



How to operate

KG-UVD1P 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 input password is "000000", it means no password is needed to input for this operation.



(1) Setting password as "000000"

In standby, press **MENU** + **SQL2** **0009** , the screen displays 

Press **MENU** to enter, and press **▲** / **▼** to select ALL, press **MENU** , the screen displays  , then press **MENU** again to confirm, the screen displays  . when the reset is done, the transceiver will be resumed automatically.

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

In standby, press **MENU** + **SQL2** **0009** , the screen displays 

Press **MENU** to enter, and press **▲** / **▼** to select ALL, press **MENU** , the screen will displays  , at this time input the valid password (e.g.: 123456), the screen displays  , then the transceiver will start resetting. After reset is done, the transceiver will be resumed automatically.

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CTCSS/DCS scanning ----- MENU 30

When the transceiver detects the CTCSS/DCS signals from outside, this function can start scanning the CTCSS/DCS frequencies, which has already been set in this transceiver, and stop scanning at the matching CTCSS/DCS frequency with the transmitting CTCSS/DCS frequency.

When the transceiver receives CTCSS/DCS signal, press **MENU** + **SQL3** **00** , the screen displays 

Press **MENU** to enter, the arrowhead points to "CTCSS". Press **▲** / **▼** select to scan CTCSS or DCS.

And then press **MENU** to confirm, it starts scanning CTCSS/DCS frequencies.

NOTE

- » This function only works in frequency mode.
- » Only when the transceiver detects the CTCSS/DCS signals from outside, this function works.
- » Press **▲** / **▼** or the Rotary Encoder to change the scanning direction.
- » When the transceiver scans to the matching CTCSS/DCS frequency, it stops at this frequency.
You can press **MENU** 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 be reset to the original setting before the next scanning.
- » Only the band with the arrowhead and detecting the signal can be activated to do next the CTCSS/DCS scanning.

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How to operate

DTMF Encoding

MENU , **▲** , **▼** , **EXIT** 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.

Editing/Transmitting ANI ID Code, ANI ID Code transmitting delay and DTMF 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 by alphanum (A~D and 0~9) with 6 digits max.

Transmitting ANI ID Code 40

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

ANI ID Code transmitting delay

The delay time for transmitting ANI ID Code means the time which the transceiver is automatically delayed transmitting ANI ID Code.

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: Press number key or transmit ANI ID Code can turn on sidetone when transmitting.
- ④ OFF: In encoding mode, all sidetones are off.

How to operate

Setting priority scan function

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 when scanning, it will call on its frequency. Please program the priority channel via KG-UVD1P programming software.

Setting reverse frequency function

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 mode, press **SCAN*** to activated this function, while press **SCAN*** again to switch it off.

In channel mode, if you want to:

1. unlock the menu setting.
2. reset the transceiver.

please program above operations via Wouxun KG-UVD1P programming software.

Low voltage prompt

When the batterypack is in low voltage, there will be voice prompt for the lower voltage, at this time, the backlight flashes one time 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 MENU 15 about the Time-out timer TOT)

Adding scanning channel

NOTE

- » Only the added scanning channel can be listed to scan.
- » Editing method: Strictly via KG-UVD1P programming software.

How to operate

Wire-clone function

Wire-clone setting	a. Install batterypacks on source radio and target radio and connect them via wire-clone cable. b. And then power target radio on. c. Power on the source radio and hold on the MONI key at the same time. d. Red LED on the source radio flashes, while the green LED on the target radio flashes, it shows the wire cloning is completely proceeding.	Transmitting red LED flashing means transmitting data when wire cloning. Transmitting red LED distinguishes after completing wire-clone, and the transceiver returns to standby. Transmitting red LED lasting flashing means the wire-clone is failed and the transceiver returns to standby mode.
	Target radio	Receiving green LED flashing means receiving data when wire cloning. Receiving green LED extinguishes after completing wire-clone, and the transceiver returns to standby.

