Thanks for buying the Ⓦwouxun transceiver.

This transceiver offers latest design, enhanced features, solid performances and easy accessibility. We believe you will be pleased with the high quality and reliable 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 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 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 and *Ⓦwouxun* approved replacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Use only *Ⓦwouxun* approved, supplied batteries and *Ⓦ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 when talking on fuel, or parking in gasoline service stations.

>> If you require this machine to be developed or get some changes, please contact with *Ⓦwouxun* or your *Ⓦwouxun* dealer.

FCC Caution:

This equipment has been testen 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 equipent generates, uses and can radiate radio frequency energy and, If the equipment is not installed and used in accordance with the instructions, it 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 carse harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following.

Measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

FCC Licensing Requirements

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

Ⓦ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 a 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 heat 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.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Warning ⚠

» MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

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 Industry Park, Quanzhou, Fujian 362000, China

---

Contents

Contents

Contents

Unpacking and Checking the 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 item is missing or has been damaged during shipment, please notify your WOUXUN dealer.

Supplied Accessories

Transceiver	High gain antenna	Li-ion batterypack	Intelligent charger
WOUXUN Beltclip	Handstrap	User's manual	Warranty card

Description of Functions

1. Dual Band, Dual Frequency, Dual Display and Dual Standby
2. Frequency Range:
   136-174MHz & 406.1-512MHz (Rx/Tx)
3. Working Mode: U-V, V-V or U-U selectable
4. Channel setting: VHF Tx & UHF Rx or UHF Tx & VHF Rx selectable
5. DTMF encoding
6. Digital FM Radio (76-108MHz)
7. CTCSS/DCS scan
8. Output power: VHF(5W/1W)/UHF(4W/1W)
9. 199 memory channels
10. VOX
11. Stopwatch timer function
12. 105 groups DCS and 50 groups CTCSS
13. Voice guide
14. SOS Function
15. Multi-display modes (channel number/ channel frequency/ channel name selectable)
16. Reverse frequency

---

17. Multi-functional scan modes
18. Priority scan function
19. Bright flashlight illumination
20. Frequency steps selectable: 2.5K(Optional)/5K/6.25K/10K/12.5K/50K/100K
21. High/Low power changeable when transmitting
22. High capacity Li-ion batterypack
23. Intelligent charger
24. Offset frequency setting (0-69.975MHz)
25. Frequency shift direction setting
26. Busy channel lockout
27. Power-on message display (Battery-V/Full Screen/Other Characters)
28. Low voltage prompt
29. Begin/End transmitting prompt
30. Transmitting overtime prompt
31. Keypad lock (Auto / Manual)
32. Adding scanning channel
33. Programmable by computer
34. Wire-clone function
35. Menu/Channel reset
36. 1750Hz burst tone
37. IP55 waterproof

LCD Display

There are various indicators displaying on the screen when powering on. Please refer the below table to learn what the indicators stand for accordingly.

Split (negative)

Split (positive)

DCS

CTCSS

Arrow indicating the master frequency

High/Low power transmission

BCL indicator

Reverse frequency

Dual Standby

VOX Function

Indicator for sub frequency receiving

Narrow bandwidth

Battery capacity indicator

Menu Order/Channel Order

Menu Order/Channel Order

Keypad Lock

CT DCS + – R TDR VOX S N 白 低

↑ 145.037 ⁵¹98

↓ 439.762 ⁵¹98

HL
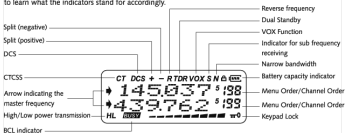
Note:

▭▭▭ Full Battery Capacity Indicator

▭ Exhausted Battery Capacity Indicator

▭▭ Low Battery Capacity Indicator

▬▬▬▬▬▬▬ Receiving signal meter

04

WOUXUN
Professional FM Transceiver

Description of Transceiver

Flashlight

Antenna

Receiving Light

Multifunctional Key

A/B Switch Key on Master Frequency

Screen/LCD Display

Function Key

Number Key

Up/Down Key

Rotary Encoder

Power Switch/Volume Control

Transmitting Light

Single/Dual Band Switch Key

Exit Key

Reverse Frequency/Scan Key

Lock/Stopwatch Timer Key
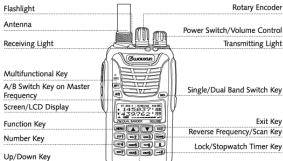
Note: Quickly switch the working mode (▢ + ▢)

Quickly reboot the transceiver (▢ + ▢)

05

PTT (Push-to-Talk) Key

Side Key 1: Scan/Lamp
SOS-CH/Radio

Side Key 2: Monitor (long press)
/ Flashlight (short press)
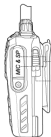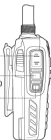
Speaker/
Microphone Jacks

Batterypack Latch

Ⓦ Wouxun
Professional FM Transceiver

■ **Quick Search**
Short Press ▲ or ▼ key to search the desired function/parameter during your setting, while long press to quick search.

■ **Single/Dual Band Switch**
Press 📻
Single Band ------------ Dual Band

■ **Quick Reboot the Transceiver**
In standby, press 📻 + ✱ , then LCD displays $\boxed{\text{SURE↵}}$. Press 📻 to confirm, and then the transceiver re-starts.

■ **Working Mode Switch**
In standby, press 📻 + 📻 to switch between Channel/Memory and Frequency/VFO working mode.

■ **A/B Switch Key on Master Frequency**
Press 📻 to select the master frequency. The frequency with arrowhead icon is the master frequency, while the other frequency without arrowhead icon is the sub frequency. The transceiver can transmit and receive in the master frequency, but ONLY receives in the sub frequency. When it is receiving in the sub frequency, then shows "S" on the screen.

■ **[PTT] Key**

Short press the [PTT] key to activate/inactivate the reverse frequency function, while keeping pressing for 2 seconds to active the scan function.

■ **Side Key 2 (Flashlight/Monitor selectable)**

Short press the side key to turn ON/OFF the flashlight, while keeping pressing for 2 seconds to activate the monitor function.

■ **RPT Multifunctional Key**

In standby, press RPT to activate the desired functions which are defined through the MENU 21, including FM Radio, Working mode switch, RPT(+/- offset, OFF, +/- R,R), Stopwatch timer, Lamp, SOS function, and OFF to undefine this key.

■ **1750Hz Burst Tone**

Sometimes, 1750Hz Burst Tone is required to carry out some specific functions. This transceiver has 1750Hz Burst tone to help you.

How to use

In standby, press PTT key and side key PF1 to transmit 1750Hz burst tone. The transmitting time depends on how long you press this combination keys, while releasing to stop transmitting the 1750Hz burst tone.

