Thanks for buying the WOUXUN transceiver.

This transceiver offers latest design, multi-functionality, stable performance and easy operation. We believe you will be pleased with the high quality and dependable features for all your communication needs.

*Note: **Time-out timer**: The selected channel has been programmed for Time-Out timer, you must limit the length of each transmission, Wile transmitting, a beep will sound 10 seconds before time-out. Another beep will sound just before the deadline; The TX indicator will disappear the transmission will cease soon thereafter. To resume transmitting, you must release the PTT switch and wait for the "penalty timer " to expire (if you press the PTT switch before this timer expires, the timer restarts, and you will have to wait another "penalty" period). To ensure that the radio must be used with a maximum operating duty cycle not exceeding 50%, but for VOX mode, the maximum operating duty cycle may be up to 100%.*

User Safety, Training, and General Information

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

Compliance with RF Energy Exposure Standards

Your WOUXUN two-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty cycles of up to 50% talk-50% listen and should be used for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

NOTE ⚠

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

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

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998

Operational Instructions and Training Guidelines

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

Transmit and Receive

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

Hand-held radio operation

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

farther away from your head.

Body-worn operation

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

Antennas & Batteries

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

Approved Accessories

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

Notices to the User

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

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

If you require this machine to be developed or some changed, pleased connect with WOUXUN or your WOUXUN dealer.

FCC Caution:

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

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

Measures:

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

FCC Licensing Requirements

Your radio must be properly licensed Federal Communications Commission prior to use. Your WOUXUN Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.

Precautions

Only qualified technicians are allowed to maintain this product.

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

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

Do not modify or adjust this radio without permission.

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

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

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

CE Caution:

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

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

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

Contents

Unpacking and checking the equipments 01
Supplied accessories 01
Description of Functions 02-03
Getting started 04-08
LCD Display 04
Description of transceiver 05-08
Shortcut Operation Sheet 09-12
How to Operate 13-42
Menu locked Function 13
Setting Frequency Step (STEP) ------ MENU 1 14
Setting Squelch Level (SQL-LE) ------ MENU 2 14-15
Setting Battery Save mode (SAVE) ------ MENU 3 15
Selecting Transmit Power (TXP) ------ MENU 4 15
Setting Begin/End Transmitting Voice Prompt (ROGER) ------ MENU 5 16
Transmit over Timer (TOT) ------ MENU 6 16
Setting VOX (VOX) ------ MENU7 17
Setting Wide or Narrow Bandwidth (WN) ------ MENU 8 17
Setting Voice prompt (VOICE) ------ MENU 9 18

Setting Transmit Overtime Alarm (TOA) ------ MENU10 18
Beep Prompting Function (BEEP) ------ MENU 11 19
Setting Power-on Message (PONMSG) ------ MENU 12 19
Busy Channel Locked (BCL) ------ MENU 13 20
Setting Keypad Locked (AUTOLK) ------ MENU 14 20-21
Setting Receiving CTCSS (R-CTCSS) ------ MENU 15 21
Setting Transmitting CTCSS (T-CTCSS) ------ MENU 16 22
Setting Receiving DCS (R-DCS) ------ MENU 17 22
Setting Transmitting DCS (T-DCS) ------ MENU 18 23
Setting Scan Mode (SC-REV) ------ MENU 19 23
Setting Scan / Lamp / SOS-CH / Radio Function on Side key 1 ------ MENU 20 24-27
Working mode (CH-MDF) ------ MENU 21 28-29
Setting Auto-Backlight (ABR) ------ MENU 22 29
Setting Offset Frequency (OFF-SET) ------ MENU23 30-31
Setting Frequency Shift Direction (SFT-D) ------ MENU 24 31
Setting Stopwatch timer (SECOND) ------ MENU 25 32
Channel Name Edit (CHNAME) ------ MENU 26 32-33

Contents

Setting Memory Channel (MEM-CH) ------ MENU 27 34-35
Deleting Channel (DEL-CH) ------ MENU 28 35
Setting Reset (RESET) ------ MENU 29 36-37
Setting Priority Scan Function 38
Setting Reverse Frequency Function 38-39
Low voltage Battery Voice prompt 39
Transmit Overtime Prompt 39
Adding Scanning Channel 39
Wire clone Function 40
Working with Repeater 40-41
How to Use the Intelligent Charger 42
Trouble Shooting 43-44
Technology Parameter 45-47
Appendix 1 (CTCSS) 45
Appendix 2 (DCS) 46-47
Technology Specification 48
Optional Accessories 49
Announcement 50

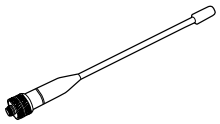
Unpacking and checking of your equipment

