


*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.*

READ THIS IMPORTANT INFORMATION ON THE SAFE AND EFFICIENT OPERATION BEFORE USING  Wouxun PORTABLE TRANSCIEVER. This manual is ONLY suitable for KG-UV9D&KG-UV9D(E).

## User Safety, Training, and General Information


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

### Compliance with RF Energy Exposure Standards

Your  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  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 keep the antenna far away from your head.


## Body-worn operation

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

## Antennas & Batteries

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



## Approved Accessories

For a list of  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 parking in gasoline service stations.
- » If you require this machine to be developed or get some changes, please contact with  or your  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 the equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communication. 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 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 place close to heating appliances.

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,  declares that this Two-way radio is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

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

Internet Address: [www.wouxun.com](http://www.wouxun.com)

## Contents

<b>Unpacking and checking the equipment</b> .....	<b>01</b>
<b>Installing before use</b> .....	<b>02</b>
<b>Getting Started</b> .....	<b>03-08</b>
<i>Description of Features</i> .....	<i>03-04</i>
<i>Specifications</i> .....	<i>05</i>
<i>Description of Transceiver</i> .....	<i>06-08</i>
<b>Basic Operation</b> .....	<b>09-13</b>
<b>Shortcut Operation Sheet</b> .....	<b>14-21</b>
<b>How to Operate</b> .....	<b>22-44</b>
<i>Auto Brightness Time (ABR) ----- MENU1</i> .....	<i>22</i>
<i>Save Power Mode (SAVE) ----- MENU2</i> .....	<i>22</i>
<i>Step Frequency (STEP) ----- MENU3</i> .....	<i>22</i>
<i>Bandwidth Selection (W/N) ----- MENU4</i> .....	<i>23</i>
<i>Transmitting Power Selection (TXP) ----- MENU5</i> .....	<i>23</i>
<i>Frequency Shift Direction (SFT-D) ----- MENU6</i> .....	<i>23</i>
<i>VOX (VOX) ----- MENU7</i> .....	<i>24</i>
<i>Squelch Level (SQL-LE) ----- MENU8</i> .....	<i>24-25</i>

## Contents

<i>Roger (ROGER)</i> ----- MENU 9 .....	25
<i>Transmitting Out Timer (TOT)</i> ----- MENU10 .....	25-26
<i>Transmitting Overtime Alarm (TOA)</i> ----- MENU11 .....	26
<i>Voice Switch (VOICE-SW)</i> ----- MENU12 .....	26
<i>Beep Prompt (BEEP)</i> ----- MENU13 .....	27
<i>Menu Language (MENULANGE)</i> ----- MENU14 .....	27
<i>Busy Channel Lockout (BCL)</i> ----- MENU15 .....	27
<i>Receiving CTCSS (RX-CTC)</i> ----- MENU16 .....	28
<i>Transmitting CTCSS (TX-CTC)</i> ----- MENU17 .....	28
<i>Receiving DCS (RX-DCS)</i> ----- MENU18 .....	28
<i>Transmitting DCS (TX-DCS)</i> ----- MENU19 .....	28
<i>Scan Mode (SC-REV)</i> ----- MENU20 .....	29
<i>Mute Mode (SP-MUTE)</i> ----- MENU21 .....	29-30
<i>DTMF Sidetone (DTMF-ST)</i> ----- MENU22 .....	30
<i>PTT ID (PTT-ID)</i> ----- MENU23 .....	30
<i>ANI ID Code Edit (ID-EDIT)</i> ----- MENU24 .....	31
<i>Transmitting ANI ID Code Delay (ID-DLY)</i> ----- MENU 25 .....	31

