Thanks for buying the **wouxun** *KG-679E 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.

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, pleased 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 harmfu l 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 ⊘wouxun 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.

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, **WOUXUN** 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

Contents

WOUXUN
Professional FM Transceiver

Contents

Contents

Unpacking and checking of your equipment

wouxun
Professional FM Transceiver

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 batterypack | Intelligent charger | Adapter |

| Beltclip | Handstrap | User's manual | Service card |

Description of functions

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
4. DTMF encoding and decoding
5. Inspection, monitor, alarm, stun, kill and revive.
6. 8 groups rolling voice encrypt.
7. FM radio with frequency display
8. ANI (caller ID)
9. VOX
10. All calls, group calls and selective calls function
11. Calling ring function
12. 105 groups DCS/50 groups CTCSS
13. Voiceguide (English/Chinese)
14. Wide/Narrow bandwidth selection (25KHz/12.5KHz)
15. Three color backlight displays
16. Channel order, channel frequency, channel name multi-display method

17. Reverse frequency function
18. Distant urgency alarm function
19. Multi scan function
20. Channel steps (5/6.25/10/12.5/25KHz)
21. High/Low power changeable when on transmitting.
22. Intelligentcharger (Warning sound and dualcolor light)
23. TX/RX splitselection (0-69.950MHz)
24. Set frequencyshift direction
25. Busy channel lockout
26. Multi display modes when power on (full screen / Batt-V / others)
27. Lowvoltage batterypack voiceprompt
28. Transmit overtime prompt
29. Keyboard lock (auto / manual)
30. Adding channelscan function
31. Programmable by computer
32. Menu / Channel reset
33. Wireclone function

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.

Reverse frequency

Split
Split
DCS
DTMF encoding and decoding
CTCSS
High power transmit
Low power transmit
Enter menu function set state
Busychannel light

VOX transmission
Bandwidth indicator
Scrambler state
Batterypack status indicator
Menu order / Channel order
Channel have stored sign
Keypadlock

CT T DCS + - R PRI VOX N 🔒 🔋
H 88.8.8.8.8. 75 188
L 5 25 ★ ▲
F BUSY ━━━━━━━━ 🔑
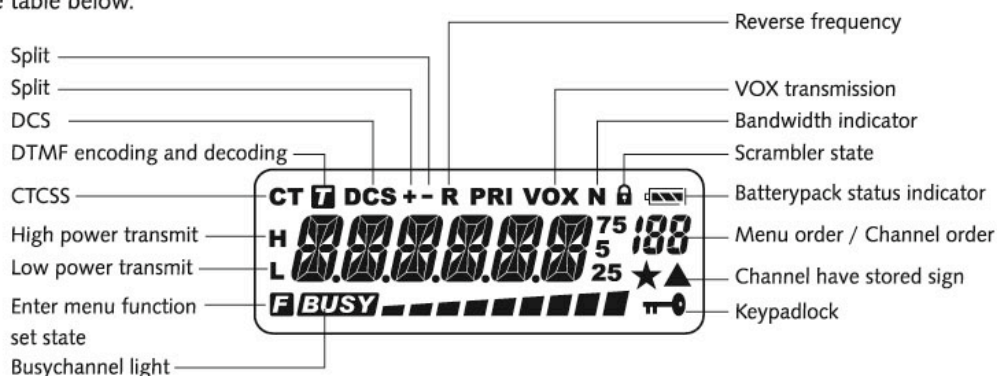
Note:

🔋 Batterypack capacity indicator (full)

🔋 🔋 Batterypack capacity spare indicator

🔋 Batterypack capacity is exhausted

━━━━━━━━ Receive signal meter

Description of transceiver

Topkey: Distant urgency alarm

Antenna

Receive light

Powerswitch / Volumecontrol

Transmit light

Screen / LCD display

Functionkey

Numberkey

Up / Downkey

Exitkey

Reverse frequency / Scankey

Lockkey

PTT (Push-To-Talk) key

Sidekey 1: radio/scan

Sidekey 2: monitor

Speaker / Microphonejacks

Batterylatches
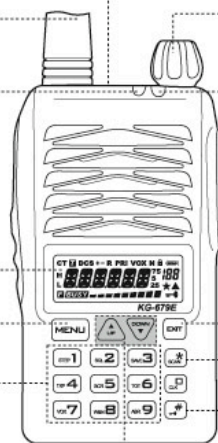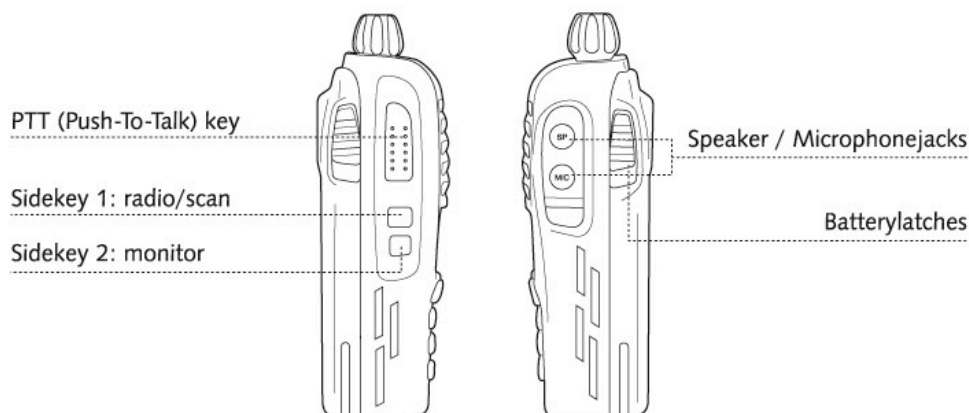
■ **Speed search**

