Thanks for buying a **Swouxun** transceiver.

This transceiver offers the latest design, enhanced features, solid performance and easy accessibility. We believe you will be pleased with the high quality and reliable features for all your communication needs.

Warning riangle

- >> Please do not use the transceiver when you are in explosive areas (such as gas, dust, smoke, etc.)
- >> Please turn off the transceiver while your car is being refueled or parked at a gas station.

User Safety, Training, and General Information

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR

Compliance with RF Energy Exposure Standards

Your **Sucusion** 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 **Swouxun** 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 subpart 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 the antenna

pointing away from the head.

Body-worn operation

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

Antennas & Batteries

- Only use the **Swouxun** -approved, supplied antenna or a **Swouxun** approved relacement antenna.
- Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.
- Only use the **Successor** approved, supplied batteries or a **Successor** approved replacement batteries.
- Use of non- **Swouxun** -approved batteries may exceed FCC RF exposure guidelines.

Approved Accessories

For a list of **Swouxun** - approved accessories, see the accessories page of this user manual or visit the following website for a list of 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 \triangle

- >> It is important that the operator is aware of and understands the hazards common to the operation of any transceiver. Turn off your transceiver while refueling, parked at gasoline service stations, or when in explosive areas (gases, dust, fumes, etc.)
- >> If you require this equipment to be modified, please contact **Swouxun** or your **Swouxun** dealer.

FCC Caution:

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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

The user of this equipment must must be licensed through the Federal Communications Commission. Your **Guouxun** 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 should 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 while parked at a gas station.

Do not modify or adjust this radio without permission.

Do not expose the radio to direct sunlight over a long period of time, or place it close to a heating source. Do not place the radio in excessively dusty, humid areas, or 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, **Swouxun** 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.

No.928 Nanhuan Road, Jiangnan High Technology Industry Park, Quanzhou, Fujian 362000, China

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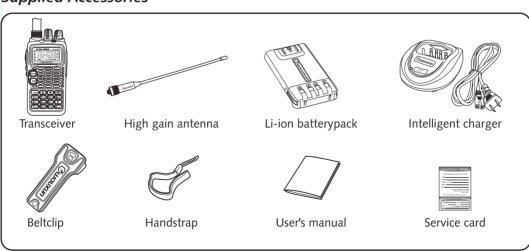
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Unpacking and Checking the Equipment



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 **Owouxun** dealer.

Supplied Accessories



Description of Functions

- 1. Dual Band, Dual Frequency, Dual Display and Dual Standby
- 2. Frequency Range (may vary for different countries or areas):

 136-174MHz&400-520MHz(RX/TX)
 136-174MHz&400-480MHz(RX/TX)

 136-174MHz&420-520MHz(RX/TX)
 136-174MHz&420-470MHz(RX/TX)

 136-174MHz&230-260MHz(RX/TX)
 136-174MHz&230-260MHz(RX/TX)

 136-174MHz&230-260MHz(RX/TX)
 144-146MHz&430-440MHz(RX/TX)

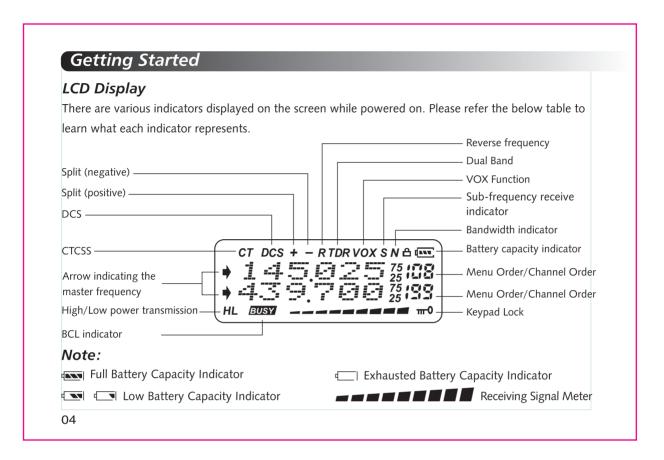
FM:76-108MHz

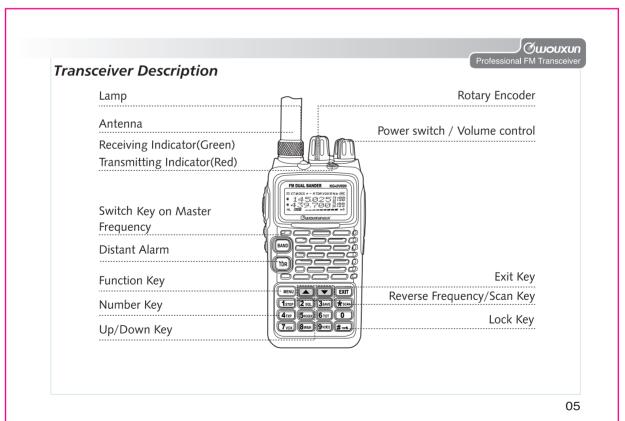
- 3. Output:5W VHF/4W/UHF
- 4. 199 memory channel
- 5. DTMF Encoding and Decoding
- 6. DTMF Transmitting Time Controllable
- 7. ANI(caller ID)
- 8. VOX
- 9. All Callls, Group Calls and Selective Calls
- 10. 1750Hz Burst Tone
- 11. Distant Urgency Alarm
- 12. Digital FM Radio
- 13. Calling Ring
- 14. 105 groups DCS/50 groups CTCSS
- 15. Voice Guide(English/Chinese)
- 16. Wide/Narrow Bandwidth selectable(25KHz/12.5KHz)