Shortcut Operation Sheet

FUOKUN Professional FM Transceiver

Function order	Function set	Enter function set	Screen display		Select parameter	Selectable parameter explanation		Confirm	Return to standby	See page
1 Step Frequency	[MENU]	[1]	[↑ STEP] [↑ 5.00K]	[MENU]	Select parameter	8 frequency steps available: 2.5K(Optional)/5k/6.25k/10k /12.5k/50k/100k		[MENU]	[PTT]	P14
2 Squelch Level	[MENU]	[2]	[SQL] [9]	[MENU]	Select parameter	Squelch level level:0 to 9		[MENU]	[PTT]	P15
3 Power Saver Mode	[MENU]	[3]	[SAVE] [3:1]	[MENU]	Select parameter	OFF, 1:1, 1:2, 1:3, 1:4		[MENU]	[PTT]	P15-16
4 Transmitting Power Selection	[MENU]	[4]	[TXP] [HIGH]	[MENU]	Select parameter	H: High power 5W/1W(UHF-4W) M: Middle power 2.5W L: Low power 0.5W		[MENU]	[PTT]	P17
5 Begin/End Transmitting Prompt	[MENU]	[5]	[ROGER] [OFF]	[MENU]	Select parameter	OFF: No indication sound at any voice prompting. BOT: press PTT, voice prompt when sending; EOT: release PTT, voice prompt when ending transmitting. BOTH: press and release PTT,voice prompt		[MENU]	[PTT]	P17
6 Time-out Timer	[MENU]	[6]	[TOT] [60]	[MENU]	Select parameter	TOT has 40 levels of step: OFF~ seconds; OFF:no TOT limit		[MENU]	[PTT]	P18
7 VOX	[MENU]	[7]	[VOX] [OFF]	[MENU]	Select parameter	VOX has levels from 1 to 10. OFF: no VOX function. 1: the least VOX sensitive 10: the most VOX sensitive		[MENU]	[PTT]	P18
8 Bandwidth Selection	[MENU]	[8]	[WN] [WIDE]	[MENU]	Select parameter	N(narrow): 12.5KHz W(wide): 25KHz		[MENU]	[PTT]	P18

9 Voice Guide	MENU → 09 → V-XXX → MENU → Select parameter	CHI,ENG: Choose voice prompt ENG,EN: English voice prompt OFF: Turn off voice prompt	MENU → EXIT	P19
10 Transmitting Overtime Alarm	MENU → 10 → TOT → MENU → Select parameter	1 to 10 limits with 1 second each OFF: Turn off TOA	MENU → EXIT	P19 20
11 Beep Prompt	MENU → 11 → BEEP → MENU → Select parameter	ON: Turn on beep prompt OFF: Turn off beep prompt	MENU → EXIT	P20
12 Power-on Message	MENU → 12 → POWER → MENU → Select parameter	OFF: Full screen display BATT-V: Battery voltage display MSG: WELCOME	MENU → EXIT	P20 21
13 Busy Channel Lockout	MENU → 13 → BCL → MENU → Select parameter	ON: Turn on BCL OFF: Turn off BCL	MENU → EXIT	P21
14 Keypad Lock	MENU → 14 → LOCK → MENU → Select parameter	ON: Turn on Autolock OFF: Turn off Autolock	MENU → EXIT	P22 23
15 Receiving CTCSS	MENU → 15 → R-CTC → MENU → Select parameter	50 groups CTCSS 67.0Hz-254.1Hz OFF: Turn off CTCSS	MENU → EXIT	P22 23
16 Transmitting CTCSS	MENU → 16 → T-CTC → MENU → Select parameter	50 groups CTCSS 67.0Hz-254.1Hz OFF: Turn off CTCSS	MENU → EXIT	P23 24
17 Receiving DCS	MENU → 17 → R-DCS → MENU → Select parameter	105 groups DCS (D023N-D754I) OFF: Turn off DCS	MENU → EXIT	P23 24

10

---

18 Transmitting DCS	MENU → 18 → T-DCS → MENU → Select parameter	105 groups DCS (D023N-D754I) OFF: Turn of DCS	MENU → EXIT	P24 25
19 Scan Mode	MENU → 19 → SC → MENU → Select parameter	TO: Time scanning mode CO: Carrier mode, begin SE: Search mode, begin	MENU → EXIT	P24 25
20 Scan/Lamp/ SOS-CH/FM Radio Side Key 1)	MENU → 20 → PF1 → MENU → Select parameter	SCAN: scan LAMP: Turn on Lamp SOS-CH: SOS function RADIO: Turn on FM radio	MENU → EXIT	P25
21 RPT Multifunctional Key (Side Key 2)	MENU → 21 → PF2 → MENU → Select parameter	OFF: multifunctional key RPT: Relay Function REVE: Reverse function	MENU → EXIT	P26 34
22 Working Mode Switch	MENU → 22 → CH-A → MENU → Select parameter	Freq mode Channel mode	MENU → EXIT	P32 34
23 Auto Backlight	MENU → 23 → ABR → MENU → Select parameter	ON: Turn on backlight OFF: Turn off backlight	MENU → EXIT	P34
24 Offset Frequency	MENU → 24 → OFFSET → MENU → Select parameter	0-69.990MHz available	MENU → EXIT	P35
25 Frequency Shift Direction	MENU → 25 → SFT-D → MENU → Select parameter	Positive direction Negative direction OFF: Turn off frequency shift direction	MENU → EXIT	P35 36

11

26 Stopwatch Timer	→ □ □ → SW: ON / OFF → □ □ → Select parameter → MENU	P36-37	SW: turn on Stopwatch function / OFF: Turn off Stopwatch function
27 Channel Name Edit	→ □ □ → NEV-SW N / EDIT → □ □ → Select parameter → MENU	P37	Channel name should be composed by 26 letters (A to Z) and 10 numbers (0 to 9) and symbols.
28 Channel Memory	→ □ □ → MEM-CH / EDIT → □ □ → Select parameter → MENU	P38-39	199 channels available
29 Channel Delete	→ □ □ → DEL-CH / XXX → □ □ → Select parameter → MENU	P39	199 channels available
30 Reset	→ □ □ → RESET / XXX → □ □ → Select parameter → MENU	P40-41	VFO: reset VFO / ALL: All parameter reset
31 SOS Band Selection	→ □ □ → SOS-SW / B → □ □ → Select parameter → MENU	P42	CH-A: SOS on Band A / CH-B: SOS on Band B
32 CTCSS/ DCS Scan	→ □ □ → SOS-CH / CTCSS → □ □ → Select parameter → MENU	P42-43	CTCSS: CTCSS scan / DCS: DCS scan

- Quick Search (See page 07)
- High/Low power changeable (See page 16)
- DTMF encoding (See page 44)
- Reverse frequency (See page 44)
- Transmitting overtime prompt (See page 47)
- Wire-clone function (See page 48)
- Programming guide (See page 52)

- 1750Hz burst tone (See page 08)
- SOS-CH (SOS function) (See page 26)
- Priority scan function (See page 46)
- Low voltage prompt (See page 46)
- Adding scanning channel function (See page 47)
- Working with repeater (See page 48-51)

12

How to Operate

Ouxoun
Professional FM Transceiver

Active/Inactive MENU Function

If you don't operate the transceiver frequently, you can inactivate the MENU function via matching software. Hereby follow the detailed setting method.

1. Set channel mode as the working mode.

2. Untick 'MENU AVAILABLE' in Channel Mode column.

If you want to operate menu function, you can switch to Frequency Mode, or put a tick before 'MENU Available' in Channel Mode column of the matching software.

> **NOTE** ⚠
>
> » In dual standby, the screen shows 'TDR'. The frequency with an arrowhead icon is the master frequency, while the other one is the sub frequency. When receiving in sub frequency, the screen shows 'S'. In dual standby, it can transmit/receive in master frequency but only receives in sub frequency.
>
> » **Master Frequency Selection.** In standby, press □ to select the desired master frequency.
>
> » The transceiver is the dual bander, with dual frequency and dual display functions. In frequency mode, it can display two different receiving/transmitting frequencies at the same time. In channel mode, it can also display the channel/frequency and related parameter in both channels at the same time.