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

■ **DTMF encoding**

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

MENU   UP   DOWN   EXIT
A   B   C   D

■ **Switch working mode**

MENU + POWER ON

Channel mode ←——————————————→ Frequency mode

Shortcut operation sheet

Function order	Function name	Enter function set	Screen display	Select parameter	Selectable parameter-explanation	Confirm	Back	See page
0	NO definition							
1	Setting channl step	MENU → STEP 1	" STEP ¹	MENU →	Press △ or ▽ key Select step	5 kinds of channel step 5K/6.25K/10K/12.5K/25K	MENU →	EXIT	P14
2	Setting squelch level	MENU → SQL 2	"SQL -LE ²	MENU →	Press △ or ▽ key Select step	Squelchlevel from 0-9	MENU →	EXIT	P15
3	Setting batterypack savemode	MENU → SAVE 3	" SAVE ³	MENU →	Press △ or ▽ key Select step	ON: Turn on save function OFF: Turn off save function	MENU →	EXIT	P15
4	Selecting transmit power	MENU → TXP 4	" TXP ⁴	MENU →	Press △ or ▽ key Select step	6-10: High power (5W). 1-5: Low power (1W)	MENU →	EXIT	P16
5	8 groups rolling voice encrypt	MENU → SCR 5	" SCR ⁵	MENU →	Press △ or ▽ key Select step	1-8: 8 groups scrambler. OFF: Turn off scrambler.	MENU →	EXIT	P16 -17
6	Transmit over timer	MENU → TOT 6	" TOT ⁶	MENU →	Press △ or ▽ key Select step	TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT.	MENU →	EXIT	P17
7	Setting VOX	MENU → VOX 7	" VOX ⁷	MENU →	Press △ or ▽ key Select step	VOX has levels from 1 to 10. OFF: Turn off VOX.	MENU →	EXIT	P17 -18
8	Setting bandwidth	MENU → WBN 8	" WN ⁸	MENU →	Press △ or ▽ key Select step	WIDE: 25KHz. NARROW: 12.5KHz.	MENU →	EXIT	P18

9	Setting auto back light	MENU → ABR 9	" ABR ⁹	MENU →	Press △ or ▽ key Select step	Auto backlight has 5 levels in steps of 1 second. OFF: Turn off auto back light	MENU →	EXIT	P18
10	Setting receive DCS	MENU → STEP 1 → CLK 0	" R-DCS ¹⁰	MENU →	Press △ or ▽ key Select step	105 groups DCS (D023N-D754I) OFF: Turn off DCS	MENU →	EXIT	P19
11	Setting receive CTCSS	MENU → STEP 1 → STEP 1	"R-CTCS ¹¹	MENU →	Press △ or ▽ key Select step	50 groups CTCSS (67 -254.1Hz) OFF: Turn off CTCSS	MENU →	EXIT	P20
12	Setting transmit DCS	MENU → STEP 1 → SQL 2	" T-DCS ¹²	MENU →	Press △ or ▽ key Select step	105 groups DCS (D023N-D754I) OFF: Turn off DCS	MENU →	EXIT	P20
13	Setting transmit CTCSS	MENU → STEP 1 → SAVE 3	"T-CTCS ¹³	MENU →	Press △ or ▽ key Select step	50 groups CTCSS (67 -254.1Hz) OFF: Turn off CTCSS	MENU →	EXIT	P21
14	Setting voiceguide	MENU → STEP 1 → TXP 4	" VOICE ¹⁴	MENU →	Press △ or ▽ key Select step	CHINES: Chinese ENGLSH: English OFF: Turn off voiceguide	MENU →	EXIT	P21
15	Setting beepprompt	MENU → STEP 1 → SCR 5	" BEEP ¹⁵	MENU →	Press △ or ▽ key Select step	ON: Turn on beepprompt OFF: Turn off beepprompt	MENU →	EXIT	P22
16	Setting ANI ID CODE switch	MENU → STEP 1 → TOT 6	" ANI-SW ¹⁶	MENU →	Press △ or ▽ key Select step	ON: Turn on ANI ID CODE OFF: Turn off all	MENU →	EXIT	P22
17	Setting ANI ID CODE edit	MENU → STEP 1 → VOX 7	" ANI-ID ¹⁷	MENU →	Press △ or ▽ key Select step	The range of ANI ID CODE can selectable from 100-99999.	MENU →	EXIT	P23

18 Setting ring time	MENU → STEP 1 → W&N 8 → " RING 18 → MENU	Press △ or ▽ key Select step	10 levels, 1second different. OFF: turn off the ring time prompt	MENU → EXIT	P23
19 Setting DTMF side tone	MENU → STEP 1 → A&R 9 → " DTMFST 19 → MENU	Press △ or ▽ key Select step	DT-ST: Turn on side key when transmitting. ANI-ST: Turn on ANI side tone when transmitting. DT+ANI: Turn on side key and ANI side tone when transmitting. OFF: Tuen off all.	MENU → EXIT	P24
20 Setting scanmode	MENU → SQL 2 → CLK P → " SC-REU 20 → MENU	Press △ or ▽ key Select step	TO: Scan with time. CO: Scan with carrier wave 1. SE: Scan with carrier wave 2.	MENU → EXIT	P25
21 Setting DTMF option signal.	MENU → SQL 2 → STEP 1 → " OPTSIG 21 → MENU	Press △ or ▽ key Select step	DTMF: Turn on DTMF option signal. OFF: Turn off DTMF option signal.	MENU → EXIT	P26
22 Setting signal information code	MENU → SQL 2 → SQL 2 → " S-CODE 22 → MENU	Press △ or ▽ key Select step	15 groups signal information	MENU → EXIT	P32
23 Setting mutemode	MENU → SQL 2 → SAVE 3 → " SMPUTE 23 → MENU	Press △ or ▽ key Select step	3 kindes of mutemode QT/AND/OR	MENU → EXIT	P33
24 Setting PTT transmit	MENU → SQL 2 → TXP 4 → " PTT-ID 24 → MENU	Press △ or ▽ key Select step	BOT: ID code was transmitted when press PTT key. EOT: ID code was transmitted when release PTT key. BOTH: ID code was transmitted when press or release PTT key. OFF: Turn off all	MENU → EXIT	P33 -34