<i>Ring Time (RING)</i> ----- MENU26 .....	32
<i>Back Light Brightness Level (ABR-LV)</i> ----- MENU27 .....	32
<i>Offset Frequency (OFFSET)</i> ----- MENU28 .....	32
<i>Channel Name Edit (CH-NAME)</i> ----- MENU29 .....	33
<i>Memory Channel (MEM-CH)</i> ----- MENU30 .....	34
<i>Delete Channel (DEL-CH)</i> ----- MENU31 .....	34
<i>Priority Channel (PRI-CH)</i> ----- MENU32 .....	34
<i>Priority Scanning (PRI-SCN)</i> ----- MENU33 .....	35
<i>Keypad Auto Lock (AUTOLOCK)</i> ----- MENU34 .....	35
<i>Lock Mode (LOCKMODE)</i> ----- MENU35 .....	36
<i>Single Tone Setting (S-TONE)</i> ----- MENU36 .....	36
<i>VOX Delay (VOX-DLY)</i> ----- MENU37 .....	37
<i>Save CTCSS/DCS Mode (SC-QT)</i> ----- MENU38 .....	37
<i>Auto Power-off Timer (APO-TMR)</i> ----- MENU39 .....	37
<i>Power on Message (PONMSG)</i> ----- MENU40 .....	38
<i>Repeater Receipt Tone (RPT-RCT)</i> ----- MENU41 .....	38
<i>Scan Adding (SCN-ADD)</i> ----- MENU42 .....	38

<i>Scan Channel Group (SCN-GP) ----- MENU43</i>	39
<i>Scan Mode (SCN-MODE) ----- MENU44</i>	39
<i>Scan CTCSS/DCS (SCN-CD) ----- MENU45</i>	40
<i>Caller ID (CALL ID) ----- MENU46</i>	40-41
<i>Auto Distinguish AM Mode (AUTO-AM) ----- MENU47</i>	41
<i>AM Switch (AM-SW) ----- MENU48</i>	41-42
<i>PFI Definition (PFI-DEF) ----- MENU49</i>	42
<i>PF2 Definition (PF2-DEF) ----- MENU50</i>	43
<i>PF3 Definition (PF3-DEF) ----- MENU51</i>	43
<i>Voltage Check (VOLTAGE) ----- MENU52</i>	43
<i>QT Detection (QT-SW) ----- MENU53</i>	44
<i>Sub Band Mute (S-MUTE) ----- MENU54</i>	44
<i>Reset (RESET) ----- MENU55</i>	44
<b><i>Detailed Instructions of Some Important Functions</i></b>	<b>45-52</b>
<b><i>Specification (CTCSS/DCS)</i></b>	<b>53-54</b>
<b><i>Trouble Shooting</i></b>	<b>55-56</b>
<b><i>Optional Accessories</i></b>	<b>57</b>
<b><i>Announcement</i></b>	<b>58</b>

## Batterypack Working Time

Before taking the radio outside, it is necessary to learn how long the batterypack can work. The following table for working time is based on the test of the below circle conditions:

Transmission for 6 seconds

Receiving for 6 seconds

Standby for 48seconds

Batterypack	Output Power	Estimated Working Time(Hour)
Standard 2000mah	High Power	8
	Middle Power	12
	Low Power	14

Working Time in Standby Test:

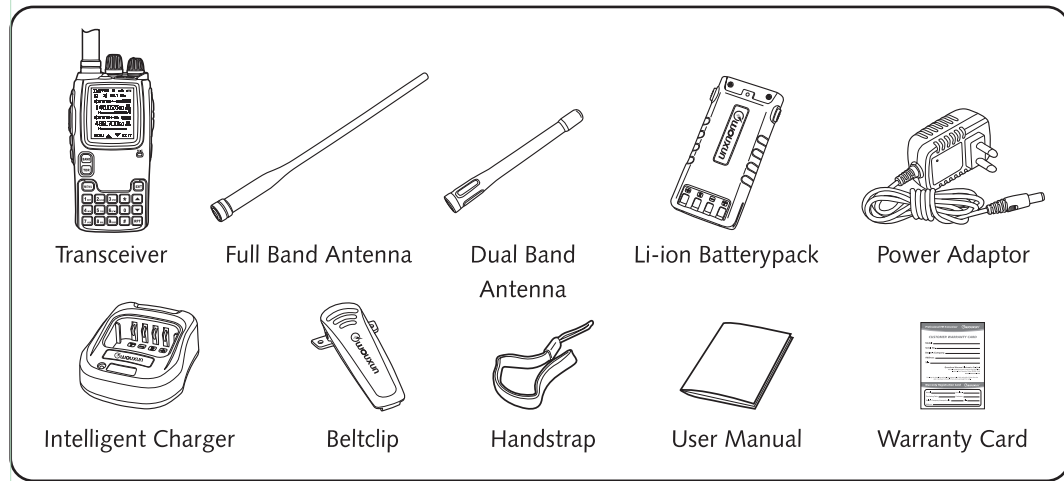
Condition: a.Standard 2000mAH batterypack, b.In Power Save Mode,c.No transmission or receiving,  
No-working Backlight.

Working Time in Standby: Continuous 38 hours.

## 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 missed or has been damaged during shipment, please notify your **Wouxun** dealer.

### Supplied Accessories



## Installing before use

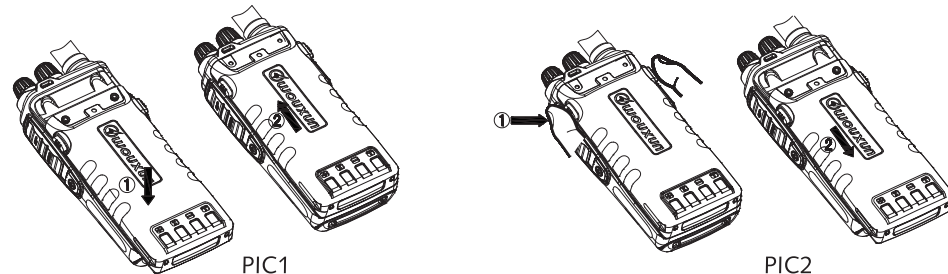
### Install / remove battery pack

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

#### NOTE

- » Do not shortcircuit the terminals or put the battery pack into fire.
- » Do not try to remove the case from the battery pack.

1. Please aim the battery pack at the back of the transceiver, and then push up and press down the battery pack to lock the release latch. (PIC1)
2. If you want to remove the battery pack, push down the release latch, and the battery pack will be released from the transceiver. (PIC2)





### Description of Features

1. Frequency Range(suitable for different countries or areas):  
144-148MHz 420-450MHz
2. Twin Band Simultaneous Receiving(U-U,U-V,V-U,V-V)
3. Separate Bands Duplex(U-V,V-U)
4. DTMF Encoding/Decoding
5. All Calls, Group Calls and Selective Calls
6. Stun,Kill,Monitor and Inspection
7. CTCSS/DCS Scan
8. Programmable Non-Standard CTCSS/DCS
9. Multi Scan Modes:Programmable Scanned Frequency Range(only available in Frequency Mode);

- Channel Groups Scan(only available in Channel Mode)
10. VOX
11. Multi Functions Programmable for Side Keys, Programmable Transmission Function on Sub-Frequency (Side Key Function Programmable)
12. English Voice Guide
13. Priority Scan, Priority Channel Setting
14. Twin Band Simultaneous Scan
15. Multi Power Save Modes
16. Auto Power-Off Timer(APO)
17. Three Output Power Levels:
18. Multi Single-Tone Pulse  
(1750Hz,2100Hz,1000Hz,1450Hz)
19. Multi Keypad Lock Modes
20. PTT ID
21. Wide/Narrow Bandwidth Selection
22. Backlight Brightness Selection