13

How to Operate

NOTE ⚠

» In frequency/channel mode, it is switchable between band A and band B by 📶 key, When the A/B indicator shows in band A, all the operations are based on band A. While the indicator shows in band B, all the operations are based on band B.

» In frequency mode, it is available to seperately set the frequency step, transmitting power, squelch level, bandwidth, CTCSS, DCS, offset frequency, frequency shift direction and channel display modes in band A or band B.

» In channel mode, it is invalid to set frequency step, transmitting power, CTCSS, DCS, bandwidth, offset frequency, and frequency shift direction functions in band A and band B.

Step Frequency (STEP) ----- MENU 1

In standby, press 📶 + , then screen displays `1 STEP 15.00K`.

Press 📶 to enter, it shows '12.50K', press 🔼 / 🔽 to select the desired step, then press 📶 to confirm, finally press EXIT to return to standby.

The frequency steps selectable for this transceiver are as follows:

2.5KHz(Optional), 5.00KHz, 6.25KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.

14

ⒼWOUXUN
Professional FM Transceiver

Squelch Level (SQL-LE) ----- MENU 2

Squelch level is about when the signal is strong enough to turn on the squelch function, and when it is weak enough to turn off. You may hear the voice from the loudspeaker when turning ON the squelch and receiving the same signal from other transceivers. Higher level makes it harder to receive the weak signals, while lower level will be interfered by noises and/or unwanted signals.

NOTE ⚠

» The squelch level for this transceiver has 0-9 levels selectable, and level 0 means turn off the squelch function. The higher level of the squelch is set, the stronger receiving signal is needed.

In standby, press 📶, the screen displays `2 SQL-LE 5`.

Press 📶 to enter, it shows '5', press 🔼 / 🔽 to select the desired squelch level, then press 📶 to confirm, finally press EXIT to return to standby.

Power Saver Mode (SAVE) --- MENU 3

When the power saver function is ON, the receiver circuit will be cut off for a moment, and then re-activate to detect the signals for a while, in order to reduce the battery capacity consumption.

15

In standby, press MENU + 3 , the screen displays `*-SAVE-*[OFF]`

Press MENU to enter, it shows 'ON', press ▲ / ▼ to select turn ON/OFF the power saver funtion. Press MENU to confirm, then press EXIT to return to standby.

Transmitting Power Selection (TXP) --- MENU 4

In frequency mode, press MENU + 4 , the screen displays `*-TXP-*[H/2BH]`

Press MENU to enter, it shows 'HIGH', press ▲ / ▼ to select HIGH/LOW power, then press MENU to confirm, finally press EXIT to return to standby.

NOTE ⚠️

≫ This transceiver has HIGH and LOW transmitting power selectable:
VHF: HIGH: 5W LOW:1W
UHF: HIGH: 4W LOW:1W

≫ The quick switch between the HIGH and LOW transmitting power is temporary. In transmitting mode, press B0 key to quick switch the HIGH/LOW transmitting power. Once the transceiver is rebooted, the transmitting power reverts to the original output power.

16

Begin/End Transmitting Prompt (ROGER) --- MENU 5

This function is to select the prompt modes when beginning/ending transmitting.

OFF: No voice prompt when beginning or ending of transmission.

BOT: Voice prompt when pressing PTT (beginning of transmission).

EOT: Voice prompt when releasing PTT (ending of transmission).

BOTH: Voice prompt when pressing and releasing PTT (begin and end of transmission).

In standby, press MENU + 5 , the screen displays `*-ROGER-*[OFF]`

Press MENU to enter, it shows 'OFF', press ▲ / ▼ to select OFF/BOT/EOT/BOTH, then press MENU to confirm, finally press EXIT to return to standby.

Time-out Timer (TOT) --- MENU 6

This function is to prevent the transceiver from long time transmitting. When the transceiver is exceeding the preset time limit, it will transmitting with an overtime alarm.

This transceiver can be set in 40 levels with 15 seconds each, between 15 and 600 seconds.

In standby, press MENU + 6 , the screen displays `*-TOT-*[60S]`

Press MENU to enter, it shows '60', press ▲ / ▼ to select the desired transmitting level, then press MENU to confirm, finally press EXIT to return to standby.

17

VOX (VOX) --- MENU 7

This function means the transceiver will switch to the transmitting mode when detecting the voice singal. As the VOX circuit must check the existing signals, the transmitting will be a little delay, and the beginning transmission may not be transmitted completely.

In standby, press **MENU** + **7** , the screen displays `[VOX ↑ 1]` `[OFF ]`

Press **MENU** to enter, it shows 'OFF', press **▲** / **▼** to turn OFF VOX function or select VOX level (1-10), then press **MENU** to confirm, finally press **EXIT** to return to standby.

NOTE ⚠

» The higher level of VOX is set, the higher volume is needed.

» In SCAN and RADIO modes, the VOX function is not available.

Bandwidth (WN) --- MENU 8

In standby, press **MENU** + **8** , the screen displays `[WN ↑ 1]` `[NARROW]`

Voice Guide (VOICE) --- MENU 9

This transceiver has English (ENGLSH) and Chinese (CHINES) voice guide available.

In standby, press **MENU** + **9** , the screen displays `[ENGLISH ↑ 1]` `[ENGLISH]`

Press **MENU** to enter, press **▲** / **▼** to select Chinese, English or OFF , and then press **MENU** key to confirm, finally press **EXIT** to return to standby.

NOTE ⚠

» Turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompt if required.

Transmitting Overtime Alarm (TOA) --- MENU 10

The TOA means the transceiver's transmitting light will flash and alarm 'OVER TIME' before the transmitting time reached the pre-set transmitting time (TOT).

This transceiver has 1-10 TOA level available, each level 1 second. E.g level 1 means the transceiver will alarm and transmitting light will flash before 1 second when the transmitting reach pre-set TOT time.

In standby, press **MENU** + **1** **0** , the screen displays `[TOA ↑ 5]` `[5 ]`

Press **MENU** to enter, show '5', press **▲** / **▼** to select OFF/1~10 Level, then press **MENU** to confirm, finally press **EXIT** to return to standby.

19

How to Operate

Beep Prompt Function (BEEP) --- MENU 11

Beep prompt function means the transceiver will prompt it is confirmed, wrong or problematic operating.

In standby, press **MENU** + **WARN**, the screen displays ⌈BEEP⌉ₒₙ.

Press **MENU** to enter, it shows 'ON', press **▲/** / **▼/** to turn ON/OFF the beep prompt function, then press **MENU** to confirm, finally press **EXIT** to return to standby.

NOTE ⚠️

≫ When MENU 9 VOICE function and MENU 11 BEEP function are both on at the same time, the VOICE function is prioritized.

Power-on Message (PONMSG) --- MENU 12

This transceiver has 3 display modes selectable for the power on message as follows:

OFF: display the full screen

BATT-V: display the current battery voltage

MSG: display 'WELCOME' or other characters

In standby, press **MENU** + **WARN**, the screen displays ⌈POWER⌉ₒₙ.