10

25 Setting information code plus delay transmit	MENU → SQL 2 → SCR 5 → " PTT-LT 25 → MENU	Press △ or ▽ key Select step	Permit transmit ANI delay tiem from 1-30. unit: 100 ms 0: Turn off ANI delay transmit.	MENU → EXIT	P34
26 NO definition					
27 Setting working mode	MENU → SQL 2 → VOX 7 → " CH-MDF 27 → MENU	Press △ or ▽ key Select step	3 kinds of working mode: CH: channel order FREQ:frequency+ channel order NAME: channel name + channel order	MENU → EXIT	P35
28 NO definition					
29 Side key 1 editable (PF1)	MENU → SQL 2 → A&R 9 → " PF1 29 → MENU	Press △ or ▽ key Select step	RADIO: radio function key SCAN: scan function key OFF: Turn off all	MENU → EXIT	P35 -36
30 Setting distant urgency alarm	MENU → SAVE 3 → CLK P → " PF2 30 → MENU	Press △ or ▽ key Select step	ALARM: Distant urgency alarm OFF: Turn off this function	MENU → EXIT	P37
31 Setting busy channel lockout	MENU → SAVE 3 → STEP 1 → " BEL 31 → MENU	Press △ or ▽ key Select step	ON: Turn on busy channel lockout. OFF: Turn off busy channel lockout.	MENU → EXIT	P37
32 NO definition					
33 Setting keyboard lock	MENU → SAVE 3 → SAVE 3 → " AUTOLK 33 → MENU	Press △ or ▽ key Select step	ON: Turn on autolock OFF: Turn off autolock	MENU → EXIT	P38

11

Shortcut operation sheet

No.	Function	Steps									Page

34 Setting standy display-color
MENU → SAVE 3 → TDP 4 → "WT-LED" 34 → MENU → Press △ or ▽ key Select step → BLUE: Blue backlight / ORANGE: Orange backlight / PURPLE: Purple backlight / OFF: Turn off backlight → MENU → EXIT P39

35 Setting receive display-color
MENU → SAVE 3 → SCR 5 → "RX-LED" 35 → MENU → Press △ or ▽ key Select step → BLUE: Blue backlight / ORANGE: Orange backlight / PURPLE: Purple backlight / OFF: Turn off backlight → MENU → EXIT P39

36 Setting transmit display-color
MENU → SAVE 3 → TOT 6 → "TX-LED" 36 → MENU → Press △ or ▽ key Select step → BLUE: Blue backlight / ORANGE: Orange backlight / PURPLE: Purple backlight / OFF: Turn off backlight → MENU → EXIT P40

37 Setting memory-channel
MENU → SAVE 3 → VOX 7 → "MEM-CH" 37 → MENU → Press △ or ▽ key Select step → 128 channels → MENU → EXIT P40-41

38 Delete channel
MENU → SAVE 3 → WBN 8 → "DEL-CH" 38 → MENU → Press △ or ▽ key Select step → 128 channels → MENU → EXIT P42

39 Frequency-shift direction
MENU → SAVE 3 → AIR 9 → "SFT-D" 39 → MENU → Press △ or ▽ key Select step → +: Positive offset. / -: Negative offset. / OFF: Turn off frequencyshift direction → MENU → EXIT P42

40 Offset frequency
MENU → TDP 4 → CLK 0 → "OFFSET" 40 → MENU → Press △ or ▽ key Select step → From 0 to 69.950MHz can be selectable → MENU → EXIT P43-44

41 Setting reset
MENU → TDP 4 → STEP 1 → "RESET" 41 → MENU → Press △ or ▽ key Select step → VFO: Menu reset / ALL: All message reset → MENU → EXIT P44-45

Owouxun
Professional FM Transceiver

- Speed search △ UP / ▽ DOWN (See page 7)

- High/Low power changeable when on transmitting (See page 16)

- All calls, group calls and selective calls (See page 26)

- Setting reverse frequency function (See page 45)

- Setting transmit overtime prompt (See page 46)

- Lowvoltage batterypack voiceprompt (See page 45)

- Adding channelscan (See page 46)

- Wireclone function(See page 46)

- Programming repeater function (See page 47-48)

Lock menu function

If you don't need operate menu functions frequently, you can turn off by KG-679E programming software.

The steps as following:

1. Set password of switching between channelmode and frequencymode.

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 [MENU] + [STEP 1] , till the screen display " *STEP* "

Press [MENU] enter, press [UP] / [DOWN] to select the channel step you desired.

Press [MENU] to confirm, then press [EXIT] to return to standby.

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

14

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 loose 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 [MENU] + number [SQL 2] and the screen will display "*SQL-LE* ?"

Press [MENU] enter, press [UP] / [DOWN] to select the desired level .

Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting batterypack savemode (SAVE)--- MENU3

In order to reduce current consuming, this function will be turned off circuit for a minute, then it will turn on again to check signals.

In standby, press [MENU] + number [SAVE 3] and the screen will display " *SAVE* 3"

Press [MENU] enter, press [UP] / [DOWN] select ON turn on this function or OFF turn off this function.

Press [MENU] to confirm, then press [EXIT] to return to standby.

15

Selecting transmitpower (TXP) --- MENU4

In frequencymode, press [MENU] + number [TOP 4] and the screen will display [" TxP ⁴]
Press [MENU] enter, press [UP] / [DOWN] and select HIGH or LOW power level.
Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

>> This transceiver has 5W and 1W selectable.
>> High/Low power can be changed during transmit. Press PTT key and topkey at the same time, this will change High/Low power.

8 groups rolling voice scrambler (SCR) --- MENU 5

SCR: Use the scrambler, it can encrypt the communication and make the transceiver who do not use the scrambler can't hear clear what you are talking, meanwhile you also can't hear clear others, who do not use the scrambler, what they are talking.