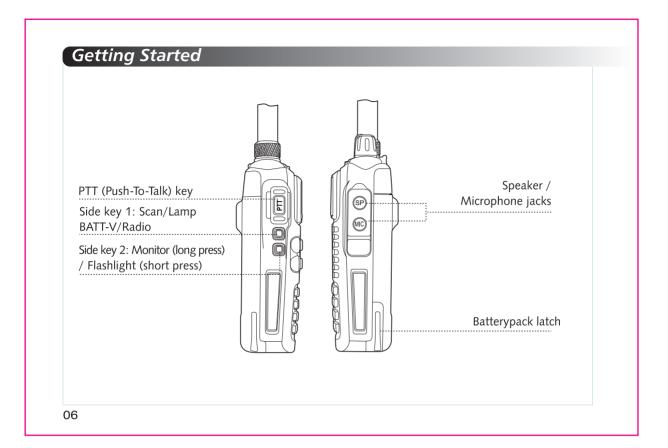
02



- 17. Auto Backlight
- 18. Super-bright Flashlight
- 19. Channel Number, Channel Frequency, Multi-editable Channel Name
- 20. Reverse Frequency
- 21. Multi Scanning
- 22. Priority Scanning
- 23. Frequency Step Selectable(5/6.25/10/12.5/25/50/100KHz)
- 24. High/Low Power Selectable(VHF:5W/1W, UHF:4W/1W)
- 25. High Battery Capacity
- 26. Intelligent Charging
- 27. Setting Frequency Shift
- 28. Busy Channel Lockout
- 29. Multi Display Modes when Power On(Full Screen/Batt-V/Others)
- 30. Low Voltage Battery Prompt
- 31. Transmitting Overtime Prompt
- 32. Keyboard Lock(Auto/Manual)
- 33. Adding Channel to Scan
- 34. High/Low Power Switchable when Transmitting
- 35. PC Programmable
- 36. Wire Cloning
- 37. Menu/Channel Reset
- 38. IP55 Waterproof







Getting started

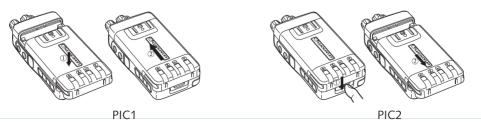


■ Installing/Removing batterypack

The batterypack is not fully charged before leaving factory. Please charge it before use.

NOTE \land

- $\ensuremath{\gg}$ Do not shortcircuit the terminals or put the batterypack into fire.
- » Do not try to remove the case from the batterypack.
- 1. Please aim the batterypack at the back of the transceiver, and then push up and press down the batterypack to lock the release latch. (PIC1)
- 2. If you want to remove the batterypack, push down the release latch and remove up the batterypack from the transceiver. (PIC2)



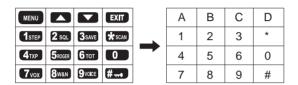
Getting Started

Quick Search

When setting function parameters, press the or key one time to scroll through parameters. Press and hold the or key to scroll quickly.

DTMF encoding

This transceiver is with DTMF encoding function. Please press number keys or function keys directly. The corresponding DTMF code will be transmitted. Number keypad and DTMF encoding are homologous as following:



■ A/B Switch

Press to select the master frequency (without the arrowhead mark) is the master frequency, while the other frequency (without the arrowhead mark) is the sub frequency. The transceiver can transmit and receive on the master frequency, but ONLY receives on the sub frequency. While receiving on the sub frequency, the "S" indicator appears on the display.

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Getting started



■ TDR Key (PF2)

- 1. Short press TDR to switch between Single Band and Dual Band.
- 2.Long press TDR to activate ALARM function.
- 3. Press MENU + TDR to switch the working mode(VFO and Channel Mode).
- 4. When pressing PTT to transmit, press at the same time to switch between High and Low Power casually.

■ #... Key

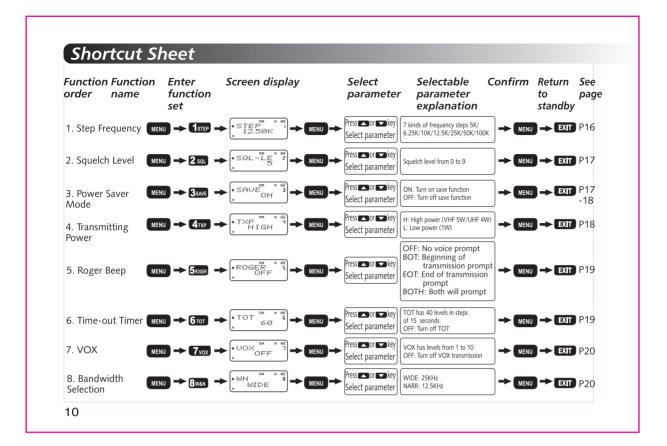
Long press # key for 2 seconds to lock or unlock the keyboard.

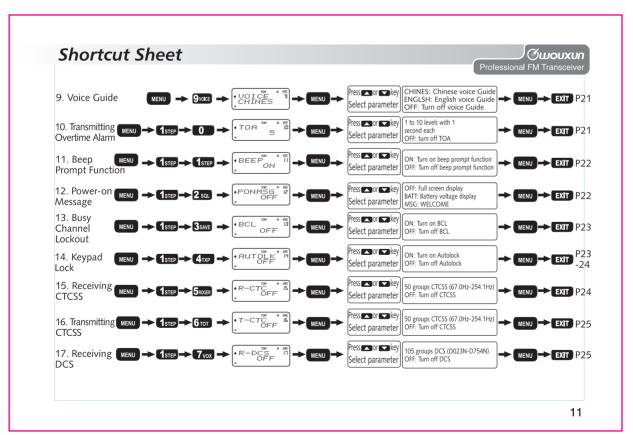
■ 1750Hz Burst Tone

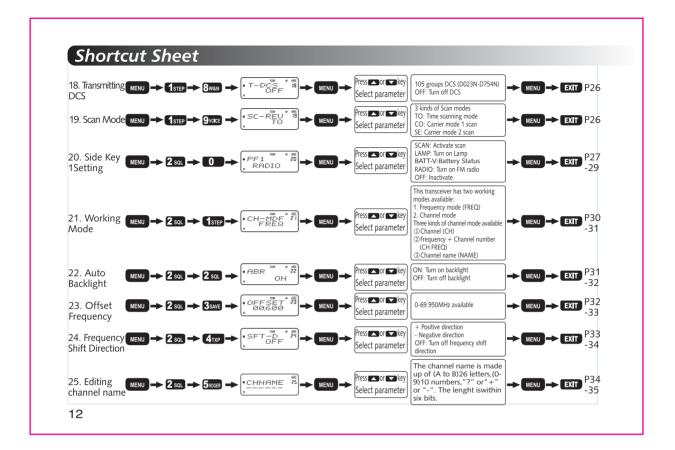
This transceiver supports a 1750Hz Burst Tone function, required by some repeaters.