Press **MENU** to enter, it shows 'OFF', press **▲/** / **▼/** to select OFF/BATT-V/MSG, then press **MENU** to confirm, finally press **EXIT** to return to standby.

NOTE ⚠️

≫ You can edit the desired Power-on Message via KG-UV6D programming software. It is compose of 6 digits max, including letters A to Z, numbers 0-9 and other characters.

Busy Channel Lockout (BCL) --- MENU 13

This function means to prevent the transceiver from interfering other communicating channels, if the selected channel is occupied, press PTT, the transceiver will alarm and cannot transmit.

In frequency mode, press **MENU** + **WARN**, the screen displays ⌈BCL⌉ₒₙ.

Press **MENU** to enter, it shows 'OFF', press **▲/** / **▼/** to select ON/OFF this function, then press **MENU** to confirm, finally press **EXIT** to return to standby.

How to Operate

Keypad Lock (AUTOLK) --- MENU 14

This transceiver has automatic lock (AUTOLK) and manual lock selectable.

ON: Turn on automatic lock function. If no operation is conducted within 15 seconds, it will be locked automatically. Keep pressing 🔒 longer than 2 seconds to unlock.

OFF: Turn off automatic lock function. If required, lock the keypad manually.

NOTE ⚠

>> Manually Lock: In standby, keep pressing 🔒 longer than 2 seconds to lock the transceiver, and press again to unlock.

In standby, press 🔲 + 🔲 , the screen displays ⌈ᴬᵁᵀᴼᴸᴷ_ₒₙ⌉ .
Press 🔲 to enter, it shows 'OFF', press ▲ / ▼ to select ON/OFF this function, then press 🔲 to confirm, finally press 🔲 to return to standby.

Receiving CTCSS (R-CTCSS) --- MENU 15

Setting this function, you can communicate with the specific individuals or groups and neglect the unwanted callings from other users who set the same frequencies with you. The transceivers can communicate ONLY after receiving the corresponding CTCSS/DCS tone.

In frequency mode, press 🔲 + 🔲 , the screen displays ⌈ᴿ⁻ᶜᵀᶜˢˢ_ₒ𝒻𝒻⌉ .

22

Press 🔲 to enter, it shows 'OFF', press ▲ / ▼ to turn OFF this function or select 67.0Hz to 254.1Hz CTCSS code, then press 🔲 to confirm, finally press 🔲 to return to standby.

NOTE ⚠

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

Transmitting CTCSS (T-CTCSS) --- MENU 16

In standby, press 🔲 + 🔲 , the screen displays ⌈ᵀ⁻ᶜᵀᶜˢˢ_ₒ𝒻𝒻⌉ .
Press 🔲 to enter, it shows 'OFF', press ▲ / ▼ to turn OFF this function or select 67.0Hz to 254.1Hz CTCSS code, then press 🔲 to confirm, finally press 🔲 to return to standby.

NOTE ⚠

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

Receiving R-DCS (R-DCS) --- MENU 17

In frequency mode, press 🔲 + 🔲 , the screen displays ⌈ᴿ⁻ᴰᶜˢ_ₒ𝒻𝒻⌉ .
Press 🔲 to enter, it shows 'OFF', press ▲ / ▼ to turn OFF this function or select D023N to D754I DCS code, then press 🔲 to confirm, finally press 🔲 to return to standby.

23

How to Operate

NOTE

> This transceiver has 105 groups DCS, see appendix (2) DCS frequency sheet.
> In DCS selections, DXXXN (from D023N to D754N) means POSITIVE code, while DXXXI (from D023I to D754I) means NEGATIVE code.

Transmitting DCS (T-DCS) --- MENU 18

In standby , press MENU to enter, the screen displays `T-DCS` .
Press MENU to enter, it shows 'OFF', press ▲ / ▼ to turn OFF the function or select D023N to D754I
DCS code, then press MENU to confirm, finally press EXIT to return to standby.

NOTE

> This transceiver has 105 groups DCS, see appendix (2) DCS frequency sheet.
> In DCS selections, DXXXN (from D023N to D754N) means POSITIVE code, while DXXXI (from D023I to D754I) means NEGATIVE code.

Scan Mode (SC-REV) — MENU 19

TO: Scanning will go on if no operation is conducted to the transceiver within 5 seconds after receiving signals.
CO: Scanning will stop when the transceiver received signals, and it will go on scanning after signals disappeared for 3 seconds.
SE: Scanning will stop when the transceiver received signals.

Ourouxun
Professional FM Transceiver

In standby, press MENU + PF1 , the screen displays `SC-REV` .
Press MENU to enter, it shows 'TO', press ▲ / ▼ to select TO/CO/SE scan mode, then press MENU to
confirm, finally press EXIT to return to standby.

Scan/Lamp/SOS-CH/FM Radio on Side Key 1 (PF1) — MENU 20

There are four functions selectable on Side key 1 of this transceiver:

SCAN: Scan function   **LAMP:** Lamp function   **SOS-CH:** SOS function
RADIO: FM radio function   **OFF:** Disable this side key

1. SCAN function

In standby, press side key 1 to activate scanning (scan mode can be set through MENU 19 -Scan Mode
Setting), while press any key to stop scanning.
In standby, press MENU + PF2 , the screen displays `PF1 = RADIO` .
Press MENU to enter, press ▲ / ▼ to select SCAN, then press MENU to confirm, finally press EXIT to
return to standby.

2. LAMP function

In standby, press side key 1 to turn on the Lamp, press this key again to turn it off.
In standby, press MENU + PF2 , the screen displays `PF1 = RADIO` .

How to operate

Press [MENU] to enter, press [▲] / [▼] to select LAMP, then press [MENU] to confirm, finally press [EXIT] to return to standby.

3. SOS-CH (SOS function):

When you are in emergency circumstances, press side key 1 to transmit the 'wu wu...' SOS signals to the outside for help. Meanwhile, the transceiver will also sound 'wu wu...' with light flash. It will transmit the SOS signals every 5 minutes with 10 seconds each time. If the transceiver receives signals during the transmission of SOS, it will return to the receiving mode, after the signals disappeared, back to SOS transmitting function. Press any key to save.

> [!NOTE] **⚠️ NOTE**
>
> » The transceiver will automatically set the SOS-CH in the master frequency even the SOS-CH you set is not the master frequency. You can press [▲] + [MENU] to re-select the master frequency.
> » You can set the SOS Band via MENU 31.

In standby, press [MENU] + [radio display icon], then screen displays [FM1 icon 87.000],
then press [MENU] to enter, press [▲] / [▼] to choose SOS-CH submenu, the screen displays [SOS-CH icon CH-B],
press [▲] / [▼] to choose Band A or Band B, then press [MENU] to confirm.

After the above setting, in standby, press side key 1 to activate SOS function.

26

Ⓦ wouxun
Professional FM Transceiver

4. RADIO function:

- **Turning on the FM radio:** In standby, press side key 1 to turn on. The screen displays [radio icon 87.000], and the green light flashes, it means the transceiver is searching the radio station, it will stop flashing after any signal is searched. Then you can listen to the radio.

- **Tuning the FM radio station:** In radio mode, press [MENU], the radio keeps tuning the stations automatically and the green light flashing until it searched the available stations. You can press [▲] / [▼] to fine-tune the searched stations.