In standby, press [MENU] + number [SCR 5] and the screen will display [" SCR ⁵]
Press [MENU] enter, press [UP] / [DOWN] and select OFF to switch off this function or 1of 8 different scramblers.
Press [MENU] to confirm, then press [EXIT] to return to standby.

16

NOTE ⚠

>> 8 groups scrambler sclectable.
>> To ensure effective communications the radio's must be set to the same voice encrypt.

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, between 15 and 600 seconds.

In standby, press [MENU] + [TOT 6] and the screen will display [" TOT ⁶]
Press [MENU] enter, press [UP] / [DOWN] to select the level you need when on transmitting.
Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting VOX (VOX) ---- MENU 7

In standby, press [MENU] + number [VOX 7] and the screen will display [" VOX ⁷]
Press [MENU] enter, press [UP] / [DOWN] to select VOX OFF or to switch on the 1 to 10 different sensitivity-levels. Press [MENU] to confirm, then press [EXIT] to return to standby.

17

How to operate

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

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

Press [MENU] enter, press [▲ UP] / [DOWN ▼] and you can select WIDE or NARROW bandwidth.

Press [MENU] to confirm, then press [EXIT] to return to standby.

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

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

Press [MENU] enter, press [▲ UP] / [DOWN ▼] key and select 1 to 5 to turn on auto backlight or OFFwhen you want to switch OFF backlight. Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting receive DCS (R-DCS) ---- MENU 10

Sometimes may be you only want to hear the calling which comes from the specific individual or group, then you can ignore some (can not hear from others who using the same frequency) calling through CTCSS/DCS.Only when receive the same signal of CTCSS/DCS,the radio will release the mutemode.

In frequencymode, press [MENU] + number [STEP 1] [CLK] and the screen will display [" R-DCS 10"]

Press [MENU] enter, press [▲ UP] / [DOWN ▼] and select OFF to switch off DCS or one of the steps from D023N to D754I.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Setting receive CTCSS (R-CTCSS) ---- MENU 11

In frequencymode, press [MENU] + number [STEP 1][STEP 1] and the screen will display $\boxed{\cdot R\text{-}CTCS\ \ 11}$

Press [MENU] enter, press [▲ UP] / [▼ DOWN] and select OFF to switch off CTCSS or use one of the tones between 67.0Hz and 254.1Hz.

Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

>> This transceiver has 50 groups different CTCSS tones, see appendix (1) CTCSS frequency sheet.
>> Meanwhile, you can edit CTCSS tones arbitrary via keyboard in the range of 60.0Hz-259.9Hz.

Setting transmit DCS (T-DCS) ---- MENU 12

In standby, press [MENU] + number [STEP 1][SQL 2] and the screen will display $\boxed{\cdot\ T\text{-}DCS\ \ 12}$

Press [MENU] enter, press [▲ UP] / [▼ DOWN] and select OFF to switch off DCS or one of the steps from D023N to D754I.

Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

>> This transceiver has 105 groups different DCS codes, see appendix (2) DCS frequency sheet. And DxxxN means positive code, DxxxI means negative code. The range of positive code is between D023N and D754N, negative code is between D023I and D754I.

Setting transmit CTCSS (T-CTCSS) ---- MENU 13

In standby, press [MENU] + number [STEP 1][SAVE 3] and the screen will display $\boxed{\cdot T\text{-}CTCS\ \ 13}$

Press [MENU] enter, press [▲ UP] / [▼ DOWN] and select OFF to switch off CTCSS or use one of the tones between 67.0Hz and 254.1Hz. Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

>> This transceiver has 50 groups different CTCSS codes, see appendix (1) CTCSS frequency shift.
   Meanwhile, you can edit arbitrary via keyboard in the range of 60.0Hz-259.9Hz.

Setting voiceguide (VOICE) ---- MENU 14

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

In standby, press [MENU] + number [STEP 1][VFO 4] and the screen will display $\boxed{\cdot VOICE\ \ 14}$

Press [MENU] enter, press [▲ UP] / [▼ DOWN] key to select Chinese, English or OFF to switch off the voiceguide.

Press [MENU] to confirm, then press [EXIT] to return to standby.

NOTE ⚠

>> If want turn off all keypad voiceguide should turn off MENU15 and MENU14 at the same time.

Setting beepprompt function (BEEP) ---- MENU 15

Beepprompt 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 [STEP1] [SCR5] and the screen will display | ·BEEP 15 |

Press [MENU] enter, press [UP] / [DOWN] to switch on the beep or OFF when you want to switch off the beep.

Press [MENU] to confirm, then press [EXIT] to return to standby.

> **NOTE** ⚠
>
> » When MENU 14 is switched on, the voice guide gets priority.

Setting ANI ID CODE switch (ANI-SW) ---- MENU 16

In standby, press [MENU] + number [STEP1] [TOT6] and the screen will display | ·ANI-SW 16 |

Press [MENU] enter, press [UP] / [DOWN] key and select ON to switch on ANI or OFF to switch off ANI.

Press [MENU] and confirm, then press [EXIT] to return to standby.

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

> **NOTE** ⚠
>
> » This function only can be edited via KG-679E programming software.
>
> » ID CODE is selectable in a range of 100-99999.
>
> » This transceiver has different of 3 bits, 4bits and 5 bits, so the length of ANI CODE must keep the same bits as which used in group.

Setting ring time (RING) ---- MENU 18

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

In standby, press [MENU] + number [STEP1] [VAN8] and the screen will display | ·RING 18 |

Press [MENU] enter, press [UP] / [DOWN] key and select the time of the ring between 1 and 10 or OFF to switch off the ring time.

Press [MENU] and confirm, then press [EXIT] to return to standby.

> **NOTE** ⚠
>
> » This transceiver has 10 different steps of ringtime of which every step is 1 second difference.

