

Thank you for purchasing the Wouxun KG-S74A portable aviation radio.

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

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## Safety Information

The KG-S74A 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.

- ⚠ 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.
- ⚠ Only the carry accessories supplied with this radio (such as the belt clip) should be used. Use of other accessories may exceed RF exposure guidelines.

### Notice

- These tips are important for safe operation of your KG-S74A 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.**

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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.

## **Safety Information**

- Consult the dealer or an experienced radio/TV technician for help.

### **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-S74A is FCC Part 87 type accepted for use on the Aviation Radio Service. The KG-S74A operates on Aviation Radio Service (ARS) frequencies according to the Federal Communications Commission (FCC) Rules in the United States. CB 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

- Up to 400 Custom Channels
- Up to 6 Watts (PEP) Output Power
- 118.00-136.99 MHz
- NOAA Weather Channels
- NOAA Weather Alerts
- 5 Weather Alert Notifications
- Tune Specific Frequencies Directly (Frequency Mode)
- LCD Display
- Display Channel Name, Number, or Frequency
- IP67 Waterproof
- USB-C Charging Port
- Channel Scan
- Priority Channel Scanning
- Superheterodyne Receiver
- Monitor Function
- VOX
- English Voice Guide
- Built-in Flashlight
- 2 Configurable Side Keys
- Configurable Top Key
- Rechargeable Lithium-ion Battery
- PC Programmable