- **Storing radio station:** After detecting a radio station, press [MENU], the screen displays [radio icon CH-8 88.100], you can press one of the number keys between [key] and [key] to save this radio station for your future use.

  The transceiver has two groups of channels selectable for your storing, and the default group is the first storage.
  E.g. If you want to store 88.1MHz into the 1st group Channel 8, In radio mode, when tuning the desired radio station, press [MENU] to store it into the 1st storage directly. If you want to store this frequency into the 2nd group Channel 8. In radio mode, when tuning the desired radio station, press [MENU] and then the screen will display [radio icon CH-8 88.100]. At this time, press [▲] + [key] to store this station into the 2nd group Channel 8.

27

How to Operate

In radio mode, press 1 to 9 key to select the stored stations accordingly to listen, while use the ⫧ key to switch between 1st and 2nd storages.

• Exiting from the radio mode: Press Side key 1 again to exit from the radio mode.

> ## NOTE ⚠
>
> » When you are listening to radio, the current channels are still working (in standby). Once receiving the signals, it will return to the transceiver's communicating mode. After signals disappeared 5 seconds it will return to the Radio mode automatically.
>
> » In radio mode, you can press ⫧ to check the current standby channel/frequency. Press PTT to transmit, after 5 seconds, it will go back to the Radio mode.

Professional FM Transceiver

FM Radio/Working Mode/RPT/Stopwatch Timer/Lamp/Alarm (PF2) --- MENU 21

This RPT (PF2) key with 6 functions available.

1. RPT: Multifunctional Key

In standby, short press ⫧ to activate the corresponding functions circularly. These functions are +R (+ shift direction & reverse frequency), -R (- shift direction & reverse frequency), R (reverse frequency), + (+ shift direction), - (- shift direction), and OFF (inactivate this key).

In standby, press ⫧▣▣ + ▣▣⫧ , the screen shows ⌜RPF⁻⁻?⌝ , press ⫧▣▣ to enter, then press ⫧▣▣ / ⫧ to select RPT, and then press ⫧▣▣ to confirm, press ⫧▣⫧ turn to standby mode.

Please refer to MENU 24/25 to set the Offset Frequency and Frequency Shift Direction functions.

> ## NOTE ⚠
>
> » This functions only available in Frequency mode. If the frequency range is out of the range of +R and -R, the Reverse function is invalid.

2. SECOND: Stopwatch Timer Function

In standby, short press ⫧ to activate the stopwatch timer function.

How to Operate

In standby, press **MENU** + **P2** **RPT** , the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{RPT} \end{smallmatrix}}$, press **MENU** to enter, then press **▲** / **▼** to select SECOND, the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{SECOND} \end{smallmatrix}}$, press **MENU** to confirm, and then press **RPT** to turn to standby mode.

NOTE ⚠

≫ If the RPT is defined as SECOND stopwatch timer function, please also set MENU 26 (Stopwatch Timer) to activate this function.

3. LAMP: Activate Lamp Function

In standby, press **MENU** + **P2** to turn ON/OFF the backlight.

In standby, press **MENU** + **P2** **RPT** , the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{RPT} \end{smallmatrix}}$, press **MENU** to enter, then press **▲** / **▼** to select LAMP, the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{LAMP} \end{smallmatrix}}$, press **MENU** to confirm, and then press **RPT** to turn to standby mode.

4. SOS: SOS Function

In standby, short press **MENU** + **P2** to activate SOS function.

In standby, press **MENU** + **P2** **RPT** , the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{RPT} \end{smallmatrix}}$, press **MENU** to enter, then press **▲** / **▼** to select SOS, the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{SOS} \end{smallmatrix}}$, press **MENU** to confirm, and then press **RPT** to turn to standby mode.

NOTE ⚠

≫ If the RPT is defined as SOS function, please also set MENU 31 (SOS Band Selection) to activate this function.

5. OFF: Inactivate this Function

Turn OFF the **RPT** function.

In standby, press **MENU** + **P2** **RPT** , the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{RPT} \end{smallmatrix}}$, press **MENU** to enter, then press **▲** / **▼** to select OFF, the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{OFF} \end{smallmatrix}}$, press **MENU** to confirm, and then press **RPT** to turn to standby mode.

6. RADIO: Activate FM Radio Function

In standby, short press **MENU** + **P2** to activate FM radio function.

In standby, press **MENU** + **P2** **RPT** , the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{RPT} \end{smallmatrix}}$, press **MENU** to enter, then press **▲** / **▼** to select RADIO, the screen shows $\boxed{\begin{smallmatrix} \textit{PF2} & \textit{-F} \\ \textit{RADIO} \end{smallmatrix}}$, press **MENU** to confirm, and then press **RPT** to turn to standby mode.

NOTE ⚠

≫ If the RPT is defined as RADIO function, please also set MENU 20 (FM Radio Function on Side Key 1) to activate this function.

How to operate

7. FR/CH: Working Mode Switch

In standby, short press 📟 to speedily switch between Frequency and Channel mode.

In standby, press 🔘 + 🔲 **MB2** 🔲 **MB3** , the screen shows ⌈ ⁷`FR` ⌉ , press 🔘 to enter, then press
🔼 / 🔽 to select FR/CH, the screen shows ⌈ `F-CH` ⌉ , press 🔘 to confirm, and then press 📟
to turn to standby mode.

> ### NOTE ⚠️
>
> ≫ If the RPT is defined as FR/CH function, please also set MENU 22 (Working Mode Switch) to activate this function.

Working Mode Switch (CH-MDF) --- MENU 22

This transceiver has two options for the working mode:

1. Frequency mode (FREQ)

2. Channel mode

There are three channel display selections in channel mode as follows:

①Channel (CH)   ②Frequency + Channel number (CH FREQ)   ③Channel name (NAME)

32

> ### NOTE ⚠️
>
> ≫ It is available to switch between the frequency mode and the channel mode manually or via the programming software. If you want, you can also switch the working mode for the mode switch.
>
> ≫ The password for the mode switch is ONLY available to set via KG-UV6D programming software.
>
> ≫ The password is consist of 6 characters, while "000000" means no password needed for the mode switch.

Frequency mode (FREQ) and Channel mode switchable

① **Without password input**

In standby, press 🔘 + 🔲 **MB2** 🔲 **MB3** , then press 🔼 / 🔽 to choose working mode and finally press 🔘 to confirm.

② **With password input**

In standby, press 🔘 + 🔲 **MB2** 🔲 **MB3** , then press 🔼 / 🔽 to choose one of FREQ/NAME/CH/CHFREQ. Press 🔘 to confirm, then the screen displays ⌈ `------` ⌉ . Please input the preset password through the keypad, then the transceiver will switch to the selected mode.

33

How to Operate

NOTE ⚠️

>> Only it stored at least 1 Channel and/or Channel Name, then the transceiver can switch to Channel Number and/or Channel Name mode.

>> Speedy switch between frequency and Channel mode:

In standby, press [MENU] + [AB] combination keys to switch the desired working mode. Input the password of mode switching if set.

Auto Backlight (ABR) --- MENU 23

In standby, press [MENU] + [V/M] [V/M] , the screen displays `[*new**|*|*]`.

Press [MENU] to enter, it shows 'ON', press [▲] / [▼] to turn ON/OFF auto backlight function, then press [MENU] to confirm, press [EXIT] return to standby.