Working with Repeater

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

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

- Set the transceiver work in the Frequency/VFO mode. (If the radio work on channel mode, please press **MENU** + **TDR** key to switch frequency mode.)
- Input the Receive frequency through the keyboard. (The Receive frequency of this transceiver is the Transmit frequency of Repeater.)
- Set the related parameter you need for this frequency, like MENU 15-18 CTCSS/DCS, MENU 23 Offset frequency, MENU 24 Shift frequency direction and others.
- Memorize this frequency and the parameter into the specified channel by MENU 27.
- 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 range 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:

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How to operate

- a. Power on the transceiver, and set it to work in Frequency mode.
- b. Press **MENU** + **STEP1** + **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** + **TXP4** + **MENU** to set the Transmitting Power. Press **▲** / **▼** 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 16)
Press **MENU** + **STEP1** + **TOT6** + **MENU** to set the T-CTCSS. Press **▲** / **▼** key 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 23)
Press **MENU** + **SOL2** + **SWF3** + **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 31-32)
Press **MENU** + **SOL2** + **TXP4** + **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 32-33)

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Press **MENU** + **SOL2** + **VOX7** + **MENU** to Memory channel. Press **▲** / **▼** key, rotate the channel encoder, or directly input 2+0 through the keyboard to select the specified channel CH-20, and then press **MENU** to confirm, there is voice prompt "Receiving memory"(it prompts when the Voice guide is ON.). Finally press **EXIT** to return to standby. (Please refer to MENU 27 on Page 35-36)

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

If necessary for the channel name editing, please press **MENU** + **TDR** to switch the working mode to Channel mode. Select the specified channel CH-20, and then press **MENU** + **SOL2** + **STEP1** + **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** + **SOL2** + **TOT6** + **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 29-30 and MENU 26 on Page 34-35)

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 charging is on the progress. When the RED LED turns to GREEN, the charging completes.

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How to operate

NOTE

- » When the exhausted battery pack is inserted into the charger, it will be pre-charged in trickle power with the RED LED flashing until 10-20 minutes later. Then the RED LED is on, the charger enters into the normal charging mode. When the GREEN LED turns on, it is fully charged.
- » Charging the exhausted battery pack in trickle power can protect the lithium battery pack better.

Programming guide for KG-UVD1P software (via USB programming cable)

- a. Download, unzip and install the USB driver according to different operating system.
- b. Restart your computer, and it shows the driver is installed successfully.
- c. Download and unzip the matching programming software.
- d. Connect the transceiver and open the software.
- e. Power on the transceiver and open the software.
- f. Read from the radio to check the connection.
- g. Set the parameter and functions accordingly.
- 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 accordingly.
- » Please note that once the first three steps are done well, the com port will be selected automatically when you open the software. However, according to the different computer settings, the com port may be needed to re-set.
- » Please determine the port assignment from the device manager of the computer and select the correct communication port, which is available for the connection.
- » 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-UVD1P programming on our wouxun website: <http://www.wouxun.com>

Trouble shooting

Before the transceiver is regarded as being faulty, please double check according to the main problems as following chart. If the problems are still happening, please reset it to avoid some misfunctional operation, search assistance from the experienced technician or contact your buyer accordingly.

Problem	Solution
The transceiver can not be powered on.	<ol style="list-style-type: none"> 1. The battery may be exhausted, pls 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.	<ol style="list-style-type: none"> 1. The battery life is over, pls change a new battery. 2. The battery is not fully charge.
The receiving light keeps flashing, but there is no sound coming out.	<ol style="list-style-type: none"> 1. Make sure the volume is highest. 2. Make sure the CTCSS/DCS settings are the same as the transmitting transceiver.
It seems the keyboard does not work.	<ol style="list-style-type: none"> 1. Make sure the keypad is locked or not. 2. Make sure the keys are not stuck.

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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 frequency mode via programming software.
There are other disturbed signals or noise(from other groups) in the channel.	Please change the CTCSS/DCS frequencies set in your group.