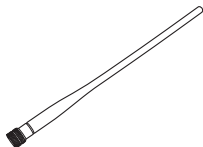
## Getting Started

### 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



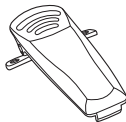
High Gain Antenna



Lithium-ion Battery Pack



Intelligent Charger



Belt Clip



Wrist Strap

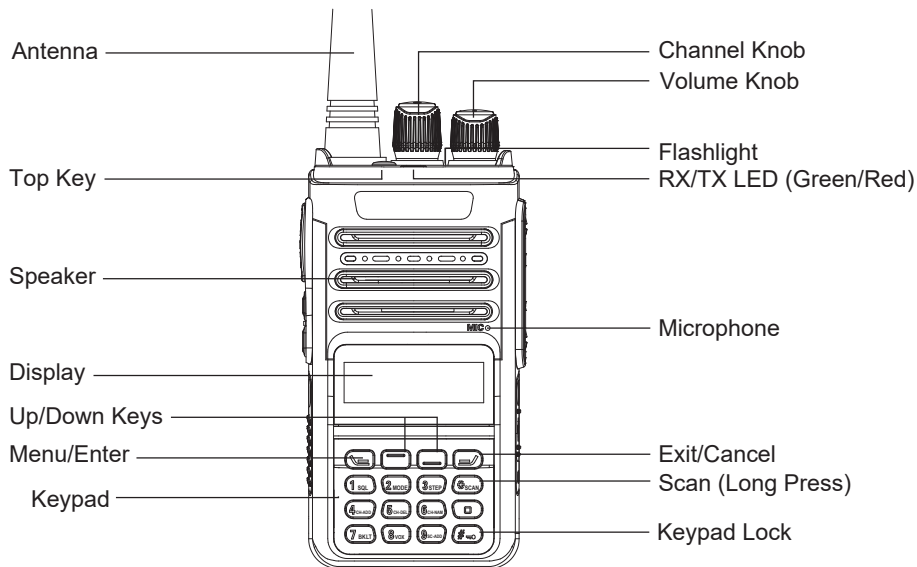


User's Manual



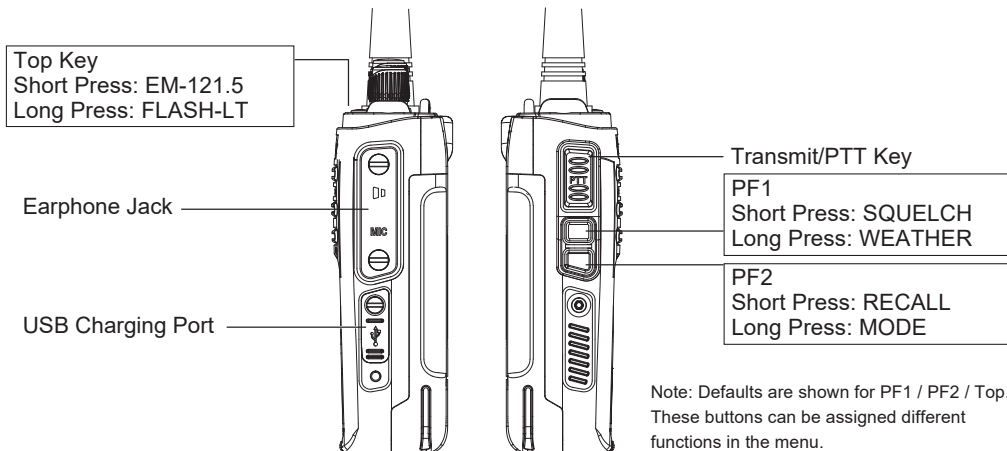
BNC Adapter

## Front Panel Guide

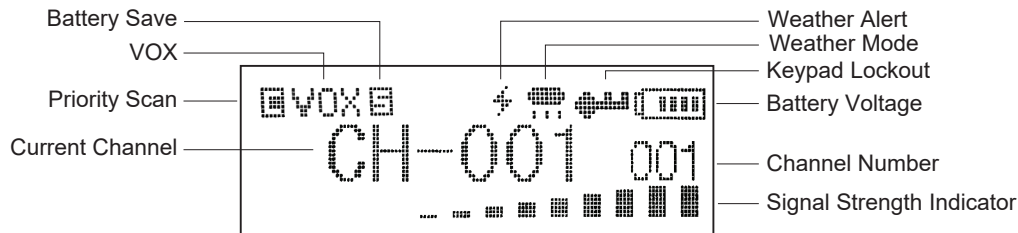


## Getting Started

### Right / Left Side Guide



# Display Guide



### Dust and Water Protection

The KG-S74A is waterproof to IP67 standards. It is dust resistant and rated to withstand any ingress of solid objects and can withstand immersion in up to 1 meter of water for up to 30 minutes. 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 using the original supplied standard screws (not the thumbscrew). 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 deeper than 1 meter.

- 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.
- If the screws and/or port covers are removed, the radio is no longer IP67 compliant.
- Use only the supplied standard screws to seal the port covers (not the thumbscrew).

## **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-S74A 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.

## Getting Started

### Charging with the Desktop Charger

The KG-S74A 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-S74A 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 the battery pack.

### Antenna Information

The KG-S74A 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. An SMA Female to BNC adapter is included for connecting to mobile antennas.

## Getting Started

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.

## Introducing the KG-S74A

The KG-S74A is a compact, powerful portable handheld aviation radio that can be configured according to your needs. Right out of the box this radio is designed to transmit on your selected airband frequencies with no special programming required.

This radio can also be customized. Using the KG-S74A menu options, you can assign your favorite airband radio frequencies to up to 400 customized channels directly from the keypad of the radio. It can also be configured using optional programming software.

Read this chapter to learn the basics of using your new KG-S74A 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 or Frequency

When you power on your KG-S74A for the first time, the screen will likely display “118.000” in the center area. This is the currently frequency. Turn the Channel Knob or the [UP] / [DOWN] keys to navigate through the list of frequencies.

#### Transmitting and Receiving

With a channel or frequency selected, the radio is actively “listening” for an incoming signal. When a signal is detected, the transmission will be heard through the radio’s speaker. Please note, the Squelch setting (page 39) determines how strong a signal needs to be in order to be detected.

To transmit, first be sure the channel or frequency 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.

## Channel and Frequency Modes

The KG-S74A supports tuning frequencies via two methods: channel and frequency modes.

In channel mode, frequencies that have been saved can be selected from the channel list. This is the most convenient way to access commonly used frequencies. The KG-S74A allows users to save up to 400 custom channels. In channel mode, turning the Channel/Frequency Knob or pressing the [UP] / [DOWN] keys will tune to the next channel in the list.

Frequency mode (also referred to as VFO mode) allows you to tune directly to a specific frequency regardless of the frequency having been previously saved. In frequency mode, turning the Channel/Frequency Knob or pressing the [UP] / [DOWN] keys will tune to a higher or lower frequency, depending on which key is pressed. The STEP menu option (page 40) allows you to adjust the step between each frequency. To enter a

## Operation

frequency directly, type the frequency using the keypad.

The KG-S74A supports the following frequency band:

| KG-S74A Frequency Band  |
|-------------------------|
| 118.000 - 136.99166 MHz |

The KG-S74A can only transmit on aviation frequencies. All available frequencies entered in Frequency mode or through the programming software can be programmed into channels. The MODE menu option (page 39) allows you to switch between Channel and Frequency modes.