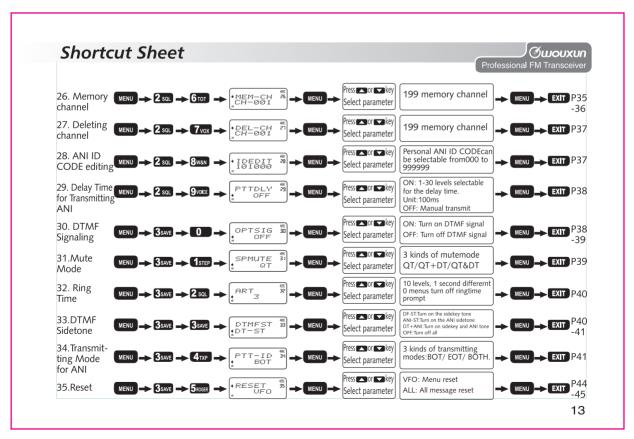
Usage:

In standby mode, simultaneously press both PTT and PF1 side keys to transmit the 1750Hz burst tone. The burst tone will continue to be transmitted until the keys are released.









Shortcut Sheet

- Quick Search 🔼 / 🔽 (See page 08)
- High/Low power setting (See page 18)
- All Calls, Group Calls, Selective Calls (See page 42-44)
- Setting reverse frequency (See page 46)
- Setting transmitting overtime prompt (See page 48)
- Wire-clone function (See page 47)
- Programming guide (See page 52)
- 1750Hz Burst Tone (See page 09)
- Priority scan function (See page 46)
- Low voltage prompt (See page 47)
- Adding scanning channel function (See page 47)
- Working with repeaters (See page 48-51)

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How to operate



Menu Lock Function

The menu may be locked via the programming software:

- 1. Set channel mode as the working mode.
- 2. Turn off the operating menu function in the channel mode (untick 'Menu Available' in Channel Mode column).

If you want to unlock the key, 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 mode, the screen shows "TDR". The frequency with the arrowhead mark is the master frequency while the one without the arrowhead mark is the sby frequency. When the sub freuquency is receiving, the "S" indicator is shown on the display. In dual standby mode, the transceiver ONLY transmits the master frequency and receives on the sub frequency.
- >> Master Frequency Setting
 In dual standby mode, press BAND to select the master frequency.
- >> This transceiver is a 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 parameters in both channels at the same time.

- >> In frequency/channel mode, the transceiver may be switched between band A and band B by pressing the key. ALL operations affect the band shown by the A/B indicator.
- >> In frequency mode, frequency step, transmitting power, squelch level, bandwidth, CTCSS, DCS, offset frequency, frequency shift direction and channel display modes may be set independently for bands A and B.
- >> In channel mode, frequency step, transmitting power, CTCSS, DCS, bandwidth, offset frequency, and frequency shift direction functions may not be independently set for bands A and B.

Step Frequency (STEP) ---- MENU 1

In standby, press NENU + 1step , the screen displays STEP TO 12.50K

Press wenu 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:

5.00KHz, 6.25KHz, 10.00KHz, 12.50KHz, 25.00KHz, 50.00KHz and 100KHz.

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

Squelch level is used to control the level of a received signal required to hear audio output from the transceiver. When squelch level is set too high, weaker signals may be missed. When squelch level is set too low, needless signals may be heard.

NOTE <u></u>

>> The squelch level for this transceiver has 0-9 levels. 0 turns off the squelch function. Higher squelch levels require stronger received signals to activate the receiver.

In standby, press [MENU] + 2 sql , the screen displays [*SQL-LES"?

Press MENU to enter, it shows '5', press / To select the desired squelch level, then press MENU 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 deactivated/reactivated cyclically, in order to reduce battery consumption.

In standby, press (MENU) + (3-SAUE), the screen displays (SAUE) (SAUE) (SAUE)

Press Level to enter, it shows 'ON', press / To select turn ON/OFF the power saver funtion.

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

Transmitting Power (TXP) ---- MENU 4

In frequency mode, press + 4ne , the screen displays * TXP HIGH

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

NOTE 🔨

>> This transceiver has HIGH and LOW transmitting power settings:

VHF: HIGH: 5W LOW: 1W UHF: HIGH: 4W LOW: 1W

>> The transmitter may be quickly (and temporarily) toggled between HIGH/LOW output power. While in transmitting mode, press to toggle the output power. When transmitting stops, the transceiver will revert to the original output power.

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Roger Beep (ROGER) ----- MENU 5

This function selects the prompt mode when beginning/ ending transmitting as follows:

OFF: The transceiver will not prompt when pressing or releasing PTT.

BOT: The transceiver will prompt when pressing PTT (beginning of transmission).

EOT: The transceiver will prompt when releasing PTT (end of transmission).

BOTH: The transceiver will prompt when pressing and releasing PTT (beginning and end of transmission).

In standby, press NENU + 5000 , the screen displays ROGER 'S

Press NENU to enter, it shows 'OFF', press to select OFF/BOT/EOT/BOTH, then press NENU to confirm, finally press XIII to return to standby.

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

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

The Time-out Timer may be set from 15 to 600 seconds, in 15 second intervals.

In standby, press MENU + GTOT, the screen displays TOT 60

Press Lo enter, it shows '60', Press 🔼 / 🔽 to select the desired Time-out Timer value, then press

to confirm, finally press **EXIT** to return to standby.

VOX (VOX) ---- MENU 7

This transceiver will switch to transmitting mode when a voice signal is detected.

The transmitting operation will be somewhat delayed, and the voice signal may be not transmitted at the beginning, since there is some time before the VOX circuit detects the voice signal.

