHz
Memory channels	128 channels +1 channel of emergency calling
Working voltage	7.4V
Working temperature	-30°C ~60°C
Working manner	Same frequency simplex operation or different frequency simplex operation
Power output	5 Watts
Mode	F3E(FM)
Maximum frequency deviation	≤ ±5KHz
Reband radiation	< -60dB
Frequency stabilization	±5 ppm
Receive sensitivity	< 0.2 μV
Sound frequency power	≥ 500mW
Weight	250g
Size	58 X 105 X 38 (mm)

NOTE

» Specifications are subject to change without notice due to advancements of the technology.