## Channels

The KG-S74A supports 400 customizable memory channels. Instructions for adding and deleting channels are located in the Advanced Operations section (page 55).

The KG-S74A can only transmit and receive on frequencies in the aviation band.

## Channel Scan

The KG-S74A has a channel scan feature. To activate Channel Scan, press and hold the [\*SCN] key for two seconds or until you hear “Scan Begin”. The radio will scan each channel for activity, starting from the current channel. The Scan feature also works in Frequency Mode.

Pressing the [UP] / [DOWN] keys while scanning will change the direction of the scan from low to high ([UP]) or high to low ([DOWN]). Turning the channel knob will also change direction of the scan.

To stop the scan, press the [\*SCN] until you hear “Scan Stop”. Pressing the [PF1], [PF2] or [TOP] key will also stop the scan. Refer to Scan Mode (page 42) for more information on the types of scans available.

Individual channels can be added or removed from the scan list using the Scan Add [SCAN-ADD] menu option (page 42).

The scan function can also be assigned to the programmable PF1, PF2 or TOP buttons from the menu (pp. 50-52).

### Priority Channel Scan

The KG-S74A 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 ▶ ...

To set a priority channel, use the [PRI-CH] menu item (page 44). To activate the Priority Channel Scanning feature, use the [PRI-SCAN] menu item (page 43). Individual channels can be added or removed from the scan list using the Scan Add [SCAN-ADD] menu option (page 42).

## NOAA Weather Mode

NOAA Weather Mode allows you to quickly access weather information from a local NOAA broadcast station.

To activate NOAA Weather Mode, press the appropriate PF key if one has been assigned to the WEATHER function. The display will change to show a NOAA broadcast station frequency starting with 162 MHz and a rain cloud icon will appear above it to indicate the radio is in Weather Mode. Use the Channel/Frequency Knob or the arrow keys to navigate to your preferred NOAA station. Your most recently selected station will be remembered each time you enter this mode.

A list of supported NOAA frequencies is included in the Technical Information chapter of this manual (page 63).

To exit Weather Mode, press the appropriate PF key assigned to the WEATHER function or press and hold the [EXIT] key for 2 seconds. The radio will return to the last channel or frequency accessed.

## Operation

To locate the NOAA station closest to your location, visit the following site:

[https://www.weather.gov/nwr/station\\_listing](https://www.weather.gov/nwr/station_listing)

### Weather Alert

The KG-S74A features a Weather Alert option (page 44). When Weather Alert mode is active and the radio is in standby mode, the KG-S74A will monitor the currently selected weather channel for an alert tone (1050Hz) that indicates a weather warning or alert has been issued.

When a weather alert has been detected, the KG-S74A will produce an alert according the option chosen in the WX-NOTIFY menu function (page 44). For all WX-NOTIFY alert options other than WEATHER, pressing any key will acknowledge and end the alert.

The five alert options are listed in the following chart.

| Alert Option | Alert Description                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------|
| ICON-ONLY    | Displays weather alert icon and radio remains on regular channel.                                         |
| TONE         | Displays weather icon and emits an alert beep every 60 seconds.                                           |
| FLASH        | Displays weather icon and flashlight LED pulses 5 times every 60 seconds.                                 |
| TONE+FLSH    | Displays icon, emits alert and the flashlight LED pulses every 60 seconds.                                |
| WEATHER      | Displays weather icon and radio instantly tunes to Weather Mode. Hold the EXIT key for 2 seconds to exit. |

## Keypad Hotkeys

The keypad features hotkeys for faster access to the first nine menu options. When the radio is in MENU mode, press the desired hotkey to go directly to that option and press the UP / DOWN arrow keys to choose the desired setting. Press [MENU] to

## Operation

confirm, then press [EXIT] to save the setting and exit the menu.

| Key | Hotkey | Function/Menu Item                              |
|-----|--------|-------------------------------------------------|
| 1   | SQL    | Squelch menu function (page 39)                 |
| 2   | MODE   | Channel display mode menu function (page 39)    |
| 3   | STEP   | Frequency step menu function (page 40)          |
| 4   | CH-ADD | Add memory channel menu function (page 40)      |
| 5   | CH-DEL | Delete memory channel menu function (page 40)   |
| 6   | CH-NAM | Channel name menu function (page 41)            |
| 7   | BKLT   | Backlight menu function (page 41)               |
| 8   | VOX    | VOX menu function (page 42)                     |
| 9   | SC-ADD | Scan channel add/delete menu function (page 42) |

## Note

For instant access to any menu option while in the menu, simply enter the number of the menu option into the keypad. This is a faster and more convenient method of locating a specific menu option than by using the [UP] and [DOWN] keys or the Channel Knob.

