

Thank you for purchasing the Wouxun KG-805F portable FRS radio.

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Safety Information

The KG-805F is an electrical apparatus, as well as a generator of RF (Radio Frequency) energy, and you should exercise all safety precautions as are appropriate for this type of device.

Please read the suggestions and warnings below before using the transceiver.

- ⚠ Keep the transceiver and accessories out of the reach of children.
- ⚠ Do not disassemble the transceiver.
- ⚠ Only use the supplied battery pack and charger or genuine Wouxun branded replacements purchased from an authorized dealer. Using improper batteries and charging accessories can damage the transceiver.
- ⚠ The antenna is permanently attached and tuned for the frequencies supported by this transceiver. Any attempt to remove the antenna may damage the transceiver.
- ⚠ Do not leave the transceiver exposed to direct sunlight or in overheated areas for an extended period of time.
- ⚠ Keep the transceiver away from dusty or humid areas.

- ⚠ The transceiver should be cleaned with mild detergents and a soft brush or cloth. Avoid cleaning with aggressive chemicals.
- ⚠ NEVER transmit without a properly connected antenna.
- ⚠ If an abnormal odor or smoke is detected from the transceiver, power it off immediately, then remove the battery pack. Contact your dealer for further assistance.

Notice

- These tips are important for safe operation of your KG-805F radio and its accessories. If the transceiver does not function normally, please get in touch with your dealer immediately.
- If you use components or accessories not produced by the Wouxun Company, Wouxun will not guarantee the safety and usability of the transceiver.

Safety Information

Caution

Please read this manual before using the radio, as it includes important instructions for the safe handling, use and operation of your radio.

FCC Compliance

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 US FEDERAL LAW.

Radio Operation and EME Exposure

Use only an antenna designed for use with this radio and its operating frequencies. Unauthorized modifications or attachments may damage the radio and violate FCC rules.

DO NOT hold the antenna while the radio is in use.

DO NOT attempt to use the radio with a damaged antenna.

FCC Licensing Information

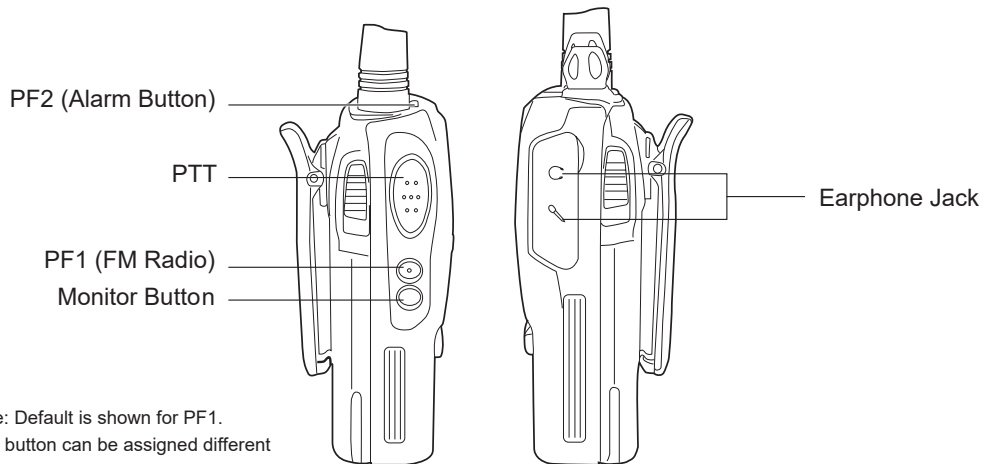
The Wouxun KG-805F is FCC Part 95B type accepted for use on the FRS. The KG-805F operates on Family Radio Service (FRS) frequencies according to the Federal Communications Commission (FCC) Rules in the United States. FRS radios are licensed by rule. As such, a license is not required to transmit on these frequencies. For more information, visit the FCC's web site at <https://www.fcc.gov/>.

Feature Summary

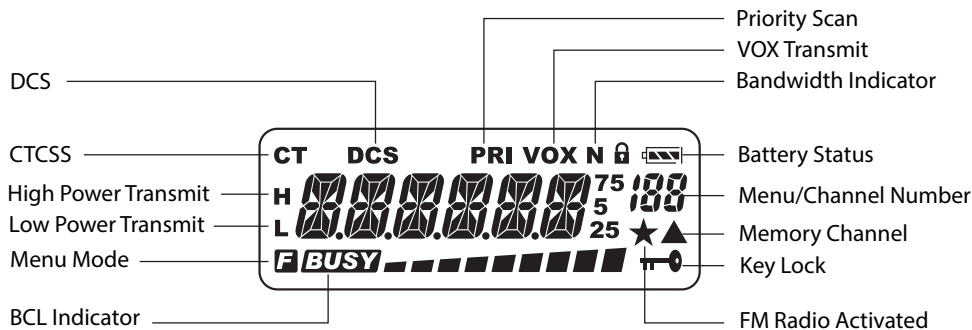
- 22 FRS Channels
- Up to 2 Watts Output Power
- Up to 128 Custom Channels
- 155 CTCSS/DCS Tones
- Superheterodyne Receiver
- 3-Color Backlit Display
- Multi-Display Modes
- Backlit Keys
- Channel Scan
- VOX Transmit
- Split CTCSS/DCS Tone Support
- Alarm Function
- Busy Channel Lockout
- High/Low Power Selectable
- Receive (RX) Frequency Range:
400-479.995 MHz
- Transmit (TX) Frequency Range:
462.550-462.725MHz (FRS Channels 1-7 and 15-22)
467.550-467.725MHz (FRS Channels 8-14)
- FM Radio
- English Voice Prompts
- 2 Configurable Side Keys
- Key Lock
- PC Programming Software Support
- IP55 Water Resistant

Getting Started

Right / Left Side Guide



Display Guide



Full Battery

Low Battery

Exhausted Battery

RX Signal Strength

Dust and Water Protection

The KG-805F is waterproof to IP55 standards. It is dust resistant and rated to withstand water projected by a nozzle (6.3 mm) against enclosure from any direction for a limited period. This radio is resistant to dust and water only while the battery is properly installed and locked in place with no gaps and the accessory port is completely sealed with the accessory port cover. Use of a headset or other accessory will negate the dust and waterproofing features of this radio. The KG-805F is NOT submersible. Do not attempt to operate this radio if it has been submerged.

- The radio charger is NOT dust or waterproof.
- Charge the radio only under dry conditions.
- DO NOT charge the radio when it is wet.
- DO NOT expose the radio and charger to wet environments when charging.

The Battery

Installing the Battery

To install the Lithium-ion battery pack:

1. Be sure the radio is off.
2. Slide the battery pack down the back off the radio until the three tabs on the bottom of the battery slide into the slots at the bottom of the radio.
3. Push forward on the battery until it is securely locked in place on both sides.

Removing the Battery

To remove the battery pack:

1. With your thumb and forefinger, slide down the latches on each side of the battery near the top of the battery pack simultaneously
2. While holding down the latches, pull the battery pack away from the radio.

The Antenna

The KG-805F antenna is permanently attached to comply with FCC rules. Any attempt to remove it may damage your radio and will void your warranty.

Warning: To avoid injury, DO NOT attempt to operate your radio if the antenna is damaged or defective.

The Belt Clip

The belt clip attaches to the back of the battery pack on the radio. To install the belt clip, simply slide it down onto the back of the battery until it snaps in place. To remove the belt clip, depress the lock release on the back of the belt clip, and while holding it down, slide the belt clip up and away from the battery.

Introducing FRS and the KG-805F

The Family Radio Service (FRS) is a two way radio service that offers some powerful benefits. Users are allowed to transmit at up to 2 watts without the need to purchase a license. This radio is Licensed by Rule, meaning that your purchase and use of the KG-805F automatically grants you a license to use it in the United States.

The KG-805F was designed to allow you to take advantage of all that FRS has to offer and more. Right out of the box this radio is configured to allow you to transmit on the 22 FRS simplex channels.

Read this chapter to learn the basics of using your new KG-805F radio, such as selecting a channel, transmitting and receiving, and scanning.

Power On/Off and Adjusting Volume

Rotate the volume knob clockwise to power on the radio. To power off the radio, rotate the volume knob counter-clockwise until a click is felt.

To adjust the volume, use the volume knob when the radio is powered on. Turning the knob clockwise increases the volume, counter-clockwise decreases it.

Your First Transmit

Selecting a Channel

When you power on your KG-805F for the first time, the display will likely show “CH01” on the left with “01” on the right. CH01 is the name of the currently selected channel and 01 is the channel number. Turn the Channel Knob or press the [UP] / [DOWN] arrow keys to navigate through the list of channels.

As a license-free FRS user you are allowed to use any of the channels. The channel you choose isn't as important as making sure it's the same channel the rest of your group is using. Be sure the channel you select is also supported by the equipment everyone else

in your group is using.

Most rules for FRS are the same for all channels, but there are a few differences, particularly concerning output power. The FRS channels on the KG-805F consist of 2 groups, with the following differences:

- Transmitting on channels 1-7 and 15-22 is authorized for up to 2 watts of output power on FRS. These channels can transmit at High power on the KG-805F. Prior to FCC changes made in 2017, channels 15-22 were exclusive to GMRS (not part of FRS).
- Transmitting on channels 8-14 are limited to a half watt of output power and are for use on Low power only. Prior to FCC changes made in 2017, these were the only channels exclusively assigned to the FRS service.

Transmitting and Receiving

With a channel selected, the radio is actively “listening” for an incoming signal on that channel. When a signal is detected, the transmission will be heard through the radio’s speaker. Please note, the Squelch setting (page 24) determines how strong a signal

Operation

needs to be in order to be detected.

To transmit, first be sure the channel is clear and then hold the radio a few inches from your mouth. Hold down the PTT button on the side while talking and release the PTT when finished.

For best performance and clarity of transmission, position the radio upright with the front of the radio facing you, hold it several inches away from your mouth and speak directly into the microphone during transmission.

Channels and Privacy Codes

The KG-805F supports 22 built-in FRS channels and 155 privacy tones and codes. To successfully communicate between your stations or members of your group, all the connecting radios must be using the same channel and privacy (CTCSS or DCS) code. These tones and codes can be enabled and configured in the [R-CTC], [R-DCS], [T-CTC] and [T-DCS] menu options (pp 28-29).

The KG-805F supports 128 customizable memory channels. Channels can be added, deleted or reordered via the PC programming software.

Channel Scan

The [A/B] key controls the SCAN function. To activate Channel Scan, press and hold the [A/B] key for two seconds or until you hear “Scan Begin”. The radio will scan each channel for activity, starting from the current channel. Pressing the [UP] / [DOWN] keys while scanning will change the direction of the scan from low to high ([UP]) or high to low ([DOWN]). Press any other key to stop the scan. Refer to the Scan Mode menu item (p 29) for more information on the types of scans available. The scan function can also be assigned to the PF1 button from the menu (p 30).

Priority Channel Scan

The KG-805F supports Priority Channel Scanning. With this feature a priority channel can be specified that is scanned much more frequently than other channels. This helps prevent missing all or part of a transmission when you are primarily concerned with a single channel.

Priority Channel Scanning works by scanning your priority channel in between all other channels. For example, if your priority channel is 3 the radio would scan your

Operation

channel list in the following order:

1 ▶ 3 ▶ 2 ▶ 3 ▶ 3 ▶ 3 ▶ 4 ▶ 3 ▶ 5 ▶ 3 ▶ ...

Note

- Priority Channel Scan is not accessible from the menu of the radio.
- It can only be enabled and modified using the KG-805F PC programming software.

Key Lock

The buttons on the KG-805F can be locked to prevent them from being accidentally pressed. When the Key Lock is enabled, all buttons except the Alarm, PTT, Monitor and Exit keys will be disabled. The Channel knob will also be disabled.

To activate the Key Lock, press and hold the [EXIT] key for three seconds. The key icon will appear in the lower right hand corner of the display. The buttons are now disabled.

To disable the Key Lock, press and hold the [EXIT] key for three seconds. The key icon will disappear from the lower right hand corner of the display. The buttons should now be enabled.

Stopwatch Timer

The KG-805F has a built-in stopwatch timer. Once enabled, Press [EXIT] on the radio to activate the stopwatch. Press any key or turn the channel knob to stop the timer. When stopped, press [EXIT] to clear and restart the timer, or press any key to deactivate the stopwatch and return to standby mode.

The timer will stop and the radio will exit stopwatch mode if a signal is received on an active channel.

Note

- The Stopwatch Timer is not accessible from the menu of the radio.
- It can only be enabled and modified using the KG-805F PC programming software.

Menu Functions

[01: SQL-LE] Squelch Level

Function: The squelch function allows you to set the threshold of the signal strength received and mutes the speaker when no signal is detected. Selecting a lower number will allow weaker signals to be heard, higher numbers require a stronger signal. Selecting [0] will unmute the speaker at all times.

Options: 0-9

Default: 5

[02: SAVE] Power Save

Function: Activates the battery saver feature. When active, the radio will scan less frequently for signals, improving battery life.

Options: ON/OFF

Default: ON

[03: ROGER] Roger Beep

Function: Enables an audible roger beep prompt during transmission.

Options: OFF/BOT/EOT/BOTH

Default: OFF

BOT: Sets the roger beep prompt at the beginning of transmission

EOT: Sets the roger beep at the end of transmission

BOTH: Sets the roger beep at the beginning and end of transmission

[04: TOT] Timeout Timer

Function: When the transmission time exceeds the time set by the Transmit Overtime Timer, the unit will emit an error prompt and stop transmitting.

Options: 15-600 seconds (15 second increments)

Default: 60 seconds

[05: VOX] Voice Activated Transmit

Function: The VOX function allows you to transmit without pressing the PTT key. When enabled, VOX automatically activates transmission when the radio detects a voice or other noise. The KG-805F has 10 VOX levels of sensitivity to detect sound, from 1 (most sensitive) to 10 (least sensitive). The higher the level, the louder the sound needed to activate VOX. It is advisable to limit the use of VOX to the operation of VOX supported headsets.

Menu Functions

Options: OFF/1-9 (level)

Default: OFF

[06: TOA] Transmit Overtime Alarm

Function: The Transmit Overtime Alarm warns when the transmit time limit set in the Transmit Overtime Timer (TOT) is about to be exceeded. When enabled, the red TX indicator LED on top of the radio flashes to indicate an alarm. The alarm can be set to a maximum time limit of 10 seconds and indicates the amount of time left until the Transmit Overtime Timer is exceeded and the radio automatically ends transmission.

Options: OFF/1S-10S

Default: 5S

[07: VOICE] Voice Prompt

Function: Disables or selects the language for voice prompts.

Selectable: OFF/ENGLISH/CHINESE

Default: ENGLISH

[08: BEEP] Button Beeps

Function: Enables an audio prompt to alert the operator of a key press, input or fault.

Selectable: ON/OFF

Default: ON

[09: PONMSG] Power On Message

Function: Select the item displayed when the radio is powered on.

Options: OFF/MSG/BATT-V

Default: OFF

MSG: Displays the message “WELCOM“.

BATT-V: Battery voltage

[10: BCL] Busy Channel Lockout

Function: Enabling Busy Channel Lockout prevents the transceiver from transmitting on a selected channel while another station or group is transmitting on it.

Options: ON/OFF

Default: ON

Menu Functions

Note: This item is available in the menu for display only. It can only be modified through optional programming software.

[11: AUTOLK] Auto Lock

Function: Automatically locks the keypad after 15 seconds of inactivity.

Options: OFF/ON

Default: OFF

Note: To unlock the radio, hold the [EXIT] key for 3 seconds.

[12: R-CTC] Receive CTCSS Tone

Function: Sets the receiving CTCSS tone for the selected channel. Use the arrow keys to select your preferred code and then MENU to confirm.

Options: OFF/50 CTCSS Tones

Default: OFF

[13: T-CTC] Transmit CTCSS Tone

Function: Sets the transmitting CTCSS tone for the selected channel. Use the arrow keys to select your preferred code and then [MENU] to confirm.

Options: OFF/50 CTCSS Tones

Default: OFF

[14: R-DCS] Receive DCS Code

Function: Sets the receiving DCS code for the selected channel. Use the arrow keys to select your preferred code and then MENU to confirm.

Options: OFF/105 DCS Codes

Default: OFF

[15: T-DCS] Transmit DCS Code

Function: Sets the transmitting DCS code for the selected channel. Use the arrow keys to select your preferred code and then [MENU] to confirm.

Options: OFF/105 DCS Codes

Default: OFF

[16: SC-REV] Scan Mode

Function: Scan mode settings

Options: TO/CO/SE

Menu Functions

Default: TO

TO: When a signal is detected, scanning stops. Scan will pause to wait for further activity and will then resume if no operation is carried out within 5 seconds. Pressing PTT will transmit on the currently selected channel.

CO: When a signal is detected, scanning stops and resumes 3 seconds after the signal is lost. Pressing PTT will transmit on the currently selected channel.

SE: When a signal is detected, scanning stops. Pressing PTT will transmit on the channel where the signal was detected.

[17: PF1] Side Key PF1 Assignment

Function: Assigns a function to the [PF1] side key. This key can be assigned to one of 3 available functions. RADIO allows access to the built-in FM radio, SCAN activates the channel scan function, and LAMP controls the backlight for the LCD display and keys.

Options: OFF/SCAN/LAMP/RADIO

Default: RADIO

[18: PF2] Side Key PF2/Alarm Button

Function: Function key [PF2] is the alarm button on the top of the KG-805F. It transmits a code on the currently active channel and sounds an alarm on the radio when pressed. It can be enabled or disabled.

Options: ALARM/OFF

Default: ALARM

[19: CH-MDF] Channel Display Mode

Function: Select how a channel is displayed on the screen.

Options: CH/NAME/FREQ

Default: NAME

CH: Display only the internal radio channel number (Example: CH-001)

NAME: Display the name assigned to the channel (Example: CH01)

CHFREQ: Display the receive frequency (Example: 462.56250)

[20: WT-LED] Standby Backlight

Function: Select one of three customizable backlight colors when the backlight is acti-

Menu Functions

vated while the radio is in standby. You can also turn the backlight off.

Options: BLUE/ORANGE/PURPLE/OFF

Default: BLUE

[21: RX-LED] Receive Backlight

Function: Select one of three customizable backlight colors when the backlight is activated while the radio receives a signal. You can also turn the backlight off.

Options: BLUE/ORANGE/PURPLE/OFF

Default: PURPLE

[22: TX-LED] Transmit Backlight

Function: Select one of three customizable backlight colors when the backlight is activated while the radio transmits. You can also turn the backlight off.

Options: BLUE/ORANGE/PURPLE/OFF

Default: ORANGE

[23: CH-NAME] Channel Name

Function: Allows you to edit the name for a channel. To edit a channel name, press

the [UP] and [DOWN] keys to select a character. Use the [PF2] side key to move to the next character. The [PF1] side key will move to the previous character. When you finish editing the name, press [MENU] to save.

Options: 6 Characters

Default: None

Troubleshooting

Before assuming your KG-805F is defective, please check the following list of possible problems and solutions. One of these solutions will often resolve common issues.

Problem	Solution
Receive indicator is on but no sound is heard.	<ul style="list-style-type: none">■ Check volume level.■ Disable CTCSS/DCS or be sure setting matches incoming transmission.■ Check squelch settings.
Keypad is unresponsive	<ul style="list-style-type: none">■ Check if keypad has been locked.■ Check if other keys are currently pressed
Unwanted interference is being received	<ul style="list-style-type: none">■ Enable CTCSS or DCS tone to filter out unwanted transmissions.■ Use a different channel
Transceiver transmits without PTT being pressed	Check if the VOX hands-free mode is active. If intentionally using VOX mode, adjust the sensitivity level.

Problem	Solution
Cannot power on	<ul style="list-style-type: none"> ■ Check that the battery pack is attached correctly. ■ Check that the battery pack is fully charged.
Battery life lower than expected	<ul style="list-style-type: none"> ■ Be sure the charger indicates the battery is fully charged. ■ The battery pack capacity will naturally diminish over a number of charge cycles. This is the case with all lithium batteries.

Technical Information

Specifications

Frequency range	TX: FRS Frequencies
	RX: 400-470.9875MHz
	FM Radio RX: 76-108MHz
Channels	128 channels
Voltage	7.4V DC
Operating temperature	-30°C (-22F) to + 60°C (140F)
Power output	≤2 Watts
Mode	F3E (FM)
Maximum deviation	≤ ±5KHz
Adjacent channel power	< -60dB
Stability	±5 ppm
Sensitivity	< 0.2 μV
Audio output power	≥500mW
Weight	8.67oz (246g)
Waterproof	IP55
Size	2.46 x 4.72 x 1.57 inches (62.5 x 120 x 40 mm)

Standard CTCSS and DCS Tones

The following is a list of the standard CTCSS and DCS tones supported by the KG-805F. Many FRS or GMRS radios display a number instead of a specific tone. The number to the left of the tone matches what is used by most manufacturers.

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

Technical Information

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

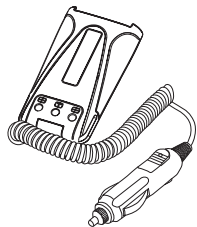
Default FRS Channels and Frequencies

Simplex Channels

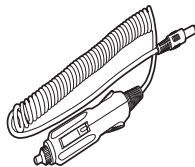
Ch.	Name	Frequency	Power
1	CH01	462.5625	2W
2	CH02	462.5875	2W
3	CH03	462.6125	2W
4	CH04	462.6375	2W
5	CH05	462.6625	2W
6	CH06	462.6875	2W
7	CH07	462.7125	2W
8	CH08	467.5625	0.5W
9	CH09	467.5875	0.5W
10	CH10	467.6125	0.5W
11	CH11	467.6375	0.5W

Ch.	Name	Frequency	Power
12	CH12	467.6625	0.5W
13	CH13	467.6875	0.5W
14	CH14	467.7125	0.5W
15	CH15	462.5500	2W
16	CH16	462.5750	2W
17	CH17	462.6000	2W
18	CH18	462.6250	2W
19	CH19	462.6500	2W
20	CH20	462.6750	2W
21	CH21	462.7000	2W
22	CH22	462.7250	2W

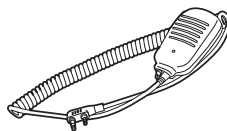
Optional Accessories



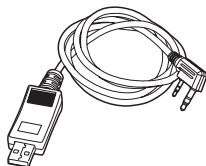
Eliminator



Car charger



Speaker/Mic



USB programming cable



Headset

Shop Wouxun Accessories:

www.buytwowayradios.com/accessories/by-radio-brand/wouxun-radio-accessories.html

We warrant this product against defects in material and workmanship as follows:

Radio and its original primary components for a period of one (1) year from date of purchase.

Accessories (including battery, charger, belt clip, antenna and adapter) for a period of six (6) months from date of purchase.

This warranty is limited to the repair and replacement of the defective components and is not valid if the radio has been tampered with, misused, abused, used with unapproved accessories, subjected to unauthorized disassembly, unauthorized repair, replacement of unauthorized parts, unavoidable conditions, human destruction, water damage or environmental damage. This warranty is void if the serial number is defaced or altered.

If service, repair or replacement is required within the warranty period, such repair or replacement will be made free of charge by the dealer through whom the equipment was purchased. If the owner requires any service or repair from any dealer through whom the equipment was not purchased, the cost of repair must be made by the owner.

This warranty is valid for the original purchaser or owner of the product and is not

Limited Warranty

transferable.

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