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Technical parameter

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	D446N
13	D071N	28	D155N	43	D251N	58	D343N	73	D452N
14	D072N	29	D156N	44	D252N	59	D346N	74	D454N
15	D073N	30	D162N	45	D255N	60	D351N	75	D455N

Technical parameter

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

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Technical specification

Wouxun
Professional FM Transceiver

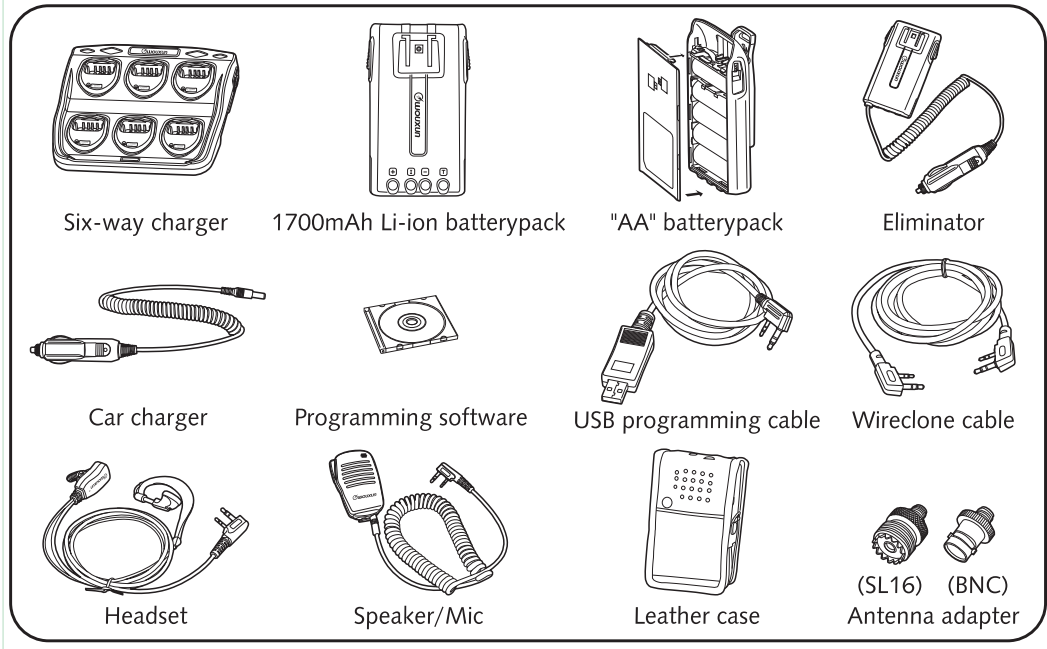
Frequency Range (can be suitable for different countries or areas):	76-108 MHz (Rx) 136-174MHz, 217-222MHz
Memory channel	128 channels
Operating Voltage	7.4V
Operating Temperature	-30°C to + 60°C
Working Mode	Co-channel or Dis-channel simplex
Output Power	1 W
Modulation	F3E(FM)
Max. Frequency Deviation	≤ ±5KHz
Spurious Radiation	< -60dB
Frequency Stability	±2.5 ppm
Receive Sensitivity	< 0.2 μV
Audio Output power	≥ 500mW
Waterproof	IP55
Dimension	61 X 119.5 X 37.5 (mm)
Weight	248g

NOTE

» Specifications is subject to be updated without prior notice.

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Optional accessories



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Announcement

Wouxun
Professional FM Transceiver

Wouxun endeavors to achieve the accuracy and completeness of this manual, but it is still not perfect for any possible omissions or printing errors. All the above is subject to be updated without prior notice.