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

NOTE /

» A higher VOX level requires a higher voice level for transmission.

>> In SCAN and RADIO modes, the VOX function is not available, but the VOX indicator will still appear on the display.

Bandwidth Selection (WN) ----- MENU8

In standby, press MENU + 8 wan , the screen displays WHOLE

Press MENU to enter, it shows 'WIDE', press 🔼 / 🔽 to select WIDE/NARROW bandwidth, then press

MENU to confirm, finally press EXIT to return to standby.

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Professional EM Transceiver

Voice Guide (VOICE) ----- MENU 9

In standby, press NENU + 9 NOTE , the screen displays OF STANDERS OF STANDERS

Press NENU to enter, press / To select Chinese, English or OFF, and then press key to confirm, finally press EXIT to return to standby.

NOTE \land

>> Please turn off MENU 9 and MENU 11 at the same time to turn off all the voice prompts for this transceiver.

Transmitting Overtime Alarm (TOA) ----- MENU 10

The TOA may be set from 1 to 10 seconds. The TOA alarm will sound a beep and the LCD will continue to flash. For example, a TOA setting of 5 will sound an alarm 5 seconds before the end of TOT preset time.

In standby, press MENU + 1step 0 , the screen displays (*TOA TOE 5

Press MENU to enter, it shows '5', press / to select OFF/1~10 Level, then press MENU to confirm, press finally EXIT to return to standby.

Beep Prompt Function (Beep) ----- MENU 11

The beep prompt is used to indicate transceiver operating confirmation, error status, or faulty conditions. It is recommended that this function remain ON in order to detect error conditions.

In standby, press MENU + (1step (1step), the screen displays (BEEF) ON

Press velocities to enter, it shows 'ON', press 🔼 / 🔽 to select turn ON/OFF the beep prompting function,

then press MENU to confirm, press finally 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 for the power on message:

OFF: display the full screen

BATT-V: display the current battery voltage

MSG: display 'WELCOME'

In standby, press MENU + 1step 2sol , the screen displays PONMES E

Press wenu to enter, it shows 'OFF', press / To select OFF/BATT-V/MSG, then press to confirm, finally press EXIT to return to standby.

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Busy Channel Lockout (BCL) ---- MENU 13



This function is to prevent interference from other communicating channels. When the selected channel is occupied by others, press PTT and there will be an alarm prompt for BCL. When PTT is released, the alarm prompt stops the transceiver reverts to receiving mode.

In frequency mode, press MENU + 1step 3sAVE , the screen displays + BCL OFF

Press NENU to enter, it shows 'OFF', press / vo select ON/OFF this function, then press NENU to confirm, finally press EXIT to return to standby.

Keypad Lock (AUTOLK) ----- MENU 14

The keypad may be set to auto (AUTOLK) or manual locking.

ON: When AUTOLK is on, and there are no operations for 15 seconds, the keypad will be locked automatically. Press #... for more than 2 seconds to unlock the keypad.

OFF: When AUTOLK is off, the keypad may be locked manually.

NOTE <u>∧</u>

>> To manually lock the keypad while in standby mode, press for more than two seconds. Repeat this operation to unlock the keypad.

In standby, press MENU + 1step 4TXP , the screen displays HAUT OFF " N

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.

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

CTCSS/DCS can be used to receive specified individual or group calls, and avoid needless reception from others on the same frequency. Only upon receiving the same CTCSS/DCS signals, will the transceiver release the squelch.

In frequency mode, press NENU + 1step 5,000 , the screen displays R-CTOFF

Press MENU to enter, it shows 'OFF', press / v to turn OFF this function or select 67.0Hz to 254.1Hz CTCSS code, then press NENU to confirm, finally press EXIT to return to standby.

NOTE 🛆

>> This transceiver has 50 CTCSS group settings. See Appendix (1): CTCSS frequency sheet.

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

In standby, press $(T-CT_{OFF}^{\infty})$ + $(T-CT_{OFF}^{\infty})$, the screen displays $(T-CT_{OFF}^{\infty})$

Press NEW to enter, it shows 'OFF', press A / V to turn OFF this function or select 67.0Hz to 254.1Hz

CTCSS code, then press NEW to confirm, finally press EXIT to return to standby.

NOTE /

>> This transceiver has 50 CTCSS group settings. see appendix (1) CTCSS frequency sheet.

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

Press NENU to enter, it shows 'OFF', press / to turn OFF this function or select D023N to D754l DCS code, then press NENU to confirm, finally press XIII to return to standby.

NOTE \land

- \gg This transceiver has 105 DCS group settings, 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 mode, press NENU + 1step (8wax) , the screen displays (* T-D SFF * 8

Press rivers to enter, it shows 'OFF', press 🔼 / 🔽 to turn OFF this 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 DCS group settings, 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.

Scanning Mode (SC-REV) ----- MENU 19

This transceiver has three scan modes:

TO: The transceiver continues scanning if there are no operations 5 seconds after receiving signals.

CO: The transceiver pauses scanning when receiving signals, and continues scanning 3 seconds after the signal disappears.

SE:The transceiver stops scanning when receiving signals.

In standby mode, press MENU + 1step 9voke , the screen displays (*SC-REV ** TS

Press wenu to enter, it shows 'TO', press / To to select TO/CO/SE scan mode, then press to confirm, finally press to return to standby.

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SCAN / LAMP / BATT-V / FM Radio Function on Side Key 1 ---- MENU 20

There are four functions which may be assigned to side key 1 of this transceiver:

SCAN: Scan function LAMP: Lamp function BATT-V: Battery Status

RADIO: FM radio function OFF: Disable this side key

1. SCAN function:

In standby mode, press Side key 1 enter to activate scanning (scan mode can be set through MENU 19 -Scan Mode Setting), while press any keys to stop scanning in scan mode.

In standby mode, press + 2 = 0, the screen displays + 2 = 0, the screen displays

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 mode, press Side key 1 to turn on the Lamp, and press this key again to turn it off.

In standby mode, press + 2sq , the screen displays $+ PF1^{max} + RRDIO$

Press we to enter, press / to select LAMP, then press to confirm, finally press to return to standby.