Setting DTMF sidetone (DTMFST) ---- MENU 19

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

The transceiver has 4 different options.

DT-ST: Switch on the key-press sidetone when transmitting.

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

DT+ANI: key-press and ANI sidetone are both on.

OFF: Turn off all.

In standby, press `[MENU]` + number `[STEP 1]` `[ABR 9]` and the screen will display `·DTMFST 19`

Press `[MENU]` enter, press `[▲ UP]` / `[DOWN ▼]` key to select one function of the DT-ST/ANI-ST/DT+ANI/OFF.

Press `[MENU]` to confirm, then press `[EXIT]` to return to standby.

Setting scanmode (SC-REV) ---- MENU 20

This transceiver has three kinds of scanmodes selectable.

TO: After signal in channel disappeared, 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 disappeared after 3 seconds .

SE: Scanning stops when signal is received.

In standby, press `[MENU]` + number `[SQL 2]` `[CLR ☐]` and the screen will display `·SC-REV 20`

Press `[MENU]` enter, press `[▲ UP]` / `[DOWN ▼]` key to select one function of TO, CO or SE.

Press `[MENU]` to confirm, then press `[EXIT]` to return to standby.

NOTE ⚠

≫ Press the `[SCAN *]` 2 seconds, then it can go into the scanmode.

Setting DTMF signal (OPTSIG) ---- MENU 21

In frequencymode, press [MENU] + number [SQL2] [STEP1] and the screen will display `·OPTSIG 21`

Press [MENU] enter, press [△UP] / [DOWN▽] key to select ON turn on DTMF signal or OFF to switch off this function.

Press [MENU] to confirm, then press [EXIT] to return to standby.

■ All calls, group calls and selective calls

The transceiver offers transmit ANI ID CODE, edit ANI ID CODE and DTMF decoding functions, without by other tool user can achieve all calls, group calls and selective calls.

How to use all calls, group calls and selective calls

Automatic dialing

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

ANI ID CODE: ANI-XXX   ANI-XXXX   ANI-XXXXX (Total has three kinds of editting methods.)

XXX: means can program 3 bits ANI ID CODE

XXXX: means can program 4 bits ANI ID CODE

XXXXX: means can program 5 bits ANI ID CODE

ID	X	XX
Personal ANI ID CODE sign	Grouplist	A unique ANI ID CODE
	1 to 9 groups and 9 groups maximum.	From 0 to 99 and 100 groups maximum.
	This is how to build up ANI .	

ID	X	XXX
Personal ANI ID CODE sign	Group list	A unique ANI ID CODE
	From 1 to 9 group and 9 groups maximum	From 0 to 999 and 1000 groups maximum
	This is how to build up ANI ID CODE	

ID	X	XXXX
Personal ANI ID CODE sign	Group list	A unique ANI ID CODE
	From 1 to 9 group and 9 groups maximum	From 0 to 9999 and 10000 groups maximum
	This is how to build up ANI ID CODE	

NOTE ⚠

>> This function only can be edited via the DTMF encoding and decoding parmeter of transceiver's ID code of KG-679E programming software.

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

   The details of setting DTMF option signal see MENU (21) Setting DTMF option signal (OPTSIG).

3. The mutemode must be set as AND. The details of setting method:See to MENU(23)Setting Mutemode(SPMUTE)

4. Press PTT transmit:To select the way of transmit DTMF code. One of the BOT/EOT/BOTH can be selected.(Automatic dialing)

5. Signal information code(S-CODE): To select the NO. of DTMF code. There are 1-15 kinds can be selected. (Automatic dialing)

6. Setting ringtime(Set when needed): The details see to the MENU(18).

7. Setting PTT-LT: According to the actual situation, the signal can delay before transmitted, the details see to the MENU (25).

8. Setting ANI ID CODE switch(ANI-SW): This function means whether to display others' ANI ID CODE (Set when needed).

---

9. Setting DTMF sidetone(DTMF-ST): This means can monitor the DTMF tone(Set when needed), the details see to the MENU(19).

NOTE ⚠

>> Every transceiver using in the group must set the same frequency, channel and parameter.

>> This transceiver has difference of 3, 4, 5 bits,so all the ANI ID CODE in the group have better set the same bit. When the bit of transceiver is lower than receiver's, you can use the 🔘 to make up, then you can go on all calls, group calls or selective calls.

For examples (5 bits of ANI ID CODE):

The following chart is the transmitter's ANI ID code.

The following chart is the receiver's ANI ID code.

┌─ ANI Code ─────────┐
│   │
│   ┌──────────┐   │
│   │ 13145   │   │
│   └──────────┘   │
│   │
│ ☐ Press PTT to Send   │
│ ☑ Release PTT to Send │
└────────────────────┘

┌─ ANI Code ─────────┐
│   │
│   ┌──────────┐   │
│   │ 95123   │   │
│   └──────────┘   │
│   │
│ ☐ Press PTT to Send   │
│ ☑ Release PTT to Send │
└────────────────────┘

How to operate

Manually dialing:

1. Setting ANI code

2. Every transceiver in group must be set DTMF option signal. The details see to the Menu(21) Setting option signal (OPTSIG).

3. Mutemode must be set as AND. The details see to Menu (23) Setting mutemode(SPMUTE).

4. Setting ringtime (set when needed).The details see to the Menu(18).

5. Setting PTT-LT: According to the actual situation, the signal can be delayed before transmitted, the details see to the MENU (25).

6. Setting ANI ID CODE switch(ANI-SW):This function means whether to display other's ANI ID code (Set when needed).

7. Setting DTMF sidetone(DTMFST): This means can monitor the DTMF tone (Set when needed), the details see to the Menu(19).

a. How to use the function of all calls:

Press PTT key transmit, input 5 [SCAN*] directly from the keyboard.

b. How to use the function of group calls:

Press PTT transmit, input group number + 4 [SCAN*] , via the keyboard.