## Key Lock

The buttons on the KG-S74A can be locked to prevent them from being accidentally pressed. When the Key Lock is enabled, buttons and other controls will be disabled according to the options chosen in the [LOCKMODE] menu item (page 49)

To activate the Key Lock, press and hold the [#LOCK] key for two seconds. The key icon will appear at the top of the display. The buttons are now disabled.

To disable the Key Lock, press and hold the [#LOCK] key for two seconds. The key icon will disappear from the top of the display. The buttons should now be enabled.

### Keypad Function Keys

The keypad includes 6 function keys to perform specific operations on the radio, from accessing and navigating the menu to the control of various functions. The chart below lists the keys and what they do.

| Key   | Function                                             |
|-------|------------------------------------------------------|
| *SCAN | Long Press: Channel/Frequency Scan (page 27)         |
| #LOCK | Press 2 seconds to lock/unlock keypad (page 33)      |
| MENU  | Enter menu, select options and save to the radio     |
| EXIT  | Exit the menu or cancel a function                   |
| UP    | Goes to the next channel, frequency or menu item     |
| DOWN  | Goes to the previous channel, frequency or menu item |

### Programmable Key Functions

The KG-S74A 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 menu (pp. 50-52). They can also be assigned via the programming software.

| Default Key | Function | Description                             |
|-------------|----------|-----------------------------------------|
|             | BACK-LT  | Activates backlight (page 36)           |
| PF1 Short   | SQUELCH  | Squelch menu option (page 39)           |
| PF1 Long    | WEATHER  | Activates Weather Mode (page 29)        |
| PF2 Short   | RECALL   | Activates recall function (page 37)     |
| PF2 Long    | MODE     | Switches work modes (page 25)           |
|             | MONITOR  | Monitor channel (page 36)               |
| TOP Short   | EM-121.5 | Activates emergency frequency (page 37) |
| TOP Long    | FLASHLT  | Activates flashlight (page 36)          |

## Operation

### Display Backlight

The KG-S74A allows you to activate the backlight for the display using a programmable key. When activated, the backlight will remain on for the duration of the time set in the BACK-LT menu option (page 41). It can be assigned to the [PF1], [PF2] or [TOP] key using the menu (pp. 50-52).

### Flashlight

The KG-S74A has a built-in LED flashlight at the top of the radio. It is assigned to a long press of the [TOP] key by default, but can be disabled or otherwise assigned to the [PF1], [PF2] or [TOP] key using the menu (pp. 50-52).

### Monitor

The MONITOR function opens squelch on the current channel. This is useful when listening for weak transmissions. It is disabled by default, but can be assigned to the [PF1], [PF2] or [TOP] key using the menu (pp. 50-52).

## Recall

This function returns to the previously tuned frequency or channel. Frequencies or channels tuned for more than 5 seconds will be activated as the next RECALL frequency. When the RECALL option is pressed, the radio will go to the RECALL channel or frequency and set the new RECALL channel/frequency to the previously active channel.

For example, the radio is tuned to 118.500 in frequency mode and the user enters frequency 120.630. After a few minutes, RECALL is pressed and the frequency immediately goes back to 118.500. Pressing RECALL again will return to 120.630.

## EM-121.5

This function is reserved for emergency communications. When activated, this function changes the radio to frequency mode and tunes to the civilian aircraft emergency frequency 121.5. It is assigned to a short press of the [TOP] key by default, but can be disabled or otherwise assigned to the [PF1], [PF2] or [TOP] key using the menu (pp. 50-52).

### Stopwatch Timer

The KG-S74A has a built-in stopwatch timer. It can be enabled using the TIMER menu option (page 48). Once enabled, Press [#LOCK] on the radio to activate the stopwatch. Press any key or turn the channel knob to stop the timer. When stopped, press [#LOCK] 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 timer mode if a signal is received on an active channel.

### [01: SQUELCH] Squelch

Function: 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 independently for each area.

Options: 0-9

Default: 5

### [02: MODE] Work Mode

Function: Changes the working mode of the radio. This function can be assigned to the [PF1], [PF2] or [TOP] programmable keys on the radio.