3. BATT-V:

In standby, press PF1 to activate BATT-V function to check the battery voltage status of the transceiver. Press any key to exit from this function.

In standby, press MENU + 2sol 0 , then screen displays PF1 TO CHOOSE BATT-V, the screen displays PF1 TO CHOOSE BATT-V, the screen displays PF1 TO CHOOSE BAND A or Band B, then press MENU to confirm, finally press EXIT to return to standby.

4. RADIO function:

Tuning FM radio stations: In radio mode, press ********, the radio begins tuning the stations automatically and the green light flashes until the search is complete.

You can press / To manually tune radio stations.

• Storing a radio station: After detecting a radio station, press well, the screen displays station will be stored into the transceiver for future use.

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The transceiver has two groups of storage available. The default group is the first storage area.

E.g. If you want to store 88.1MHz into the 1st group Channel 8, tune the desired frequency (88.1MHz) while in radio mode, press (88.1MHz) to store it into storage area 1, channel 8. If you want to store this frequency into the 2nd group Channel 8. In radio mode, when tuning the desired radio station, press then the screen will display (18.188). At this time, press (18.188) to store this station into the 2nd group Channel 8.

In radio mode, press 1 to 9 key to select the stored station to listen to, press the key to switch between the first and second storage areas.

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

NOTE <u></u>

- >> When in FM radio mode, the current frequency or channel is in standby. When a received signal is detected, the transceiver will automatically switch to receiving/transmitting mode. Five seconds after the signal disappears, the transceiver will switch back to radio mode.
- >> In FM radio mode, press FXIT to revert to the current standby frequency, and press PTT to transmit. Five seconds after transmission, the transceiver will revert back to radio mode.

Working Mode (CH- MDF) ----- MENU 21

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)

NOTE /↑

- >> It is possible to switch between frequency and channel modes manually or via the programming software. If desired, a password may be set for mode switching.
- >> The password for mode switching may only be set via the KG-UV899 programming software.
- >> The password consists of 6 digits, while "000000" means no password is needed for mode switching.

Frequency mode (FREQ) and Channel mode switchable

- ① Without password input
 - In standby, press MENU + 2sq. 1step , then press / v to choose working mode and finally press MENU to confirm.

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② With password input

Please set the password for mode switching via the KG-UVD1P programming software. A valid password consists of 6 digits from 0 to 9 (except "000000").

In standby, press MENU + 2sq. 1step , then press / v to choose one of FREQ/NAME/CH/CHFREQ.

Press MENU to confirm, then the screen will display the password input (CH-MODE) . Please input the preset password through the keypad, then the transceiver will switch to the selected mode.

NOTE /

>> At least one channel is stored ahead into the transceiver, so that the above settings for the mode switch is workable.

Quickly switch between frequency and channel modes (CH).

In standby, press wever + TDR key to switch the mode. Without password input, you can switch it directly, otherwise you need to input the valid password.

Auto Backlight (ABR) ----- MENU 22

In standby, press MENU + 2sol 2sol , the screen displays OH OH

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 \triangle

>> When the ABR function is set ON, the backlight will not be activated in transmitting/receiving mode or when pressing side key 2. Otherwise, operating on the keypad or the side key 1 will activate the backlight automatically.

Offset Frequency (OFF-SET) ----- MENU 23

The offset frequency is the difference between the transmitting and receiving frequencies. The range of the offset frequency for this transceiver is from 0 to 69.950MHz.

In standby mode, press MENU + 2sal 3swe , the screen displays + OFF SET | SOFF SET | SOF

Press NEW to enter, then press / To select the listed offset frequency, or manually input through the keypad directly. Press NEW to confirm, press EXIT return to standby.

In order to transmit and receive in different frequencies, it is necessary to set the offset frequency and the frequency shift direction in the frequency mode.

Please follow these steps:

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

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

In Frequency mode, input (47xP) 5 MOSER (0) (0) 2 SQL 5 MOSER then press (MENU) + (2xQL) + (47xP) + (MENU) + (47xP) + (47xP)

The screen displays [1478825], press PTT to transmit and the screen displays [1478825].

Release PTT and the screen displays [1478825] This indicates that the receiving frequency is [1478825] while the transmitting frequency is [1478825].

Frequency Shift Direction (SFT-D) ----- MENU 24

There are three selections for the frequency shift direction settings:

- 1. Plus shift (+): the transmitting frequency is higher than the receiving frequency.
- 2. Minus shift (-): the transmitting frequency is lower than the receiving frequency.
- 3. Turn off this function.

In standby mode, press + 2sa 4xp , the screen displays -5FT - 5FT - 70FF

Press NENU to enter, press A / To select +/-/OFF, then press NENU to confirm, finally press EXIT return to standby.

Editing Channel Name (CHNAME) ----- MENU 25

When editing channel names:

- 1. Valid characters are A-Z and 0-9
- 2. Maximum name length is 6 characters
- 3. When manually editing, "-" means that this character is blank.

Editing methods:

- 1. Via the KG-UV899 programming software.
- 2. Directly through the keypad.

When editing the channel name:

- 1. store at least one channel into the transceiver.
- 2. place into channel mode.
- 3. Enter NENU + 2sa. 5xxxx CHNAME, press #--- key to switch the character status(Capital, Lowercase and Special Symbols) while press 🔼 / 🔽 key to selected expected character. Press 🗱 key to select the editing location.

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Editing steps:

- 1. Store the desired channel into the transceiver. Please refer to the Memory Channel (MEM-CH) MENU26.
- 2. If the transceiver works in channel mode with the CH or CHFREQ, please go to MENU 21(CH-MDF) to select NAME mode.
- 3. Select the desired channel, press MENU + 2 SOL + 500589 + MENU, the screen displays "-----". Press
 to select characters and press
 displayed a again to select another digits. After finishing editing the desired name, press wenu to confirm, and press EXIT to exit. The screen displays the edited channel name and the channel number on the upper right corner.