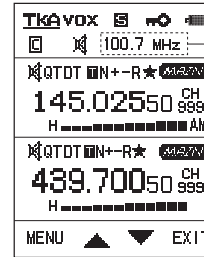
## Specifications

Intergration		Receiving	Wide bandwidth	Narrow bandwidth	
Frequency Range	Suitable for Different Countries or Areas  144-148MHz 420-450MHz	Adjacent Channel Selectivity	≤ 70dB	≤ 60dB	
		Inter Modulation	≤ 65dB	≤ 60dB	
		Spurious Response	≤ 70dB	≤ 70dB	
		Audio Response	+1~3dB (0.3~3KHz)	+1~3dB(0.3 ~2.55KHz)	
Step	12.5KHz / 25KHz	Signal to Noise Ratio	≥ 45dB	≥ 40dB	
Channel Number	999	Audio Distortion	≤ 5%		
Work Mode	F3E	Audio Power	Transceiver ≤ 500mW		
Operating Temperature	-20℃ or 40℃	Sensitivity	144-148MHz 420-450MHz		
Antenna Resistance	50Ω				
Voltage	7.4VDC				
Weight	490g				
Size	124.5x 61.49 x 33.88 (mm)				
Transmitter	Wide bandwidth	Narrow bandwidth	Transmitter	Wide bandwidth	Narrow bandwidth
Type of Modulation	16K F3E	11K F3E	Max Frequency Deviation	± 5KHz	± 2.5KHz
Adjacent Channel Power	> 70dB	> 60dB	Frequency Stability	± 2.5ppm	
Spurious	> 60dB	> 60dB	Audio Distortion	≤ 5%	
Audio Response	+1~3dB (0.3~3KHz)	+1~3dB (0.3~2.55KHz)	Output Power	UHF H:4W,M:2W,L:1W	
				VHF H:5W,M:2W,L:1W	

Note: 2.5K step is only available on KG-UV9D(E) version.

## Description of Transceiver LCD Screen

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



- Function Display
- Personal Message or FM Radio Frequency Display
- Channel NO. on A area, or Frequency Display
- Channel NO. on B area, or Frequency Display
- Operation Indication