NOTE ⚠️

>> This funcion is only activated when operating on the front case keypads and side key 1, but not on side key 2 and PTT key.

34

Offset Frequency (OFF-SET) --- MENU 24

Offset frequency means the difference between transmitting frequency and receiving frequency. The range of this transceiver is from 0 to 69.975MHz.

In standby, press [MENU] + [V/M] [V/M] , the screen displays `[*OFF-S*|*|*]`.

Press [MENU] to enter, press [▲] / [▼] to select the listed offset frequency, or manually input through keypad directly.Press [MENU] to confirm, press [EXIT] return to standby.

Frequency Shift Direction (SFT-D) --- MENU 25

There are three selections for the frequency shift direction setting:

1. Plus shift (+), which means that the transmitting frequency is higher than the receiving frequency.

2. Minus shift (-), which means that the transmitting frequency is lower than the receiving frequency.

3. Turn off this function.

In standby, press [MENU] + [V/M] [V/M] , the screen displays `[*SFT-D*|*|*]`.

Press [MENU] to enter, press [▲] / [▼] to select +/-/OFF, then press [MENU] to confirm, finally press [EXIT] return to standby.

The Offset Frequency and Frequency Shift Direction functions will be only valid under Frequency mode.

Please follow the below setting steps:

35

How to operate

1. Set the working mode to the frequency mode.
2. Set the frequency shift direction and offset frequency.

E.g.: In frequency mode, the transceiver needs to work on receiving frequency 450.025MHz and transmitting frequency 460.025MHz.

In Frequency mode, input 🔢 🔢 🔢 🔢 🔢 🔢 then press 🔘 → 🔢 → 🔘 → 🔘 → ▲/▼ to select positive direction (+), 🔘 → 🔘, then press 🔘 → 🔘 → 🔘 → 🔘 → ▲/▼ to choose 10.000+ 🔘 → 🔘, so the frequency shift direction and offset frequency are set.

The screen displays `450.025`, press PTT to transmit and the screen displays `460.025`. Release PTT the screen displays `450.025` and it means receiving frequency is `450.025` while the transmitting frequency is `460.025`.

Stopwatch Timer (SECOND) --- MENU 26

In standby, press 🔘, the screen displays `26 SEC`.
Press 🔘 to enter, it shows "OFF", then press ▲/▼ to turn ON/OFF this function, press 🔘 to confirm, finally press 🔘 to return to standby.

Using the stopwatch timer:

36

When this function is ON, press 🔘 to start counting, while press any key to pause. Press 🔘 again to re-start counting.

> **NOTE**
>
> ≫ When it pauses counting, press any key,except 🔘 and 🔘 (defined as Stopwatch function) to Exit the Stopwatch timer function.

Channel Name Edit (CHNAME) --- MENU 27

You should at least store one channel to the transceiver, and it must be under Channel mode, then you can edit the Channel Name.

1. Channel Name is composed by 26 letters (A~Z) and 10 numbers (0~9), 6 digits max. Press the ▲ key to choose letters then press the ▼ to select the editing place. The "-" symbol means that this digit is a blank.
2. Edit channel name via KG-UV6D programming software, or input via keypads manually.

Editing Method

1. Set the transceiver in Channel Name display mode (see P32-34: Working Mode Switch).
2. Select the desired channel, press 🔘 → 🔢 → 🔢 → 🔘, the screen displays 6 "-" bar, press the

37

How to Operate

🔼 key to choose letters, then press the 🔽 to edit the second digit. After finishing editing, press 💾 to confirm, then press 💾 to exit. The screen displays the edited name, and the right corner shows the corresponding channel number.

Channel Memory (MEM-CH) --- MENU 28

In frequency mode and in standby, it is available to store the desired frequencies and relevant parameter into the specified channel.

Input the desired frequency, then press 💾 + MenU + 2️⃣ + 8️⃣ , the screen displays `-MEM-·CH` ☰. Press 💾 to enter, press 🔼 / 🔽 to select the desired channel, press 💾 to store, with the voice prompt "receiving memory". Press 💾 to exit, this memory channel with same TX and RX frequency. If you need to store the different TX and RX frequencies in the same channel, repeat the above operation with another frequency, there is another voice prompt "transmitting memory".

E.g.: Store receiving frequency 450.025MHz and transmitting frequency 460.025MHz into CH-20.

1. In frequency mode, input 4️⃣ 5️⃣ 0️⃣ · 0️⃣ 2️⃣ 5️⃣ + MenU + 2️⃣ 8️⃣ , then press 💾 , 2️⃣ 0️⃣ / 🔼 / 🔽 to select CH-20, press 💾 to confirm, voice prompt for receiving memory, then press 💾 .

38

Page 39

@WOUXUN
Professional FM Transceiver

2. Input 4️⃣ 6️⃣ 0️⃣ · 0️⃣ 2️⃣ 5️⃣ + MenU + 2️⃣ 8️⃣ , voice prompt for transmitting memory, then press 💾 .

The different TX and RX frequencies were stored in CH20 successfully now.

NOTE ⚠️

≫ If required, the CTCSS/DCS tone should be set before storing the matching TX/RX frequencies to the channel.
≫ Transmitting memory only store the transmitting frequency.
≫ The empty channels can not both receiving and transmitting memory, otherwise only transmitting memory can be done. Delete the stored channels if you want to set receiving and transmitting memory in the same channel.
≫ When the memory channel you selected display `-MEM-·CH` ☰ , it means that this channel is not empty (stored before), while displays `-MEM-·CH` ☰ means that this channel has been stored.
≫ Besides the manual memory, it is also available to do the memory channel via the matching programming software.

Channel Delete (DEL-CH) ------ MENU 29

In standby, press 💾 , the screen displays `-DEL-·CH` ☰ . Press 💾 to enter, press 🔼 / 🔽 to select the desired channel, then press 💾 to delete the channel.

After the channel is deleted successfully, press 💾 to return to standby.

39

How to Operate

Reset ------ MENU 30

This transceiver has two selections for the reset operation-VFO reset and ALL reset.

VFO reset means that all the functional parameter set in frequency mode resume to the factory setting. ALL reset means that all the functional parameter set in both frequency mode and channel mode resume to the factory setting.

1. VFO Reset

In standby, press ▭▭ + ▭▭ **0** , the screen displays `RESO` `VFO` `0` ,

press ▭▭ to enter, and press ▲ / ▼ to select VFO, then press ▭▭ , the screen displays `RESET` `0` ,

press ▭▭ again to confirm, and the screen displays `WAIT` `0` .

After this operation, the transceiver will be resumed automatically.

2. ALL Reset

In order to avoid the faulty operations, we suggest that you set the password for the ALL Reset via KG-UV6D programming software. Only input the valid password, the transceiver can be reset to the factory setting completely. Pls see the password setting in the programming software, which is consist of six arabic numerals selectable from 0 to 9.

When the password is "000000", it means no password needed to input for this operation.

---

(1) Setting password as "000000"

In standby, press ▭▭ + ▭▭ **0** , the screen displays `RESO` `VFO` `0` ,

press ▭▭ to enter, and press ▲ / ▼ to select ALL, the screen displays `RESET` `0` ,

then press ▭▭ again to confirm, the screen displays `WAIT` `0` .

When the reset is done, the transceiver will be resumed automatically.