Memory Channel (MEM-CH) ----- MENU 26

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

Input the desired frequency, then press + 2sa 6tor , the screen displays + 2sa 6tor , the screen displays

Press MENU to enter, press 🔼 / 🔽 to select channel, then press MENU to store, with the voice prompt "receiving memory". Press [XIII] 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 on another 35

frequency, then there is another voice prompt "transmitting memory".

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

- 1. In frequency mode, input (47x) 5xxxx (0) 0 2xx , 5xxxx + MENU + 2xx (67x7 + MENU), then press 2xx or / to select CH-20, press to confirm, voice prompt for receiving memory, then press **EXIT** .
- 2. Input 4xx 6tor 0 0 2sq. 5kxx + MENU + 2sq. 6tor + MENU + MENU + VOICE prompt for transmitting memory, then press EXIT.
- 3. The different TX(450.025MHz) and RX (460.025MHz) frequencies were stored to CH-20.

NOTE /

- » If required, the CTCSS/DCS tone DTMF signaling, Power and other parameter should be set prior to the receiving memory, otherwise, it can only store the transmitting frequency.
- >> If the desired channel has aleady been programmed (The programmed channels show as CH-001 while free unused channels appear as 001), please delete the channel before the transmitting and receiving memory. Only when the desired channel is empty, can both the transmitting and receiving memory be stored, otherwise only the transmitting memory can be manually programmed.
- >> It is also possible to set channel memories using the programming software.

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In standby mode, press NENU + 2 SQL 7 YOX , the screen displays + EFL-@GH * 27

Press MENU to enter, and press 🔼 / 🔻 to select the desired channel, then press (MENU) to confirm, After the channel is deleted successfully, press EXIT to return to standby.

Editing ANI ID CODE (IDEDIT)----MENU 28

Press NENU enter, input your desired ANI ID Code directly. And then press NENU to confirm, press **EXIT** to return to standby.

NOTE

» ANI ID code can be edited by 3-6 digits freely. ANI ID code is ranged from 000-999999.

Delay Time for Transmitting ANI(PTTDLY)----MENU29

Setting ANI ID code means the ANI ID code transmitting status when pressing PTT key once to communicate.

- ①1-30: Preset ANI transmitting delay time from 1 to 30. Unit:100ms
- ② OFF: Transmitting ANI ID code manually

In standby mode, press and number keys 2sa. 9was, the screen will display FTTDLY

Press enter, and the screen will display SETTDE . Press / To select PTTDLY function.

Press venue enter, and then press 🔼 / 🔽 to select the allowed delay transmitting time for ANI ID code from 1 to 30. Or select OFF to transmit ANI ID code manually. Press NENU to confirm, then press **EXIT** to return to standby.

DTMF Signaling(OPTSIG)----MENU30

Select if you want to turn on DTMF function. If you select this function, selective calls, group calls and all calls functions are available.

In standby mode, press menu and number keys 3 the screen will display OPTSIG TO THE SCREEN WILL DESCRIPTION OF THE STANDARD OF



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Press MENU enter, and then press 🔼 / 🔽 to select "ON" to turn on DTMF signaling or "OFF" to turn off DTMF signaling. Then press **MENU** to confirm, press **EXIT** to return to standby.

Mute Mode(SPMUTE)----MENU31

The mute mode means the mode of turning on the speaker. There are three options for turning on the speaker:

- QT: When the transceiver receives the signal that is strong enough to open squelch and is matched with CTCSS/DCS, the speaker will be opened. If the transceiver is not set CTCSS/DCS, the speaker will be opened when the transceiver receives the signal that is strong enough to open squelch.
- QT + DT: When the transceiver receives the signal that is suitable for QT conditions and is matched with DTMF signaling, the speaker will be opened.
- QT X DT: When the transceiver receives the signal that is suitable for QT or QT+DT conditions, the speaker will be opened.

In standby mode, press will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster), the screen will display served and number keys (Same 1ster).

Press MENU enter, and then press A / W to select one of QT or QT+DT or QT X DT.

Then press to confirm, and press to return to standby.

Ring Time(ART)-----MENU32

Ringtime setting means the speaker will sound clear ring prompt when receiving correct DTMF encoding signaling.

In standby mode, press MENU and number keys 3 SAVE 2 SQL , the screen will display ART 3

Press enter, and then press / To select ringtime from 0 to 10.

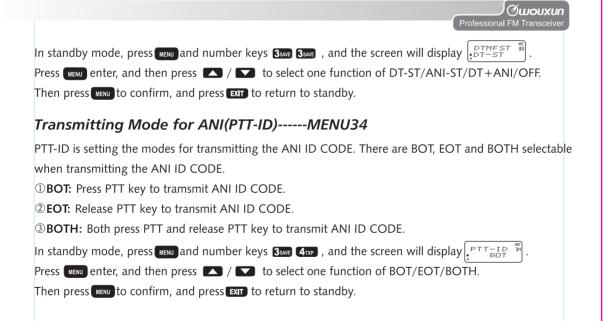
Then press **MENU** to confirm, and press **EXIT** to return to standby.

DTMF Sidetone(DTMFST)-----MENU33

DTMF sidetone setting means if the speaker is turned on when transmitting DTMF signaling and hear the according DTMF tone from the speaker.

There are 4 options as followings:

- ①DT-ST: Key sidetone is turned on when transmitting.
- ②ANI-ST: ANI ID code sidetone is turned on when transmitting.
- ③DT+ANI: Both of key sidetone and ANI ID code sidetone are turned on when transmitting.
- 4 OFF: Turn off all.



All calls, group calls and selective calls

There are ANI ID code transmission, ANI ID code edit and DTMF decoding functions. Without the assistance of the other communication equipments, the all calls, group calls and selective calls are available between the groups.