For example(Look at the above chart): Transmitter press the PTT key and meanwhile input the [ABR 9] + 4 [SCAN*] directly from the keyboard.

30

---

c.   How to use the function of selective calls:

Press the PTT key transmit, and input the transceiver's ANI code that you want to call.

For example(Look at the above chart): Transmitter press the PTT key and meanwhile input the 95123 directly from the keyboard.

Inspection, monitor, emergency alarm, stun, kill, revive (Through KG-679E programming software.)

Inspection:

Manager can use this function when he/she want to know whether their staff are on the working; manager send the inspection signal, and the member's transceiver in the group will reply to the manager automatically(what it replied is the ANI ID CODE).

Monitor:

Manager can use this function when he/she want to know what their staff are doing at the moment. When manager transmit the monitor signal, the member's transceiver in the group will transmit automatically, then manager can hear the member's voice.

Emergency alarm:

You can use this function when on duty, and meet some emergency situation; user can transmit the emergency alarm signal which the distant emergency alarm is turned on and can display the transmitter's ANI ID CODE in order to take the corresponding actions.

31

Stun:

Manager can use this function when he/she only want to let their member receive and can't transmit. Manager only need to stun the member's radio and after this over, to activate it through transmit the power on signal when needed.

Kill:

When the radio was lost or other special circumstance happened,in order to let others disable to transmit and receive ,manager can use this function to kill the radio.

Revive:

When the manager transmit the power on signal can activate the radio which is being stuned or killed.

Setting signal information(S-CODE) ---- MENU 22

This function means to appoint the DTMF code of setting DTMF encoding and decoding parameter of programming software.

In frequency mode, press MENU key+number 2 2 and the screen will display ·S-CODE 22 press MENU enter , press UP / DOWN to select from 1-15 kinds, press MENU to confirm, then press EXIT to return to standby.

Setting mutemode (SPMUTE) ---- MENU 23

The mutemode is to turn on/off the speaker audio according to your optional signal setting. This transceiver has three kinds of modes which can be selected.

1. **QT:** When the transceiver receivers a signal and matching CTCSS tone, it will swith on the speaker, When the transceiver has not set a CTCSS tone and a signal is received, you will hear that through the loudspeaker.

2. **AND:** When the transceiver receives a matching QT and DTMF signal, it will switch on the speaker.

3. **OR:** When the transceiver receives a matching QT or AND, it will switch on the speaker.

In frequency mode, Press MENU +number 2 3 and the screen will display ·SMPUTE 23 press MENU enter, press UP / DOWN to select one of QT/AND/OR, press MENU to confirm, press EXIT to return to standby.

Setting PTT transmit (PTT-ID) ---- MENU 24

This function means that the way of selecting to transmit information code or ID code.

① **BOT:** When press the PTT key, then ID code is transmitted.

② **EOT:** When release the PTT key, then ID code is transmitted.

③ **BOTH:** When press or release the PTT key, then ID code is transmitted.

④ **OFF:** ID code can not be transmitted when turn off all.

How to operate

In frequency mode, press `MENU` + numbe `SQ 2` `TW 4` and the screen will display `PTT-ID 24`
Press `MENU` key enter, press `UP` / `DOWN` select one of BOT/EOT/BOTH/OFF.
Press `MENU` to confirm, press `EXIT` to return to standby.

Setting signal information code plus delay transmit (PTT-LT) ---- MENU 25

This function means that to delay the ID code which will be transmitted.

①1-30: Permit transmit ANI delayed time from 1-30. unit: 100ms

②0: Do not delay to transmit ANI ID CODE.

In standby, press `MENU` + number `SQ 2` `SCR 5` and the screen will display `PTT-LT 25`
Press `MENU` enter, press `UP` / `DOWN` to select from 1 to 30 for delay transmit ANI or OFF to switch off ANI
delay transmit. Press `MENU` to confirm, then press `EXIT` to return to standby.

NOTE ⚠️

» When alarming or the frequency has set DTMF signal, if the Menu has not be set as "0", but be set one of
the number between 1 and 30, then the setting delayed time will be delayed to transmit signal code and
alam code or ANI code.
» If the repeater has not respond to the transmitted ID CODE of transceiver, you should adjust the parameter.

34

No definition (UNDEF) ---- MENU 26

Setting working mode (CH-MDF)---MENU 27

This transceiver has three selectable display modes: channelorder display, channelfrequency +
channelorder display, channelname + channelorder display.
In standby, press `MENU` + number `SQ 2` `VOX 7` and the screen will display `CH-MDF 27`
Press `MENU` enter, press `UP` / `DOWN` select CH/FREQ/NAME.
Press `MENU` to confirm, then press `EXIT` to exit.
Channelname display mode: To operate this function you need to edit the channelname first.
Edit method: Program via KG-679E programming software.

No definition (UNDEF) ---- MENU 28

Sidekey 1 editable (PF1)---MNEU 29

This transceiver sidekey 1 has 3 kinds function can be selected:
①. **SCAN**: Scan key
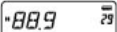②. **RADIO**: Radio key
③. **OFF**: Turn off the key function.
1. Select SCAN function.
   In standby, press sidekey 1 and the transceiver will switch to scanning mode (Scanmode depending
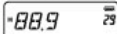
35

on the setting of MENU 20), press any key will stop scanning.

2. Select FM radio function.

In standby, press the sidekey 1 to switch on FM radio, this FM radio is frequency modulation, frequency range is 87-108MHz, and the screen will display `·88.9    29`

a. In radio mode, press [▲] / [▼] or number to select program

b. Press [sq2] , you can check the working frequency and channel, after 5 seconds the screen will resume `·88.9    29` , the radio works in normally when you are on operation.

c. Press PTT, sidekey 2 and topkey, it will go into the relevant operation.

   ≫ When you want to turn off radio, press sidekey 1 again.