Options: CH-NAME/CH-NUM/FREQ/CH-FREQ

Default: FREQ

CH-NAME: Channel Mode. Displays the channel name (Example: NAME!)

FREQ: Frequency Mode. Allows direct tuning to any frequency supported by the KG-

## Menu Functions

S74A.

CH-FREQ: Channel Mode. Displays the channel frequency (Example: 118.100)

CH-NUM: Channel Mode. Displays the channel number (Example: CH-001)

### [03: STEP] Frequency Step

Function: Allows you to adjust the steps between frequencies. Available only in Frequency mode.

Options: 8.33K/25K/50K/100K

Default: 8.33K

### [04: CH-ADD] Add Memory Channel

Function: Adds a channel to the memory channel list.

Options: None

Default: None

### [05: CH-DEL] Delete Memory Channel

Function: Deletes a channel from the memory channel list.

Options: None

Default: None

### [06: CH-NAME] Channel Name

Function: Allows you to edit the name for the currently active channel. To edit a channel name, press [MENU] and choose the CH-NAME option. the name of the current channel will be in edit mode and the first character will flash to indicate it is currently being edited. Press the [UP] and [DOWN] keys to select the desired character, then press the [PF2] key to move to the next position. Press the [PF1] key to move back to the previous position. When you finish editing the name, press [MENU] to save. Not available in Frequency Mode.

Options: 8 Characters

Default: None

### [07: BACK-LT] Backlight Timeout

Function: Sets the timeout of the LCD display backlight while the radio is in standby. The timer can be set from 1-20 seconds in one second increments. It can also be set to turn off immediately or always remain on.

## Menu Functions

Options: OFF/1-20S/ALWAYS

Default: 10S

### [08: VOX] Voice Activated Transmit

Function: The VOX function allows you to transmit without pressing the PTT key. The VOX function will detect that you are speaking into the microphone and then automatically begin transmitting. VOX gain levels of 1-9 are provided to allow you to adjust the voice detection sensitivity.

Options: OFF/1-10 (level)

Default: OFF

### [09: SCAN-ADD] Scan Add / Delete

Function: Add or remove a channel to/from the list of channels to scan. Not available in Frequency Mode.

Options: ON/OFF

Default: ON

### [10: SCANMODE] Scan Mode

Function: Scan mode settings

Options: TO/CO/SE

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 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.

### [11: PRI-SCAN] Priority Scan

Function: Activates scanning of the Priority Channel. During scan, the priority channel will be scanned more frequently. Read the Channel Scan section (page 27) to learn more.

Options: ON/Rx Close/OFF

Default: OFF

Rx-Close: Detects priority channel activity while the area is not receiving a signal.

## Menu Functions

ON: Activity on a priority channel will supercede all incoming transmissions.

### [12: PRI-CH] Priority Channel

Function: Selects the priority channel. This is used during scanning when the Priority Scan (menu option 11) feature is enabled. To select a priority channel, use the [UP] and [DOWN] keys to select a channel number.

Options: 400 channels

Default: CH 001

### [13: WX-ALERT] Weather Alert

Function: Enables and disables the weather alert. Sets the alert for the currently selected NOAA weather channel.

Options: ON/OFF

Default: OFF

### [14: WX-NOTIFY] Weather Alert Notification Setting

Function: Sets type of notification for the alert when a NOAA weather alert signal is received.

Options: WEATHER/ICON-ONLY/TONE/FLASH/TONE+FLASH

Default: WEATHER

ICON-ONLY: Displays weather alert icon and radio remains on regular channel.

TONE: Displays weather icon and emits an alert beep every 60 seconds.

FLASH: Displays weather icon and flashlight LED pulses 5 times every 60 seconds.

TONE+FLASH: Displays icon, emits alert and flashlight LED pulses.

WEATHER: Displays weather icon and radio instantly tunes to Weather Mode.

### [15: BAT-SAVE] Battery Saver

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

Options: ON/OFF

Default: ON

### [16: VOX-DLY] VOX Delay

Function: Sets the number of seconds to delay turning off transmit after the VOX function no longer detects audio.

Options: OFF/1-5 (seconds)

## Menu Functions

Default: 1S

### [17: TOT] Transmit Overtime 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: 15-900 seconds (15 second increments)

Default: 60 seconds

### [18: TOA] Transmit Overtime Alarm

Function: The Transmit Overtime Alarm warns when the Transmit Overtime Timer (TOT) is about to be exceeded. The red TX indicator LED (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 prior to the Transmit Overtime Timer expiring that the warning will begin.