(2) Setting password as "XXXXXX" (E.g.:123456)

In standby, press ▭▭ + ▭▭ **0** , the screen displays `RESO` `VFO` `0` ,

press ▭▭ to enter, and press ▲ / ▼ to select ALL, press ▭▭ , the screen will displays

`RESET` `0` , at this time input the valid password (e.g.:123456), the screen displays `WAIT` `0` ,

then the transceiver will start resetting. After reset is done, the transceiver will be resumed automatically.

SOS Band Selection (SOS-CH) --- MENU 31

This function can set which band to transmit the SOS signals.

In standby, press 📺 and 📺 , the screen shows ⌜SOS_&₃₁_⌝ , press 📺 to enter, then press
▲ / ▼ to select CH-A or CH-B, press 📺 to confirm, and then press 📱 to turn to standby mode.

NOTE ⚠

» To activate the SOS function, please also set MENU 20 (SOS Function on Side Key 1) or MENU 21 (SOS
Function on RPT Multifunctional Key).

CTCSS/DCS Scan ------ MENU 32

This function can scan all transmitters CTCSS/DCS tones. If your CTCSS/DCS is different from the
other members in your group, you can detect these different tones.

When the transceiver is receiving mode, press 📺 and 📺 📱 , the screen displays ⌜SCN_&₃₂_⌝ .
Press 📺 to enter, the arrowhead points to "CTCSS". Press ▲ / ▼ to select CTCSS or DCS scan.
And then press 📺 to confirm, it starts scanning CTCSS/DCS frequencies.

⌇UOUXUN
Professional FM Transceiver

NOTE ⚠

» This function only works in frequency mode.
» Only when the transceiver detects the CTCSS/DCS signals from outside, this function works.
» When ▲ / ▼ or rotate the Rotary Encoder to change ascending or descending scanning.
» When the transceiver scans CTCSS/DCS frequency, it stops at this frequency. You can press 📺 to temporarily
replace this frequency as the current standby frequency. If you want to directly set this scanned frequency to be
current working frequency, please enter into MENU 15/16 (CTCSS) or MENU 17/18 (DCS) to save separately.
Or it will reset to the original setting before the next scanning.
» Only the band with the arrowhead and detecting the signal can be activated to be next the CTCSS/DCS scanning.

How to Operate

DTMF Encoding

MN , **▲** , **BII** keys are respectively corresponding to A, B, C, D at DTMF encoding setting.

Please follow the below steps to activate DTMF manually:

1. Hold on pressing PTT key to transmit.

2. At the same time, press the keys on the keyboard to send out the DTMF tone.

NOTE ⚠️

>> This transceiver will monitor the transmission of corresponding DTMF tone.

ANI ID Code Edit/Transmit/Transmitting Delay Time & DTME Sidetone

NOTE ⚠️

>> The above functions in this transceiver only can be edited by our programming software.

Editing ANI ID Code

ANI ID Code can be made up of alphanum (A–D and 0–9) with 6 digits max.

Transmitting ANI ID Code

44

Turn this function ON means when press PTT key, the ANI ID Code will be transmitted automatically, while turning OFF means manual transmitting.

ANI ID Code Transmitting Delay

This means the delay time of transmitting ANI ID after pressing the PTT key to communicate.

This delay time can be set 3 seconds max, total 30 levels with 100ms each.

DTMF Sidetone

DTMF sidetone means to turn ON/OFF the speaker when transmitting DTMF code, and get the corresponding DTMF tone.

There are 4 options on setting sidetone:

① Keypad Sidetone: Press keypad to turn on sidetone when transmitting.

② ANI-ID Code Sidetone: Transmit ANI ID Code to turn on sidetone.

③ key Sidetone+ANI-ID Sidetone: Pressing number key or transmit ANI ID Code can turn on sidetone when transmitting.

④ OFF: In encoding mode, all sidetones are off.

45

Priority Scan

If you want to monitor the other frequency and check the certain preferred frequency at the same time, you can set priority scan function.

E.g.: Scan six channels: Set CH1, CH2, CH3, CH4 and CH5 as the common scanned channels, and CH6 as the priority scanned channel. Then the scanning order is as followings:

┌ CH1→CH6→CH2→CH6→CH3→CH6→CH4→CH6→CH5→CH6 ┐

When this transceiver detects signal on the priority channel during scanning,it will on its frequency. Please program the priority channel via KG-UV6D programming software.

Reverse Frequency

When using the reverse frequency function, the transmitting and receiving frequencies of this transceiver will be interchanged together with all settings for CTCSS/DCS and DTMF setting.

How to set the reverse frequency:

in standby, press ▭▭▭ to activate this funciton, while press ▭▭▭ again to switch it off.

Channel Mode Operation

1. Unlock the menu setting.
2. Rest the trance

Please program above operations via programming software.

Low Voltage Prompt

When the batterypack is on low voltage, there will be voice prompt for the lower voltage, at this time, the backlight flashes every five seconds and the transceiver sounds out "click" to remind of being charged timely.

Transmitting Overtime Prompt

When the transmitting time is exceeding the preset time, there will be an alarm to remind of the overtime transmitting, and the transmitting will be paused, if you want to continue transmitting, please press PTT to resume transmitting. (Please see MENU33 about the Time-out timer TOT)

Adding Scanning Channel

NOTE

≫ Only the added scanning channel can be listed to scan.
≫ Editing method: Stricfly via KG-UV6D programming software.

How to Operate

Wire-clone Function

1. Well install the battery into the source radio and the target radio, and then well connect the wire-clone cable of these two radios.
2. Turn ON the target radio.
3. Press the MONI key of the source radio meanwhile turn ON.
4. The RED light of source radio flashing, it means start copying the data.
5. The GREEN light of target radio flashing, it means start receiving the data.
6. After finishing copying, the RED and GREEN light of these two radios went off, and then return to the standby mode.

Working with Repeater

This series of transceiver is available to work with repeater both in Frequency mode and Channel mode, which is programmable through the key board and via the programming software.

Please refer to the following steps about manual programming the channels to work with the Repeater.

a. Set the transceiver work in the Frequency/VFO mode. (If the radio works in channel mode, please press **MENU** + **🔓** key to switch to frequency mode.)
b. Input the Receive frequency through the keyboard. (The Receive frequency of this transceiver is the Transmit frequency of Repeater.)

---

c. Set the related parameter you need for this frequency, like MENU 15-18 CTCSS/DCS, MENU23 Offset parameter, MENU 24 Shift frequency direction and others.
d. Memorize this frequency and the parameter into the specified channel by MENU 27.
e. Repeating above settings to set the Transmiting Memory.

NOTE ⚠

» After setting the Offset frequency and the Shift frequency direction of receiving memory, you don't need to memorize the Transmit frequency

After above, the settings to work with repeater are successful.

Switch the working mode to Channel mode, call out this specified channel you have memorized, the transceiver can join in the Repeater.

For example, the Receive frequency of Repeater is 442.850MHz, the Offset frequency is 5.00MHz, the Shift frequency direction is "-", the T-CTCSS is 103.5Hz, the specified channel CH-20. Please see the steps as following:

a. Power on the transceiver, and set it to work in Frenquecy mode.
b. Press **MENU** + **🔓** + **MENU** to set the Frequency step, and then press **MENU** to confirm, finally press **🔓** to return to standby.