Before using all calls, group calls and selective calls function, you need to set as followings:

1. ANI ID CODE edit Note: Every transceiver in the same group should be edited a unique ANI ID

ANI ID CODE:ID--XXX(3 digits) ID--XXXX(4 digits) ID--XXXXX(5 digits) ID--XXXXXX(6 digits)

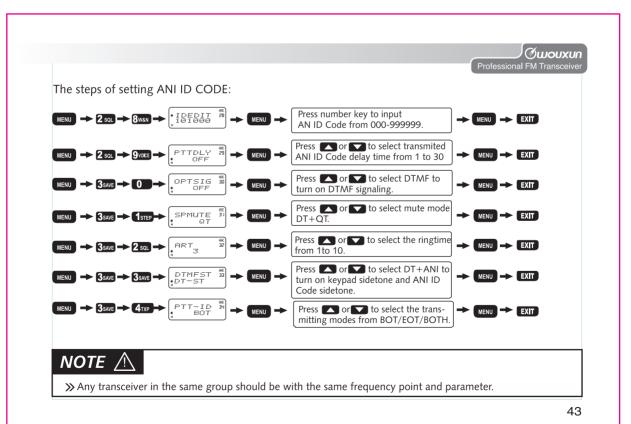
ID ANI ID CODE mark X
I
Group NO. mark

A unique ANI ID CODE

From 1 to 9 group,
Maximum: 9 groups

From 00000~99999,
Maximum:1000000 digits

This is how to set ANI ID CODE.



a. How to use all calls function:

Hold on PTT key to transmit. After transmitting ANI ID Code, input ★★★★ + #★★★ keys directly.

b. How to use group calls function:

Hold on PTT key to transmit. After transmitting ANI ID Code, input "Group NO." ***** + #****

c. How to use selective calls function:

Hold on PTT key to transmit. After transmitting ANI ID Code, input the ANI ID Code of the selective transceiver that you want to speak to.

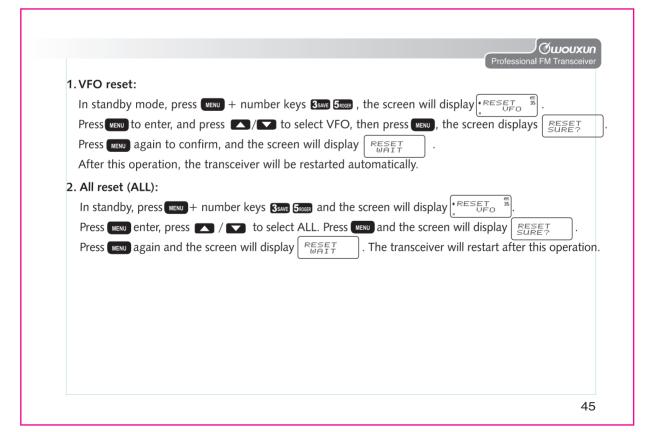
Note: If you press number key to transmit DTMF code while holding on PTT key to transmit, the transmission will be delayed for 2seconds. And then the transmission will stop.

Setting Reset(RESET)-----MENU35

There are two options for the reset operation-VFO reset and ALL reset.

VFO reset means all the functional parameter set in frequency mode resumes to the factory setting.

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



Priority Scan

Priority scan is used to monitor a preferred channel and secondary channels at the same time.

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 following:

When the transceiver detects a signal on the priority channel while scanning, it will recall its frequency. Please program the priority channel via the KG-IV899 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.

How to set the reverse frequency:

In standby mode, press ** to activate this function. Press ** again to switch it off.

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Low Voltage Prompt

When the batterypack is in low voltage, there will be a voice prompt for the lower voltage. At this time, the backlight flashes once every five seconds and the speaker emits a "click" sound to indicate charging is necessary.

Adding Scanning Channels



 \gg The transceiver ONLY scans the channels listed in the SCAN ADD of the KG-UV899 programming software.

Wire-clone Functiton

- 1. Install batteries into the source and target radios and connect the wire-clone cable between them.
- 2. Turn ON the target radio.
- 3. Press the MONI key of the source radio while powering it ON.
- 4. The RED light of source radio flashes, indicating data is starting copying.
- 5. The GREEN light of target radio flashes, indicating data is being received.
- 6. When copying is complete, the red & green lights will stop flashing and the radio will return to standby mode.

Transmitting Overtime Alarm

When the transmission time exceeds the preset time, an alarm will sound to indicate overtime transmitting, and transmitting will be paused. Press PTT to resume transmitting. (Please see MENU 6: Time-out timer TOT).

Working with Repeaters

This series of transceiver will operate with repeaters, both in frequency mode and Channel mode, which is programmable through the keypad and via the programming software.

Please refer to the following steps to manually program the channels to work with the Repeater.

- a. Set the transceiver to the Frequency/VFO mode. (If the radio is in channel mode, please press MENU + TOR key to switch 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 parameters required for this frequency, like MENU 15-18 CTCSS/DCS, MENU 23 Offset frequency, MENU 24 Shift frequency direction and others.
- d. Store this frequency and parameters into the specified channel by MENU 26.

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

The radio is ready to operate with a repeater.

Switch the working mode to Channel mode, recall the memorized channel. The transceiver can operate with the Repeater.

For example, the Receive frequency range of the 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 follow these steps:

- a. Power on the transceiver, and set it to work in Frequency mode.
- b. Press MENU + 1STEP + MENU to set the Frequency step. Press / key to select the desired frequency step, and then press MENU to confirm, finally press EXIT to return to standby.
- c. Input the frequency 447850 through the keyboard, and program followings:

Press MENU + 0 + 4TXP + MENU to set the Transmitting Power. Press A / W key to select the desired power, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 4 on Page 18)

Press MENU + 1step + 6TOT + MENU to set the T-CTCSS. Press / Very to select the desired CTCSS code 103.5Hz, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 16 on Page 25)

Press MENU + 2 SQL + 3 SAVE + MENU to set the Offset frequency. Press / key to select the desired offset frequency 5.00MHz, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 23 on Page 32-33)

Press MENU +2sol + 41XP + MENU to set the Shift frequency direction. Press / key to select the desired direction "-, and then press MENU to confirm, finally press EXIT to return to standby. (Please refer to MENU 24 on Page 33-34)

Press MENU + 2sol + Gror + MENU to Memory channel. Press / wey, rotate the channel encoder, or directly input 2+0 through the keyboard to select the specified channel CH-20, and then

press to confirm, there is voice prompt "Receiving memory" (it prompts when the Voice guide is ON.). Finally press to return to standby. (Please refer to MENU 26 on Page 35-36)

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

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If necessary for the channel name editing, please press MENU + TOR to switch the working mode to Channel mode. Select the specified channel CH-20, and then press MENU + 2 SOL + 1 STED + MENU to change the mode to NAME. Press / to select NAME, and then press MENU to confirm, then finally press EXIT to return to standby. Then press MENU + 2 SOL + 5 SOUR + MENU to edit the channel name. Press / to edit the characters of the name, and then press MENU to confirm, then finally press EXIT to return to standby. (Please refer to MENU 21 on Page 30-31 and MENU 25 on Page 34-35)

How to Use the Intelligent Charger

- I. 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 charging is in progress. When the RED LED turns to GREEN, charging is complete.