Professional FM Transceiver

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

Supplied accessories

Transceiver


High gain antenna

Li-ion batterypack

Intelligent charger

Beltclip

Handstrap

User's manual

Service card

Description of functions

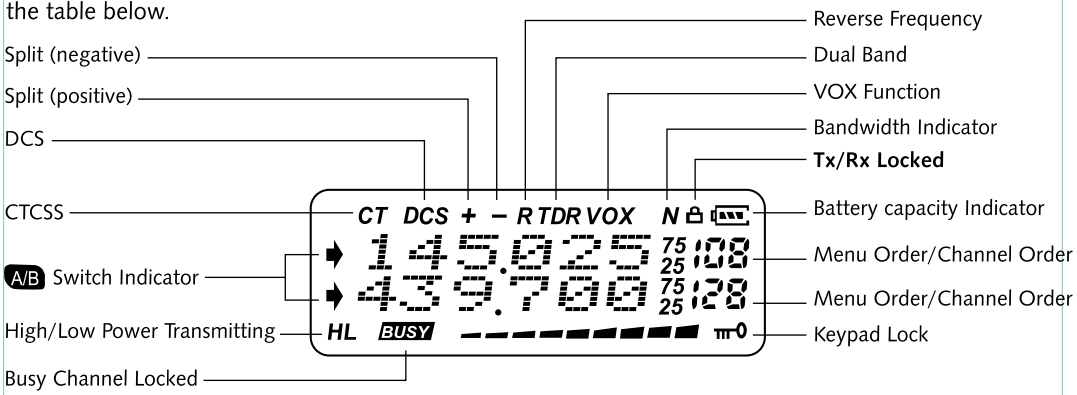
1. Dual Band, Dual Frequency, Dual Display and Dual Standby
2. Frequency Range: 136~174MHz& 406.1~470MHz
3. Working mode: U-V, V-V or U-U available
4. Same channel: VHF T x & UHF Rx or UHF T x & VHF Rx available
5. Output power: 4.2W VHF / 4.2W UHF
6. Memory Channel: 128 channels
7. VOX Function
8. Stopwatch Function
9. 105 groups DCS and 50 groups CTCSS
10. Voice Prompt
11. SOS Function
12. Wide/Narrow Bandwidth selection (25KHz / 12.5KHz)
13. Channel number, Channel + Frequency or Channel name display mode available
14. Reverse Frequency
15. Multi-functional Scan
16. Priority Scan Function
17. Bright Flashlight lllumination

18. Digital FM Radio (76-108MHz)
19. Step (5/6.25/10/12.5/25KHz/50KHz/100KHz)
20. High/Low Power selection(4.2W/1W)
21. High Capacity Li-ion Battery
22. Intelligent Charger
23. Offset Frequency setting (0-69.950MHz)
24. Frequency shift Direction Setting
25. Busy Channel Lockout
26. Power on Display (Battery-V/Full Screen/Other Characters)
27. Low-battery Voice Prompt
28. Start and/or End Transmitting Beep Prompt
29. Transmit overtime Prompt
30. Keypad Locked (Auto / Manual)
31. Add Scanning Channel Function
32. High/Low power switchable when transmitting
33. Computer Programmable
34. Wire-clone Function
35. Menu/Channel Reset

Getting started

LCD display

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



Note:

Batterypack capacity indicator (full)

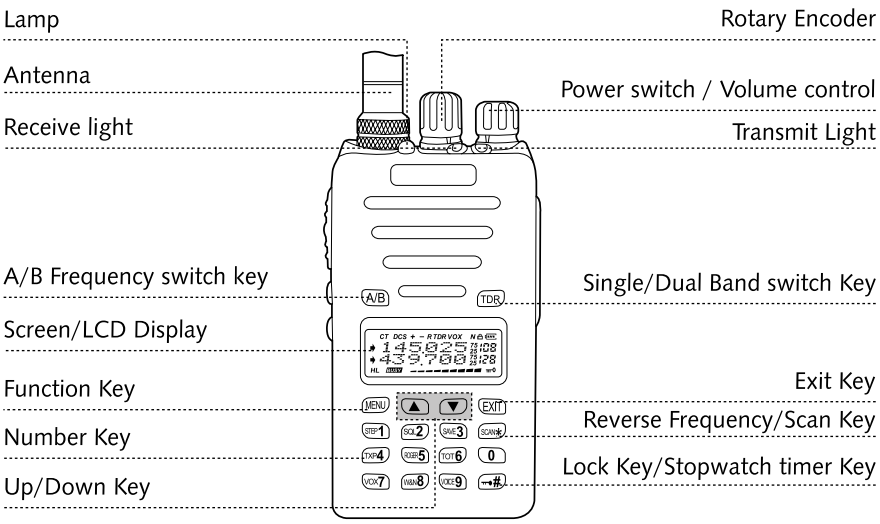
Batterypack capacity indicator (exhausted)