English Version: KG-UVD1P-1105-V6

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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-UVD1P

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

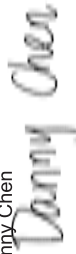
Efficient use of frequency spectrum
-ETSI EN 301783-1 V1.1.1(2008-09)
-ETSI EN 301783-2 V1.1.1 (2008-09)

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

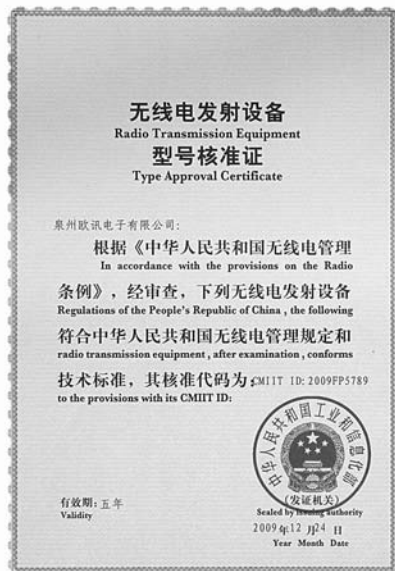
Signature:



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National model approval certification

 wouxun
Professional FM Transceiver



1st National Approval Certification for Dual Band Two Way Radio
KG-UVD1P Approval Code: CMIIT ID: 2009FP5789



To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- DO NOT operate the radio without a proper antenna attached, as this may damage the radio. And may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or antenna specifically authorized by the manufacturer for use with this radio.
- DO NOT transmit for more than 50% of total radio use time (“50% duty cycle”). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the “TX indicator” lights red. You can cause the radio to transmit by pressing the “PTT” switch.
- ALWAYS keep the antenna at least 2.5cm (1 inch) away from the body when transmitting and only use the belt-clip which is listed in instructions when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5cm (2 inches) from your mouth, and slightly off to one side.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates within the FCC RF exposure limits of this radio.

NOTE 1: This equipment has been tested and found to comply with the part 15 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 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.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

SAFETY TRAINING INFORMATION

This Radio has been tested and complies with the Federal Communications Commission(FCC) RF exposure limits for Occupational Use/Controlled exposure environment. In addition, it complies with the following Standards and Guidelines:

- 47 CFR part 2 sub-part j, United States Federal Communications Commission, Code of Federal Regulations
- FCC OET Bulletin 65 Edition 01-01(2001) Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- ANSI/IEEE C95.1-1992, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz.
- ANSI/IEEE C95.3-1992, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields-RF and Microwave.



WARNING: This radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as **Occupational Use Only**, meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is not intended for use by the **General Population** in an uncontrolled environment.



CAUTION: To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

RF Exposure Compliance and Control Guidelines and Operating Instructions

- **This radio is NOT approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control its RF exposure conditions.**
- **When transmitting, hold the radio in a vertical position with its microphone 1 to 2 inches (2.5 to 5.0cm) away from your mouth and keep the antenna at least 1 inch (2.5cm) away from your head and body.**
- **The radio must be used with a maximum operating duty cycle not exceeding 50%, in typical Push-to-Talk(PTT) configurations, DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.**

The radio is transmitting when the red LED on the top of the radio is illuminated. You can cause the radio to transmit by pressing the PTT button.

*Note: **Time-out timer:** The selected channel has been programmed for Time-Out timer, you must limit the length of each transmission, While 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%.

- **DON NOT transmit when the radio is used in Body Worn configuration with the following accessory: belt-clip(CLIP-18). It must be used ONLY for (1) there is a 1 inch (2.5cm) distance from the body during transmitting, (2) monitoring purposes, using the speaker only and (3) for carrying purposes.**

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmission, this radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so.

Do not operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, health care facilities, aircraft, and blasting sites.

Changes or modifications to this device, not expressly approved by Wouxun, could void your authority to operate this transceiver under FCC regulations.

FCC LICENSE INFORMATION

This radio operates on communications frequencies which are subject to FCC (Federal Communication Commission) Rules and Regulations. FCC Rules require that all operators using Private Land Mobile radio frequencies obtain a radio license before operating their equipment.