NOTE \land

>> When an exhausted battery pack is inserted into the charger, it will be pre-charged with trickle power (the RED LED flashes for 10-20 minutes). When the LED turns solid RED, the charger enters normal charging mode. When the GREEN LED turns on, charging is complete.

Programming Guide

- a. Download, unzip and install the USB driver according to your operating system.
- b. Restart your computer, and it should show the driver is installed successfully.
- c. Download and unzip the matching programming software.
- d. Connect the transceiver.
- e. Power on the transceiver and open the software.
- f. Read from the radio to check the connection.
- g. Set parameters and functions as desired.
- h. Write to the radio.

NOTE /

- >> If you get the message "failed connection" when you try to read from the radio, please check the first five steps and the communication ports.
- >> Please note that once the first three steps are completed, the com port will be selected automatically when you open the software. However, according to different computer settings, the com port may need to be reset.
- >> Please determine the port assignment from the device manager of the computer and select the correct communication port.
- >> If the connection is still not OK, please try another cable or another transceiver on another computer to double check.

 Please refer to the detailed manual or the video guide for KG-UV899 programming on the wouxun website: http://www.wouxun.com

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Troubleshooting



Before the transceiver is regarded as being faulty, please double check according to the following chart. If the problems still exists, please reset it and try again or seek assistance from an experenced technician or contact your seller.

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

Troubleshooting

Problem	Solution
In standby, the transceiver will transmit automatically, even when the PTT key is not pressed	If the VOX functions is ON, ensure the VOX level is not set too high.
Some functions can not be stored normally.	Please confirm that the transceiver is working in channel mode, since some functions are ONLY set in freugnecy mode via programming software.
There are disturbing signals or noise (from other groups) in the channel.	Please change the CTCSS/DCS frequencies set in your group.

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Technical Parameters

Professional FM Transceiver

Appendix 1

CTCS	5								`
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

Technical Parameters

Appendix 2

DCS									
1	D023N	22	D131N	43	D251N	64	D371N	85	D532N
2	D025N	23	D132N	44	D252N	65	D411N	86	D546N
3	D026N	24	D134N	45	D255N	66	D412N	87	D565N
4	D031N	25	D143N	46	D261N	67	D413N	88	D606N
5	D032N	26	D145N	47	D263N	68	D423N	89	D612N
6	D036N	27	D152N	48	D265N	69	D431N	90	D624N
7	D043N	28	D155N	49	D266N	70	D432N	91	D627N
8	D047N	29	D156N	50	D271N	71	D445N	92	D631N
9	D051N	30	D162N	51	D274N	72	D446N	93	D632N
10	D053N	31	D165N	52	D306N	73	D452N	94	D645N
11	D054N	32	D172N	53	D311N	74	D454N	95	D654N
12	D065N	33	D174N	54	D315N	75	D455N	96	D662N
13	D071N	34	D205N	55	D325N	76	D462N	97	D664N
14	D072N	35	D212N	56	D331N	77	D464N	98	D703N
15	D073N	36	D223N	57	D332N	78	D465N	99	D712N
16	D074N	37	D225N	58	D343N	79	D466N	100	D723N
17	D114N	38	D226N	59	D346N	80	D503N	101	D731N
18	D115N	39	D243N	60	D351N	81	D506N	102	D732N
19	D116N	40	D244N	61	D356N	82	D516N	103	D734N
20	D122N	41	D245N	62	D364N	83	D523N	104	D743N
21	D125N	42	D246N	63	D365N	84	D526N	105	D754N

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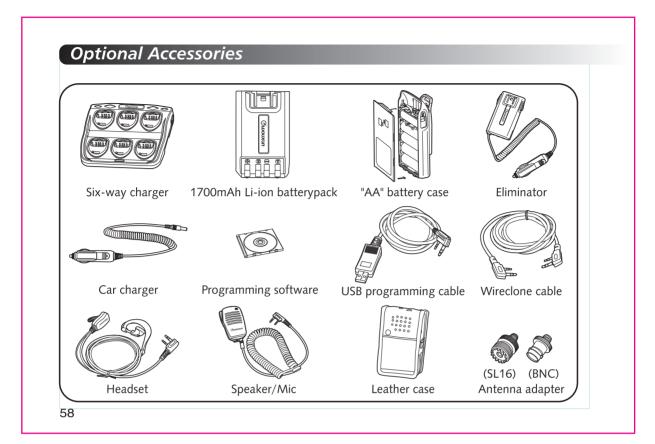
Technical Specifications



Frequency Range (may vary for different countries or areas):	VHF:136-174MHz/245-250MHz/230-260MHz UHF:400-470MHz/400-480MHz/420-520MHz/400-520MHz
Memory Channels	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	±5 ppm
Receive Sensitivity	$< 0.2 \mu\text{V}$
Audio Output power	≥ 500mW
Waterproof	IP55
Dimensions	115x54.5x34(mm)
Weight	218g

NOTE 🔨

» Specifications are subject to change without prior notice.



Announcement



Swouxun endeavors to achieve the acuracy and completeness of this manual, but it may contain omissions or printing errors. All the above is subject to change without prior notice.

English Version: KG-UV899-0225-V1

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-UV899

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.

The product complies with the requirements of: Supplementary information:

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

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

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:

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