How to Operate

c. input the frequency 447850 through the keyboard, and program followings:

» Press ▣▣ + ▣ + ▣ + ▣▣ to select the desired power, and then press ▣▣ to confirm, finally press ▣▣ to return to standby. (Please refer to MENU 4 on Page 16)

» Press ▣▣ + ▣▣ + ▣▣ to select the desired CTCSS code 103.5Hz, and then press ▣▣ to confirm, finally press ▣▣ to return to standby. (Please refer to MENU 16 on Page 23)

» Press ▣▣ + ▣▣ + ▣▣ to select the desired offset frequency 5.00MHz, and then press ▣▣ to confirm, finally press ▣▣ to return to standby. (Please refer to MENU 24 on Page 33)

» Press ▣▣ + ▣▣ + ▣▣ to select the desired direction "-", and then press ▣▣ to confirm, finally press ▣▣ to return to standby, (Please refer to MENU 25 on Page 35-36)

» Press ▣▣ + ▣▣ + ▣▣ to Memory channel, press ▣ / ▼ key, rotate the channel encoder, or directly input 2+0 through the keyboard to select channel CH-20, and then press ▣▣ to confirm, there is voice prompt "Receiving memory" (if the Voice guide is ON). Finally press ▣▣ to return to standby. (Please refer to MENU 28 on Page 38-39)

After above, the settings for memory channel to work with the repeater is done.

If required editing the repeater's channel name, please press ▣▣ + ▣▣ to switch the working mode to Channel mode. Select the specified channel CH-20, and press ▣▣ + ▣▣ + ▣▣ + ▣▣ to select

---

channel NAME displaying mode, press ▣▣ to confirm, ▣▣ to return to standby. Then press▣▣ + ▣▣ + ▣▣ to edit the channel name. After finishing editing, press ▣▣ to confirm, then finally press ▣▣ to return to standby. (Please refer to MENU 22 on Page 32-34 and MENU 27 on Page 37-38)

How to Use the Intelligent Charger

1. Insert the AC plug into the power grid socket (AC:90-240V), the indicator on the charger flashes, then the charger is in the charging standby mode.
2. Insert the battery into the charger the RED LED is on ,which means that charging is on the progress. It will turn to GREEN when fully charged.

NOTE

» When inserting the exhausted battery into the charger, it will pre-charge the battery in trickling mode, the RED light of charges flashed and lasts 10-20 minutes, then start normal charging with RED light keeping on, it will turn to GREEN when is fully charged.

» Trickle charge the exhausted battery is to protect the Lithium-ion battery.

How to Operate

Programming Guide

1. Download, unzip and install the USB driver according to different PC operating system.
2. Restart the computer, it shows that the driver is installed successfully.
3. Download and unzip the corresponding programming software.
4. Well connected the transceiver and computer with USB cable, then power on the transceiver.
5. Read from the transceiver to check the connection.
6. Set the desired data on the software, then write to the transceiver.

NOTE ⚠

>> The USB driver of Windows XP / 2000 and Windows 7 & Vista is not compatible, please download the matching drivers according to your PC system.

>> If Failed Connection? displays when reading from the transceiver, please re-check the first four steps as well as the communication ports.

>> Please note, once well done the first three steps, the com port will be selected automatically. However, as the different computer settings, sometimes you should re-set the com port, in this case, please select the correct com port from the device manager according to the port assignment.

>> If the connection is still failed, try to use another cable or another transceiver on another computer to double check.

>> For more details, kindly contact your nearest dealer.

Trouble Shooting

Before confirmed the transceiver with real problems, kindly check the possible problems according to the following chart. If the problems come out all the time. Please RESET the transceiver, it will solve some incorrect operations. And, try to get some help from the experienced technician or contact your supplier.

Problem	Solution
The transceiver can not be powered on.	**1.** The battery may be exhausted, please change the new battery or re-charge it.
	2. The battery was not installed correctly, pls re-install.
The battery life is too short to use.	**1.** The battery life is over, please change a new battery.
	2. The battery is not fully charged.
The receiving lights keep flashing, but there is no sound coming out.	**1.** Make sure that the volume is the highest.
	2. Make sure that the CTCSS/DCS settings are the same as the transmitting transceiver.
It seems that the keyboard does not work.	**1.** Make sure that the keypad is locked or not.
	2. Make sure that the keys are not stuck.

Problem	Solution
In standby, the transceiver will transmit automatically even the PTT key is not pressed.	Make sure VOX function is ON or not, and its level is set too low or not.
Some functions can not be stored normally.	Please confirm if the transceiver is working in channel mode, since some functions are ONLY set in channel mode via programming software.
There are other disturbed signals or noice(from other groups) in the channel.	Please change the CTCSS/DCS frequencies set in your group.

Technical 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

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	D464N
13	D071N	28	D155N	43	D251N	58	D343N	73	D465N
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

Frequency Range	76-108 MHz (Rx)
	136-174MHz & 406.1-512MHz (Rx / Tx).
Memory channel	199 channels
Operating Voltage	7.4V
Operating Temperature	-30℃ to + 60℃
Working Mode	Co-channel or Dis-channel simplex
Output Power	VHF: 5W / UHF:4W
Modulation	F3E(FM)
Max. Frequency Deviation	< ±5KHz
Spurious Radiation	< -60dB
Frequency Stability	±2.5 ppm
Receive Sensitivity	< 0.2 μV
Audio Output power	> 500mW
Waterproof	IP55
Dimension	65 X 119 X 39.5 (mm)
Weight	253g

NOTE ⚠

≫ Specifications are subject to be updated without prior notice.

58

Optional Accessories

Professional FM Transceiver

Six-way charger	1700mAh Li-ion batterypack	"AA" battery case	Eliminator
Car charger	Programming software	USB programming cable	Wireclone cable
Headset	Speaker/Mic	Leather case	(SL16) (BNC) Antenna adapter

59

English Version: KG-UV6D-1203-V3

DECLARATION OF CONFORMITY

We, Quanzhou Wouxun Electronics Co.,Ltd.
No.928 Nanhuan Road,Jiangnan High Technology Industry Park,Quanzhou,
Fujian 362000,China,

declare that our product:

Product Description: Two-way Radio
Brand: WOUXUN
Model: KG-UV6D

is in compliance with the essential requirements and other relevant provisions of the R&TTE directive 1999/5/EC and carries the CE mark accordingly.
Supplementary information:
The product complies with the requirements of:

Low Voltage Directive 2006/95/EC
-EN 60950-1: 2006+A11:2009+A1:2010

Efficient use of frequency spectrum
-ETSI EN 300 086-1 V1.1.1(2008-09)
-ETSI EN 301783-2 V1.1.1 (2008-09)

EMC Directive 2004/108/EC
-ETSI EN 301 489-1 V1.8.1 (2008-04)
-ETSI EN 301 489-15 V1.2.1 (2002-08)

Date: June 16, 2010
Place: Quanzhou,Fujian,China
Name: Danny Chen
Signature: *Danny Chen*

Quanzhou Wouxun Electronics Co.,Ltd.
Add:No.928 Nanhuan Road,Jiangnan High Technology Industry
Park,Quanzhou,Fujian 362000,China
Tel:+86 595 28051255   Fax:+86 595 28051267
http://www.wouxun.com