   ≫ When you turn on radio, you should install supplied antenna.

In standby, press [MENU] +number [sq2][A/R9] and the screen will display `·RADIO  29`

Press [MENU] enter, press [▲] / [▼] and select one of the SCAN/RADIO/OFF.

press [MENU] to confirm, then press [EXIT] to return to standby.

> **NOTE** ⚠
>
> ≫ When in FM radio, the present frequency or channel are still in standby, if transceiver receives a signal,it will return to radio, After the signal disappeared 5 seconds, it will auto return to FM radio. If you want to exit radio, please press sidekey 1 again.

Setting distant urgency alarm function on topkey (PF2) ---MENU 30

The topkey offers two kinds of function:

① **ALARM**: Startup the distant urgency alarm

② **OFF**: Turn off this key function

In standby, press [MENU] + number [SAVE3][CLK] and the screen will display `·PF2    30`

Press [MENU] enter, press [▲] / [▼] and select ALARM or OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

> **NOTE** ⚠
>
> ≫ When you have selected ALARM, in standby: press topkey and from your speaker,an alarm will sound and the red and green lamp will flicker at the same time. Press topkey again to exit.

Busy channel lockout (BCL) ---- MENU 31

Turn on this function is to prevent interfere others who is on communicating. If the selected channel are using by others, this time press PTT key, the transceiver can not transmit.

In frequencymode, press [MENU] + number [SAVE3][STEP1] and the screen will display `·BEL    31`

Press [MENU] enter, press [▲] / [▼] key to select between ON and OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

No definition (UNDEF) ---- MENU 32

Setting keyboard lock (AUTOLK) ---- MENU33

The transceiver has two options, auto lock and manual lock.

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

OFF: Turn off auto lock.

In standby, press [MENU] + number [SAVE 3] [SAVE 3] and the screen will display "AUTOLK 33"

Press [MENU] enter, press [UP] / [DOWN] and select ON for autolock or OFF to switch off autolock.

Press [MENU] to confirm, then press [EXIT] to return to standby.

> **NOTE** ⚠
>
> ≫ Manual lock: In standby, press [SCAN] for more than 2 seconds will lock keyboard, release keyboard press [SCAN] for more than 2 seconds.

Selecting standby display color (WT-LED) ---- MENU 34

The transceiver has four colors available:

BLUE / ORANGE / PURPLE / OFF

In standby, press [MENU] + number [SAVE 3] [TXP 4] and the screen will display "WT-LED 34"

Press [MENU] enter, press [UP] / [DOWN] and select the desired color of BLUE/ORANGE/PURPLE/OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

Selecting receive display color (RX-LED) ---- MENU 35

The transceiver has four colors available:

BLUE / ORANGE / PURPLE / OFF

In standby, press [MENU] + number [SAVE 3] [SCR 5] and the screen will display "RX-LED 35"

Press [MENU] enter, press [UP] / [DOWN] and select the desired color of BLUE / ORANGE / PURPLE/OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

How to operate

Selecting transmit display color (TX-LED) ---- MENU 36

The transceiver has four colors available:

BLUE / ORANGE / PURPLE/OFF

In standby, press [MENU] + number [SAVE 3] [TOT 6] and the screen will display "TX-LED 36"

Press [MENU] enter, press [UP] / [DOWN] and select the desired color of BLUE / ORANGE / PURPLE/OFF.

Press [MENU] to confirm, then press [EXIT] to return to standby.

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

When transceiver works in frequencymode or in standby, input the frequency and any kind of parameter what you want to store.

Press [MENU] + number [SAVE 3] [VOX 7] and the screen will display "MEM-CH 37"

Press [MENU] enter, press [UP] / [DOWN] to select channelorder, press [MENU] to store and you will hear a voiceprompt if it is stored.

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

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

40

Example:

You want 450.025MHz for receive and 460.025MHz for transmit and stored in CH-20, then act as follows:

1. When the transceiver works in frequency mode, input [TXP 4] [SCR 5] [CLK 0] [CLK 0] [SQL 2] [SCR 5] , [MENU] + [SAVE 3] [VOX 7] + [MENU] , then press [SQL 2] [CLK 0] or [UP] / [DOWN] key select CH-20, press [MENU] key to confirm, voice prompt will tell you it is stored, press [EXIT] to exit;

2. Then input [TXP 4] [TOT 6] [CLK 0] [CLK 0] [SQL 2] [SCR 5] + [MENU] + [SAVE 3] + [VOX 7] + [MENU] + [MENU] and voiceprompt will tell you it is stored + press [EXIT] to exit.

3. The dis-channel is stored.

NOTE ⚠

» If you want to set CTCSS, D.C.S, DTMF signal etc functions on parameter please setting before stored. Then it can store with frequency in channel.

» The transmitting only stored transmit frequency and CTCSS/DCS, if you want to store other MENU functions, please store with the receiving.

» If you want to store by manual, in freuqencymode, and the channel should be vacant, then you can go on operation of store receiving or transmitting or you can only go on the operation of storing transmitting, If it is not vacant you should delete channel to go on the above operation.

» Besides manualstore, this transceiver also can via software to set each parameter.

41

Delete channel (DEL-CH) ---- MENU 38

In standby, press [MENU] + number [SAVE 3] [WBN 8] and the screen will display [°𝐷𝐸𝐿 °𝐶𝐻 ³⁸]

Press [MENU] enter, press [▲ UP] / [DOWN ▼] to select the channel you want to delete, press [MENU] to confirm. The select channel and message are deleted, press [EXT] to return to standby.

Setting frequencyshift direction (SFT-D) ---- MENU 39

Frequencyshift means that:

1. The transmit frequency is higher than receive frequency. This is called positive offset (+)

2. The transmit frequency is lower than receive frequency. This is called negative offset.(-)

3. Turn off frequencyshift.

In standby, press [MENU] + number [SAVE 3] [ABR 9] and the screen will display [°𝑆𝐹𝑇°𝐷 ³⁹]

Press [MENU] enter, press [▲ UP] / [DOWN ▼] and select +/-/OFF.