**TKA** : Talk Around

**VOX** : VOX

**S** : Power Save Activiated

**Battery** : Batterypack Voltage Display

**P** : Priority Function Activiated

**M** : Mute Function Activiated

**QT** : CTCSS Activiated

**DT** : DCS Activiated

**T** : DTMF Encoding/Decoding

**N** : Narrow Bandwidth **W** : Wide Bandwidth

**+** : Positive Offset **-** : Negative Frequency

**-----** : Output Power or Receiving Signal Meter Indicator

**R** : Reverse Frequency

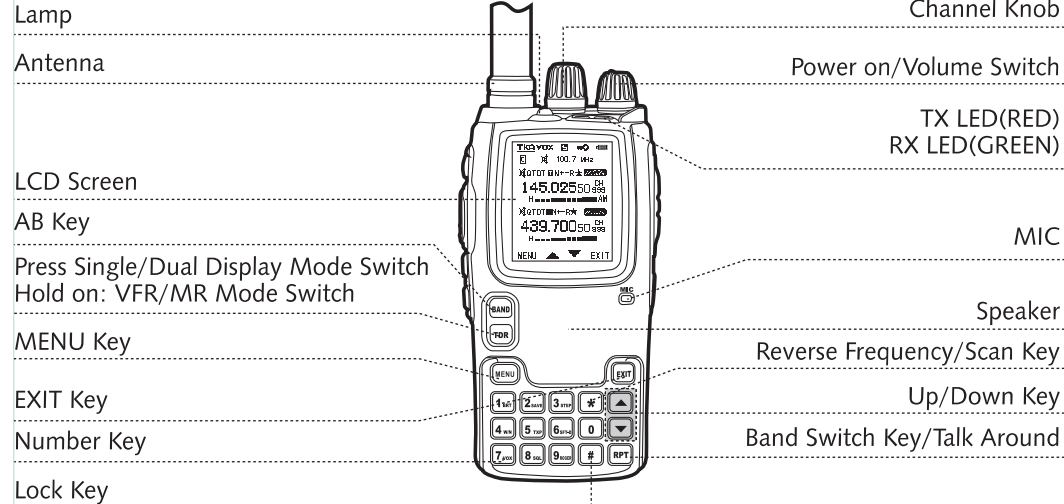
**★** : Current Channel is Priority

**MARZNY** : Main Frequency

**CH 999** : Current Channel NO.

**AM** : AM Modulation

**H<sub>M</sub>L** : Output Power Level

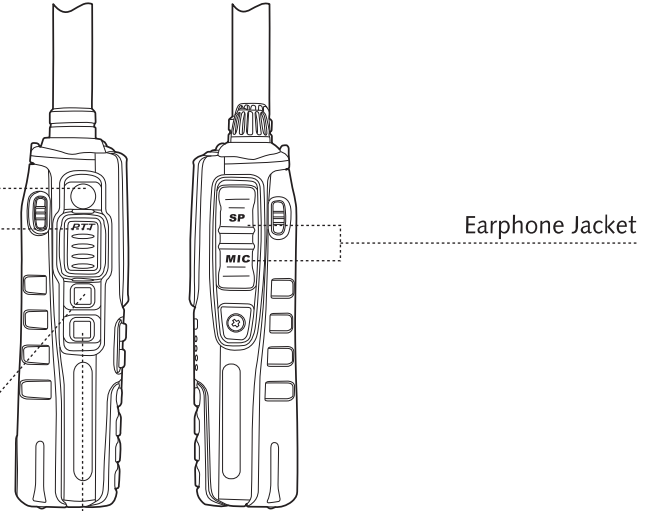


Sidekey PF1: No Function,  
Selective Calls, Distant Alarm  
SOS, TX on Sub-frequency

PTT Key

Sidekey PF2:  
Short Press:  
Enter/Exit FM Radio  
Hold On (for 1s)  
Scan/Stopwatch/Lamp/  
Frequency Shift/Frequency  
Direction/Keypad Light

Sidekey PF3:  
Short Press:  
Squelch (MONI Key)  
Hold On:  
No Function, Selective Calls, Distant  
Alarm SOS, TX on Sub-Frequency



### (1) Main Frequency Switch

Press **BAND** to select the main frequency. The frequency with **MAIN** at the left top corner of the screen is the main frequency ; the frequency without **MAIN** is the sub-frequency.

### (2) Sub-Frequency Transmission Key

PTT key is for transmission on main frequency. If you want to transmit on sub-frequency, please change main frequency or program PF1 or PF3 as sub-frequency transmission.

When programming PF1 or PF3 as sub-transmission function, please press PF1 or PF3 directly to transmit without changing the main frequency.

#### ■ Program PF1 as sub-frequency transmission

Program PF1 via MENU49 as sub-frequency transmission function when holding on.

#### ■ Program PF3 as sub-frequency transmission

Program PF3 via MENU51 as sub-frequency transmission function when holding on.

### (3) Speed Search

Press UP/DOWN key to select your desired function or parameter.

### (4) # key

In FM radio mode, press **#** to program FM radio frequency. Hold on **#** for 1 second to lock or unlock the keypad.

### (5) \* key

Press **\*** to activate or turn off the reverse function. Hold on **\*** for 2 seconds to activate the scan function.

### (6) RPT key

In standby, press RPT key to switch the main frequency. Hold on RPT key to activate talk around function.

### (7) TDR key

Functions for pressing **TDR** key: Single Band/Dual Band Display Switch.

Press **TDR** key each time, the sub frequency will be turned off or on to carry Single Band/Dual Band display switch.

Functions for holding on **TDR** key: Work Mode(VFO/MR) Switch  
Switch Work Modes(VFO/MR) is as followings: