Thank you for purchasing the Wouxun KG-S84B portable business radio.

Your feedback makes our products better. Please share your thoughts.

feedback@buytwowayradios.com
www.buytwowayradios.com

Contents

Safety Information $\varnothing$ wouxun

The KG-S84B 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 supplied antenna is tuned for the frequencies supported by this transceiver. Using an aftermarket antenna can 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.

Safety Information

⚠ 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-S84B 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.

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.

Safety Information

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-S84B is FCC Part 90 type accepted for use on the business band. The KG-S84B operates on UHF business frequencies according to the Federal Communications Commission (FCC) Rules in the United States. As such, a business radio license is required to transmit on these frequencies. To obtain an FCC license for the your business, go to the FCC's web site and complete the online application. For assistance with the FCC licensing process, visit https://www.buytwowayradios.com/services/radio-licensing.html.

Feature Summary

- Up to 256 Custom Channels
- Up to 16 Groups (16 Channels per Group)
- 89 Business Frequencies
- Up to 2 Watts Output Power
- 16 Pre-Programmed Channels (for out-of-the-box compatibility)
- 50 CTCSS Tones / 105 DCS Codes
- IP65 Waterproof
- USB-C Charging Port
- High/Low Power Selectable
- Standard and Non-Std CTCSS/DCS
- Channel Scan
- Priority Channel Scanning

- Superheterodyne Receiver
- Companding
- Call ID
- Monitor Function
- DTMF Support
- Battery Level Indicator
- VOX
- English Voice Guide
- Narrowband Compliant
- Built-in Flashlight
- 2 Configurable Side Keys
- Configurable Top Key
- Alarm and SOS Functions
- PC Programmable

What's Included

Carefully unpack the contents of the box and be sure that you have the items in the list below. If any items are missing or damaged, please contact your dealer.
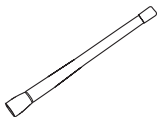
Transceiver	High gain antenna	Lithium-ion battery pack	Intelligent charger
Belt clip	Handstrap	User's manual	
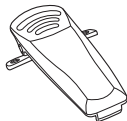
Remark:only the supplied accessory should be used.

Front Panel Guide

Antenna

Channel Knob

Volume Knob

Flashlight

Top Key

RX/TX LED (Green/Red)

Speaker

Microphone

Right / Left Side Guide

Earphone Jack

USB Charging Port

Transmit/PTT Key

PF1
Short Press: BATTERY
Long Press: SCAN

PF2
Short Press: FLASHLIGHT
Long Press: MONITOR

Note: Defaults are shown for PF1 / PF2.
These buttons can be assigned different
functions in the programming software.
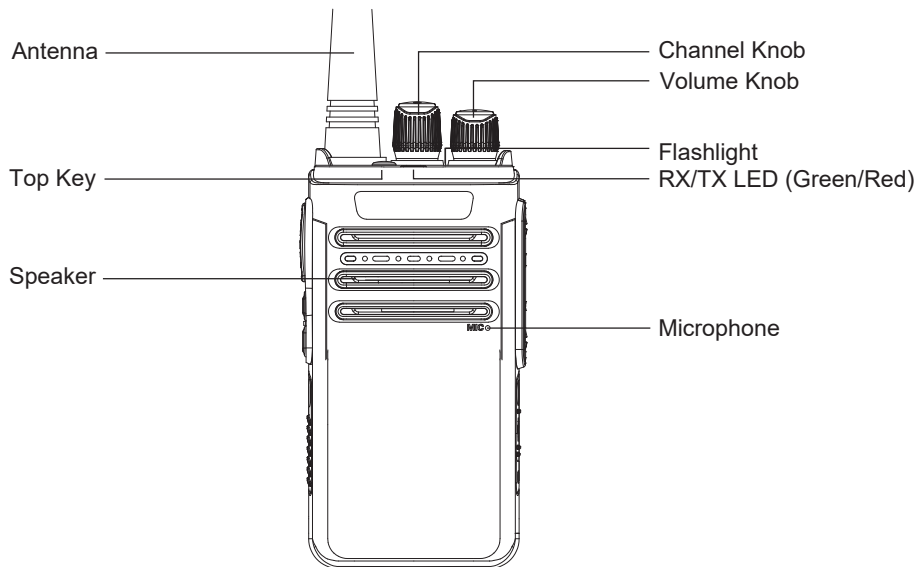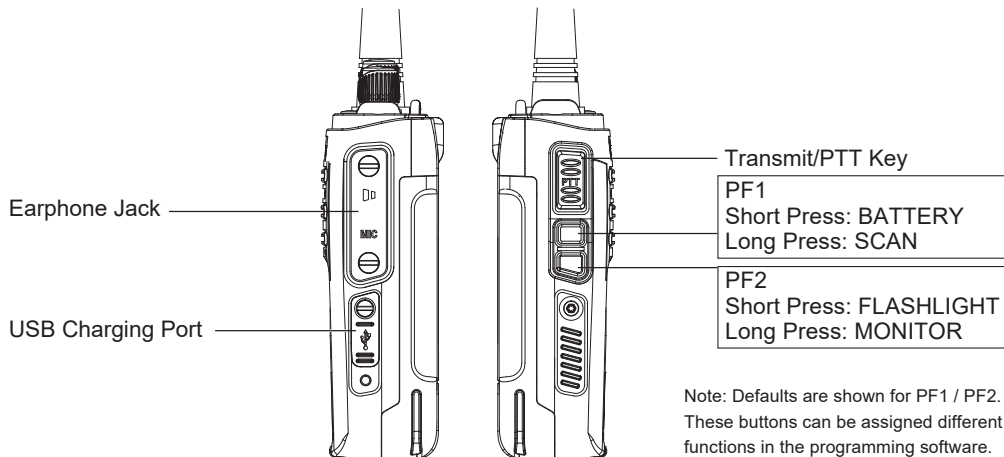
Dust and Water Protection

The KG-S84B is waterproof to IP65 standards. It is dust resistant and rated to withstand any ingress of solid objects. It can withstand direct jets of water projected by a nozzle (6.3 mm) against the enclosure for a limited period. This radio is dust and waterproof only while the battery is properly installed and locked in place with no gaps and all ports are completely sealed with their port covers. Use of a headset or other accessory will negate the dust and waterproofing features of this radio. Do not attempt to operate this radio if it has been submerged in water.

- 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.

Installing and Removing the Battery

The lithium-ion battery pack included with the radio is not fully charged out of the box. It is recommended to charge it before using the radio for the first time.

Installing the Battery

Slide the battery pack up along the back of the radio until it stops. Then push the bottom of the battery towards the radio until it clicks into place.

Removing the Battery

Pull the release latch toward the three battery contacts. While holding the release latch in place, press down on the top end of the battery pack and slide the battery pack down and off the radio.

Charging the Battery

The KG-S84B features two charging options for the battery pack. It can be charged using the included desktop charger or the built-in USB-C port on the side of the radio.

Charging with the Desktop Charger

The KG-S84B includes an intelligent desktop charger. It can charge the battery pack with or without the radio attached.

1. Insert the AC plug into an available 100~240v outlet. The LED light on the charger base will flash red for 2-3 seconds. This indicates the charger is in standby mode.

2. Insert the battery or radio with the battery attached into the charger. The LED light on the charger will turn red to indicate the battery is charging.

3. When the LED light on the charger turns green, charging is complete.

Note

- When a completely drained battery is first inserted into the charger, the charger will switch to trickle charge mode and the LED will flash red continuously.
- After 10-20 minutes the charger will switch to normal charging mode and the light will turn solid red. The LED will turn green when charging is complete.

Charging with the USB-C Port

The KG-S84B can charge the battery from the USB-C charging port on the side of the radio using an optional USB-C cable (not included). The battery pack can be fully charged with a USB cable connected to a USB to AC adapter plugged into an AC outlet or a to a USB port in a vehicle, power bank or computer.

When the radio is connected to a power source through the USB-C charging port with a battery attached, the LED at the bottom of the port will light up red to indicate the battery is charging. The LED will turn green when charging is complete.

In addition to the charging option, the radio can be powered directly via the USB-C port while charging battery pack. It can also operate on power supplied through the USB port with or without the battery attached.

Antenna Information

The KG-S84B includes an antenna with an SMA female connector that is tuned for the frequency range of your radio. Aftermarket antennas may be used, provided they are tuned for this frequency range.

Warning: To avoid injury, DO NOT attempt to operate your radio if the antenna is damaged or defective. DO NOT attempt to operate your radio without an antenna connected to the radio. Transmitting without an antenna or a correctly tuned antenna directly and properly connected to the radio may damage the radio and void the warranty.

Installing the Belt Clip

The belt clip attaches to the back of the radio with the two supplied screws. To install the belt clip, press it against the back of the unit and line up the screw holes. Insert each screw one at a time and tighten until there is no further resistance and the belt clip is firmly attached to the radio. Do not overtighten the screws.

Programming Your Radio

The KG-S84B includes many advanced features that are only available using the optional Wouxun programming software and cable. The software is available as a free download. The 2-pin Wouxun programming cable (PCO-001) is an optional accessory. Both are available at BuyTwoWayRadios.com.

Introducing the KG-S84B

The KG-S84B was designed for businesses and organizations that need a full featured analog business radio without complicated preconfiguration. Right out of the box, this radio is configured to allow you to transmit on 16 pre-loaded channels for instant compatibility with many other popular business radios. This radio can also be customized for your licensed frequency(ies). Using the KG-S84B programming software, you can choose from a list of 89 business frequencies that can be assigned to 16 channels in 16 groups, for a total of 256 customized channels.

Read this chapter to learn the basics of using your new KG-S84B 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-S84B for the first time, the radio will announce the current channel group number, emit a short tone, and announce the current channel number. Turn the Channel Knob to navigate through the available channels for your licensed frequency(ies).

Be sure the channel you choose is the same channel that 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.

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.

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

Channels

The KG-S84B is pre-configured with 16 default business frequencies out of the box, but allows users to choose from 89 business frequencies and save them to a maximum of 256 custom channels with optional programming software.

The KG-S84B can only transmit and receive on business frequencies in the UHF band.

Privacy Codes

The KG-S84B supports 50 CTCSS tones and 105 DCS code, for a total of 155 pri-

vacy 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 through the user programming software.

Channel Scan

The KG-S84B has a channel scan feature, which is assigned to the [PF1] key by default. To activate Channel Scan, press and hold the [PF1] key for two seconds or until you hear "Scan Begin". The radio will scan each channel for activity, starting from the current channel.

To stop the scan, press and hold the [PF1] key for two seconds or until you hear "Scan Stop". Pressing the [PF2] or [TOP] key or turning the channel knob will also stop the scan. Refer to Scan Mode (page 22) for more information on the types of scans available.

 The scan function can also be disabled or otherwise assigned to the programmable PF1,

PF2 or TOP buttons through the programming software.

Priority Channel Scan

The KG-S84B 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 channel list in the following order:

1 ▸ 3 ▸ 2 ▸ 3 ▸ 3 ▸ 3 ▸ 4 ▸ 3 ▸ 5 ▸ 3 ▸ ...

Priority Channel Scan can be set and activated with the user programming software.

Scan Mode

The KG-S84B has three scan mode settings as described below.

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 immediately 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.

The default setting is TO. These scan mode options can only be configured and modified using the programming software.

VOX

The VOX function allows you to transmit without pressing the PTT key. When active, VOX will detect that you are speaking into the microphone and then automatically begin transmitting. VOX is disabled by default. It can be activated and configured using the programming software.

Squelch Level

The squelch function mutes the speaker when no signal is detected. Adjusting the squelch sensitivity allows you to control how strong of a signal is required in order to unmute the speaker. 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. Squelch is set to (5) by default. It can be adjusted through the programming software.

Transmit Overtime Timer

When the transmission time exceeds the time set by the Transmit Overtime Timer, the unit will emit an error prompt and stop transmitting. The KG-S84B is set to time out the transmission after 60 seconds. It can be disabled or adjusted from 15 seconds to 900 seconds in 15 second increments through the programming software.

Timeout Timer Alert

The Transmit Overtime Alarm warns when the Transmit Overtime Timer is about to

be exceeded. The red TX indicator LED on top of the radio flashes to indicate an alarm. The alarm indicates the amount of time prior to the Transmit Overtime Timer expiring that the warning will begin. The alert is off by default. It can be enable and set to a maximum time limit of 10 seconds through the programming software.

Beep Tone

The KG-S84B will emit an audio prompt to alert the operator of a key press. It is enabled by default and can be disabled through the programming software.

Roger Beep

The KG-S84B can produce an audible roger beep prompt during transmission. This feature is disabled by default. It can be configured in the programming software to one of the following settings:

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

Compander

Ths KG-S84B has a compander option to minimize noise during transmission. The compander is useful when transmitting over long distances.

If the compander is activated on the KG-S84B, it should also be activated across your entire fleet of radios. Audio may sound poor if one radio has the compander activated and others don't. If the audio is poor when using the KG-S84B with radios from other brands, check the compander, as some brands enable companding by default.

It is off by default and can be enabled through the programming software.

Programmable Key Functions

The KG-S84B has two programmable keys called [PF1] and [PF2] located on the left side of the radio below the PTT key. It also has a programmable [TOP] key. Each key can perform two different functions, one activated with a short press and one with a long press.

These functions can be assigned to the [PF1], [PF2] and [TOP] buttons from the

programming software. Default functions are pre-programmed into the radio out of the box. They can also be disabled or re-assigned via the programming software.

Default Key	Function	Description
	ALARM	Transmit alarm (page 30)
PF1 Short	BATTERY CHECK	Battery status indicator (page 28)
	CALL	Sends a call ID (page 29)
PF1 Long	SCAN	Scan function (page 21)
	TXPOWER	Transmit power level (page 29)
PF2 Short	FLASHLIGHT	Activate flashlight (page 28)
PF2 Long	MONITOR	Monitor channel (page 29)
	SOS	Transmit SOS (page 31)
	VOX	Activate VOX (page 23)
	GROUP UP	Navigate up channel groups (page 30)
	GROUP DOWN	Navigate down channel groups (page 30)

Operation

Default Key	Function	Description
TOP Short	OFF	Key not assigned
TOP Long	OFF	Key not assigned

Battery Check

The BATTERY CHECK function uses the LED on the top of the radio to indicate the current battery status and notify you when battery power is low. It is assigned to a short press of the [PF1] key by default, but can be disabled or otherwise assigned to the [PF1], [PF2] or [TOP] key using the programming software.

3 Green Flashes - Fully charged
2 Green Flashes - 50% charged
1 Green Flash - 30% charged
Red Flashes - Near depletion, recharge the battery.

Flashlight

The KG-S84B has a built-in LED flashlight at the top of the radio. It is assigned to

the [PF2] by default, but can be disabled or otherwise assigned to the [PF1], [PF2] or [TOP] key using the programming software.

Call

The KG-S84B allows you to send the Call code set in the CALL-ID feature. It can be assigned to the [PF1], [PF2] or [TOP] key using the programming software.

Monitor

The MONITOR function opens squelch on the current channel. This is useful when listening for weak transmissions. It is assigned to a long press of the [PF2] key by default, but can be disabled or otherwise assigned to the [PF1], [PF2] or [TOP] key using the programming software.

Transmit Power

This function sets the transmit power of the radio. The KG-S84B has two power options: Low (0.5W) and High (2W). Wattage is approximate. It is preset to 2 watts on all channels by default, but can be toggled if the function is assigned to the [PF1], [PF2]

or [TOP] key or programmed for each channel individually using the programming software.

Group Up/Down

The KG-S84B can be programmed with up to 16 groups, each containing 16 channels. The radio is pre-programmed to use the 16 channel positions on Group 1 out-of-the box, but can be changed to another group using the GROUP UP and GROUP DOWN features. GROUP UP advances to the next higher group number. GROUP DOWN moves to the next lower group number. If the next channel group does not contain any channels, the radio will move to the next channel group that does contain a channel.

GROUP UP and GROUP DOWN can be assigned to the [PF1], [PF2] or [TOP] keys using the programming software.

Alarm

The radio features an alarm function with an ANI ID code. When activated, the radio will transmit an ANI ID code plus the numbers "110" on the active channel and emit

an oscillating alarm for 8 seconds, then repeat. Press any key to deactivate the alarm.It is disabled by default, but can be assigned to the [PF1], [PF2] or [TOP] key using the programming software.

SOS

The radio can transmit an SOS alarm to other stations on the same channel. When SOS is activated, the radio will emit an oscillating alarm. After about 5 seconds, the radio will transmit the alarm for 10 seconds. After 5 minutes, the SOS alarm will repeat. To activate the SOS function, it must first be assigned to the [PF1], [PF2] or [TOP] key using the programming software.

Troubleshooting

Before assuming your KG-S84B is defective, please check the following list of possible problems and solutions.

Problem	Solution
Receive indicator is on but no sound is heard.	■ Check volume level. ■ Disable CTCSS/DCS or be sure setting matches incoming transmission. ■ Check squelch settings.
Unwanted interference is being received	■ 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.
Cannot power on	■ Check that the battery pack is attached correctly. ■ Check that the battery pack is fully charged.

Troubleshooting   Ⓦ wouxun

Problem	Solution
Battery life lower than expected	■ 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.

Specifications

Entire Radio	
Frequency Range	400-470 MHz (UHF)
Memory Channels	256
Frequency Stability	±2.5 PPM
Work Temperature	-30°C~+60°C / -22°F~140°F
Antenna Impedance	50Ω
Power Supply	7.4VDC
Weight	7.94oz / 225g
Size	4.53 × 2.14 × 1.36 (in) / 115 × 54.3 × 34.6 (mm)
Dust/Waterproof	IP65

Receiver		*Transmitter*	
Adjacent Channel Selectivity	≤60dB	RF Carrier Power	2W
Inter-modulation	≤65dB	Adjacent Channel Power	≥60dB
Resistance	≤84dB	Spurious	≤-30dBm
Audio Response	+1~3dB (0.3~3KHz)	Audio Modulation	+3dB (0.3~2.55KHz)
Audio Distortion	≤5%	Max Frequency Offset	±2.5KHz
Output Power	500mW	Frequency Stability	±2.5ppm
Sensitivity	0.16μV (12dB SINAD)	Modulation Distortion	≤10%

Standard CTCSS and DCS Tones

The following is a list of the standard CTCSS and DCS tones supported by the KG-S84B. Many radios display a number instead of a specific tone. The number to the left of the tone matches what is used by some 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

DCS codes ending in *N* are positive. Negative DCS codes end in *I*. The KG-S84B includes 105 positive and 105 negative codes.

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 Frequencies

The following channels are pre-programmed to default business frequencies.

Channel	Frequency	CTCSS Tone	Channel	Frequency	CTCSS Tone
G1-1	464.5000	67.0	G1-9	464.5000	67.0
G1-2	467.9250	67.0	G1-10	467.7625	67.0
G1-3	461.0375	67.0	G1-11	467.8125	67.0
G1-4	461.0625	67.0	G1-12	467.8500	67.0
G1-5	461.0875	67.0	G1-13	467.8750	67.0
G1-6	461.1125	67.0	G1-14	467.9000	67.0
G1-7	461.1375	67.0	G1-15	461.1875	67.0
G1-8	461.1625	67.0	G1-16	461.2125	67.0

Available Frequencies

**The KG-S84B supports 89 business frequencies via programming software.**

Available Frequencies						
451.1875	452.8625	457.7625	461.2625	462.8375	466.0875	466.3375
451.2375	456.1875	457.8625	461.2875	462.8625	466.1125	466.3625
451.2875	456.2375	461.0375	461.3125	462.8875	466.1375	467.1875
451.3375	456.2875	461.0625	461.3375	462.9125	466.1625	467.4625
451.4375	456.3375	461.0875	461.3625	464.4875	466.1875	467.4875
451.5375	456.4375	461.1125	462.1875	464.5000	466.2125	467.5125
451.6375	456.5375	461.1375	462.4625	464.5125	466.2375	467.7625
452.3125	456.6375	461.1625	462.5125	464.5375	466.1875	467.7875
452.4125	457.3125	461.1875	462.7625	464.5625	466.2625	467.8125
452.5375	457.4125	461.2125	462.7875	466.0375	466.2875	467.8375
452.7625	457.5125	461.2375	462.8125	466.0625	466.3125	467.8500

Technical Information

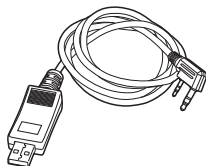| Available Frequencies						
467.8625	467.8875	467.9125	469.4875	469.5125	469.5375	469.5625
467.8750	467.9000	467.9250				
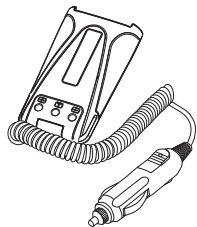
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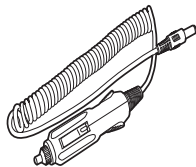
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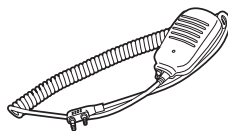
Speaker/Mic

USB programming cable

Headset

Shop Wouxun Accessories:

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

Limited Warranty

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

transferable.

THIS LIMITED WARRANTY IS THE ENTIRE WARRANTY FOR THIS PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EITHER EX-PRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANT-ABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRAN-TY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF ANY DAMAGES, INCLUDING INCIDENTAL OR CONSE-QUENTIAL DAMAGES RELATED TO THE USE OF THIS PRODUCT. Some states do not allow this exclusion or limitation of damages so the above limitation or exclusion may not apply to you. This warranty is valid only within the United States of America.

Note: Product features, specifications and warranty terms are subject to revision by the manufacturer without notice. We are not responsible for unintentional errors or omissions on product packaging.