Press [MENU] to confirm, then press [EXT] to return to standby.

NOTE ⚠

≫ It can not transmit if the frequencyshift is sxceeding the permitted range. In this condition, to adjust the receiving frequency or frequencyshift and make the transmit frequency in a permitted range.

Setting offsetfrequency (OFF-SET) ---- MENU 40

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

In standby press [MENU] + number [TXP 4] [CLK] and the screen will display [°𝑂𝐹𝐹𝑆𝐸𝑇 ⁴⁰]

Press [MENU] enter, press [▲ UP] / [DOWN ▼] to select the offsetfrequency.

Press [MENU] to confirm, then press [EXT] to return to standby.

In order to let the transceiver receiving and transmitting under different frequency, the frequencyshift direction and offsetfrequency can only be programmed when the transceiver works in frequencymode.

Follow the next steps:

1. Set working frequency.

2. Set frequencyshift direction and offsetfrequency.

   Example: In frequencymode, the transceiver will work on receive frequency 450.025MHz and transmit frequency will be 460.025MHz.

   In frequencymode, order input [TXP 4] [SCR 5] [CLK] [CLK] [SQL 2] [SCR 5] , press [MENU] + [SAVE 3] + [ABR 9] + [MENU] and select positive offset (+); press [MENU] + [EXT] , then press [MENU] + [TXP 4] + [CLK] + [MENU] + [▲ UP] / [DOWN ▼] and select 10.000+ [MENU] + [EXT] and the frequencyshift direction plus offsetfrequency are complete.

The screen will display `"450025`

When press **PTT** key the screen will display `"460025`

When you release **PTT** the screen will display `"450025`

Now the receiving frequency is `"450025`

The transmit frequency is `"460025`

Setting reset (RESET) ---- MENU 41

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

When you use RESET VFO all parameters of menu will return to factory detault.

When you use RESET ALL all menu and channel parameters will return to factory detault.

I. MENU reset (VFO):

In standby, press [MENU] + number [4] [1] and the screen will display `"RESET`

Press [MENU] enter, press [UP] / [DOWN] select VFO, press [MENU] key and the screen will display `"SOURE?`

Press [MENU] again and the screen will display `"WRIT`

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

44

---

2. All message reset (ALL):

In standby, press [MENU] + number [4] [1] the screen will display `"RESET`

Press [MENU] enter, press [UP] / [DOWN] and select ALL, press [MENU] and the screen will display `"SOURE?`

Press [MENU] again and the screen will display `"WRIT`

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

Setting reverse frequency function

When using reverse frequency function, the transceiver's transmit and receive freuency will interchange and the setting of CTCSS and/or DCS encode and decode also will interchange.

■ Operating reverse frequency function:

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

Lowvoltage batterypack voiceprompt

When the batterypack has lowvoltage, the transceiver will sound "low batterypack" voice prompt, and the LED will flicker every 5 seconds, meanwhile it will sound "DI".

45

How to operate

Adding channelscan

Only scan according programming list which have added channel scan on programming software.

Edit method: Strictly via KG-679E programming software.

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 grows 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 settime, the transceiver will announce "transmit overtime" by voice and stops transmitting. If you want to transmit again, please press **PTT**. (Setting overtime prompt Pease 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 receiving and transmitting

Example: The repeater transmit frequency is 450.025MHz, CTCSS value is 67Hz, the receive frequency is 460.025MHz.

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

1. Set receive frequency, and store this on appointed channel, example channel 20. The transceiver in frequencymode, setting receive frequency to 460.025MHz, and store to channel 20. The operation is as follows:

In frequencymode, order input [4] + [6] + [.] + [.] + [2] + [5] , [MENU] + [3] + [7] + [MENU] ; [2] + [.] + [MENU] voice prompt receive store, press [EXIT] key.

2. Setting transmitfrequency, CTCSS value, and store on appoint channel 20. The transceiver in frequencymode, setting transmitfrequency as 450.025MHz, transmitting CTCSS value is 67Hz, and store on channel 20.

In frequencymode, order input [4] + [5] + [.] + [.] + [2] + [5] , [MENU] + [1] + [3] + [MENU] ; press [UP] / [DOWN] and select CTCSS value 67Hz+ [MENU] ,+ [3] + [7] + [MENU] ; [2] + [.]

How to operate

+ [MENU] .Voiceprompt transmit store, press [EXIT] key.

3. Press [MENU] , turn on the power at the same time, the transceiver work in channel mode at this time, press [△UP] / [DOWN▽] select channel 20, the transceiver can join repeater.

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

�wouxun
Professional FM Transceiver

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.	**1.** The batterypack is not installed properly. **2.** The batterpack maybe exhausted. **3.** The batterypack is getting too old.	**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.	**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.	**1.** Tum the volumecontrol. **2.** Reset the CTCSS/DCS **3.** Reset the mutemode.
There is no reception	**1.** Check if you have installed your antenna right. **2.** The signal you are receiving is very weak.	**1.** Install the supplied antenna. **2.** Move the radio around till you receive the desired signal or press [DOWN▽] to reset and then press [△UP] to go to right channel

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

Professional FM Transceiver

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

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

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
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.

54

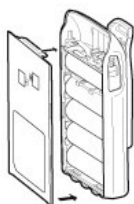## Optional accessories

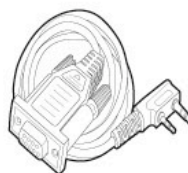Professional FM Transceiver

Dual slot charger   "AA" batterypack   Eliminator   Programmingcable   Carcharger

Wireclonecable   Headset   Speaker/MIC   Switching adapter   1700mAh Li-ion batterypack   Programming Software

55

Announce

Øwouxun 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 *Øwouxun* without prior notice.