Batterypack capacity indicator (remaining)

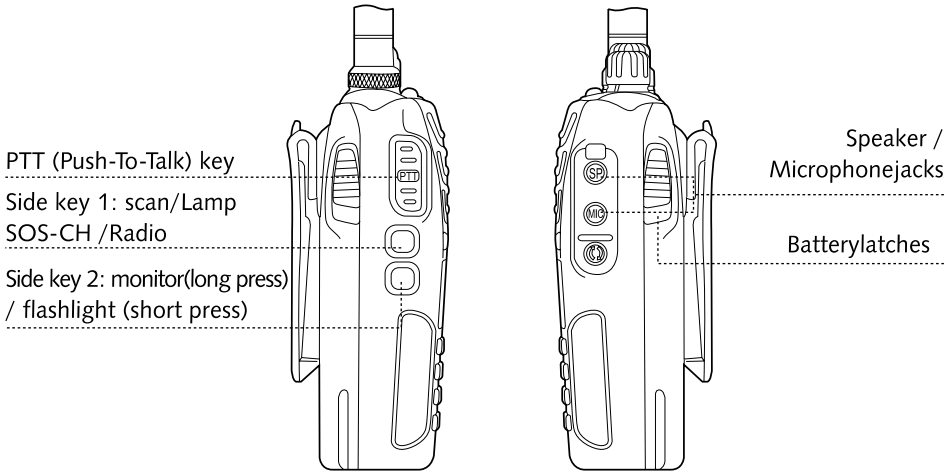
Receive signal meter

Band A only Tx not Rx, Band B only Rx not Tx, Unlock press MENU + TDR

Description of transceiver



Getting started



■ ***Speed Search***

Press ▲ or ▼ key to set each Function or Parameter, it can search quickly.

■ ***Working Mode***

MENU + POWER ON

Channel Mode ---------- Frequency Mode

< < > >

■ ***Single/Dual Band Switch***

Press TDR

Single Band ---------- Dual Band

■ ***A/B Switch***

Press A/B Key

Band A ---------- Band B

< >

■ ***SCAN key***

Press slightly to set Reverse Frequency ON/OFF while press 2 seconds to active scan.

■ ***Side key 2***

Press slightly to turn ON/OFF the lamp while press 2 seconds to set Squelch ON.

1750Hz Burst Tone

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

How to use

In transmitting, press side key PF1, the transceiver transmit 1750Hz Burst tone. The time pressing side key PF1 determined how long will transmit 1750Hz Burst tone. Release side key PF1 to end transmitting 1750Hz Burst tone.

Shortcut operation sheet

WOUXUN Professional FM Transceiver

Function order	Function name	Enter function set	Screen display	Select parameter	Selectable parameter explanation	Confirm	Return to standby	See page
1	Setting frequency step	MENU → STEP 1	STEP 12.50K	MENU	Press ▲ or ▼ key Select parameter	7 kinds of frequency steps 5K/6.25K/10K/12.5K/25K /50K/100K	MENU	EXIT	P14
2	Setting squelch level	MENU → SQL 2	SQL-LE 5	MENU	Press ▲ or ▼ key Select parameter	Squelch level from 0 to 9	MENU	EXIT	P14 -15
3	Setting batterypack savemode	MENU → SAVE 3	SAVE ON	MENU	Press ▲ or ▼ key Select parameter	ON: Turn on save function OFF: Turn off save function	MENU	EXIT	P15
4	Selecting transmit power	MENU → TXP 4	TXP HIGH	MENU	Press ▲ or ▼ key Select parameter	H: High power (VHF 5W/UHF 4W) L: Low power (1W)	MENU	EXIT	P15
5	Transmit voice prompt	MENU → ROGER 5	ROGER OFF	MENU	Press ▲ or ▼ key Select parameter	OFF: turn off this function,without any voice prompting. BOT: press PTT, voice prompt when begin transmitting EOT: release PTT, voice prompt when end transmitting BOTH: press and release PTT,voice prompt	MENU	EXIT	P16
6	Transmit overtimer	MENU → TOT 6	TOT 60	MENU	Press ▲ or ▼ key Select parameter	TOT has 40 levels in steps of 15 seconds. OFF: Turn off TOT	MENU	EXIT	P16
7	Setting VOX	MENU → VOX 7	VOX OFF	MENU	Press ▲ or ▼ key Select parameter	VOX has levels from 1 to 10 OFF: Turn off VOX transmission	MENU	EXIT	P17
8	Setting bandwidth	MENU → W&N 8	WN WIDE	MENU	Press ▲ or ▼ key Select parameter	WIDE: 25KHz NARR: 12.5KHz	MENU	EXIT	P17
9	Voice Prompt	MENU → VOICE 9	VOICE ENGLISH						P18