Options: OFF/1S-10S

Default: 5S

### [19: BEEP] Button Beeps

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

Selectable: ON/OFF

Default: ON

### [20: VOICE] Voice Guide

Function: Enable or disable voice prompts.

Options: OFF/ON

Default: ON

### [21: BUSYLOCK] 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: OFF

### [22: STARTUP] Power On Message

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

Options: MESSAGE/VOLTAGE

## Menu Functions

Default: MESSAGE

MESSAGE: Customized Message

VOLTAGE: Battery voltage

### [23: ST-MSG] Custom Power On Message

Function: Allows you to customize the Power On Message. To edit the message, press [MENU] and choose the ST-MSG option. the current message will be in edit mode and the first character will flash to indicate it is currently being edited. Press the [UP] and [DOWN] keys to select the desired character, then press the [PF2] key to move to the next position. Press the [PF1] key to move back to the previous position. When you finish editing the message, press [MENU] to save.

Options: 8 Characters

Default: KG-S74A

### [24: TIMER] Stopwatch Timer

Function: Activates the timer feature. If ON, activate the timer by short pressing [EXIT] in standby mode. Press [MENU] to stop the timer. Press the

[EXIT], [UP] or [DOWN] keys to exit the timer.

Options: ON/OFF

Default: OFF

### [25: AUTOLOCK] Auto Lock

Function: Automatically locks the keypad after a specified time. This can be set from 10 to 60 seconds, in 10 second increments.

Options: OFF/10-60S

Default: OFF

Note: To unlock the radio, hold the [EXIT] key for 2 seconds.

### [26: LOCKMODE] Lock Mode

Function: Select which keys are disabled when the radio is locked.

Options: KEY/KEY+PTT/KEY+ENC/ALL

Default: KEY

KEY: Locks the front keypad and [PF1] and [PF2] side keys.

KEY+PTT: Locks the front keypad, [PF1], [PF2] and [TOP] keys, and [PTT].

KEY+ENC: Locks the front keypad, [PF1] and [PF2] side keys, and channel knob.

## Menu Functions

ALL: Locks the front keypad, [PF1], [PF2], [TOP] keys, [PTT], and channel knob.

Note: To lock or unlock the radio, hold the [#LOCK] key for 2 seconds.

### [27: PF1-SHRT] Side Key PF1 Short Press Assignment

Function: Assigns a function to the [PF1] side key. A function is assigned to a short button press.

Options: OFF/BACK-LT/SQUELCH/WEATHER/RECALL/MODE/MONITOR/EM-121.5/FLASHLT

Default: SQUELCH

### [28: PF1-LONG] Side Key PF1 Long Press Assignment

Function: Assigns a function to the [PF1] side key. A function is assigned to a long button press.

Options: OFF/BACK-LT/SQUELCH/WEATHER/RECALL/MODE/MONITOR/EM-121.5/FLASHLT

Default: WEATHER

### [29: PF2-SHRT] Side Key PF2 Short Press Assignment

Function: Assigns a function to the [PF2] side key. A function is assigned to a short button press.

Options: OFF/BACK-LT/SQUELCH/WEATHER/RECALL/MODE/MONITOR/EM-121.5/FLASHLT

Default: RECALL

### [30: PF2-LONG] Side Key PF2 Long Press Assignment

Function: Assigns a function to the [PF2] side key. A function is assigned to a long button press.

Options: OFF/BACK-LT/SQUELCH/WEATHER/RECALL/MODE/MONITOR/EM-121.5/FLASHLT

Default: MODE

### [31: TOP-SHRT] Top Key Short Press Assignment

Function: Assigns a function to the [TOP] key. A function is assigned to a short button press.

Options: OFF/BACK-LT/SQUELCH/WEATHER/RECALL/MODE/MONITOR/EM-121.5/FLASHLT

## Menu Functions

Default: EM-121.5

### [32: TOP-LONG] Top Key Long Press Assignment

Function: Assigns a function to the [TOP] key. A function is assigned to a long button press.

Options: OFF/BACK-LT/SQUELCH/WEATHER/RECALL/MODE/MONITOR/EM-121.5/FLASHLT

Default: FLASHLT

### [33: VOLTAGE] Voltage

Function: Displays the current battery voltage.

Options: None

Default: None

### [34: RESET] Factory Reset

Function: Resets the transceiver to factory defaults.

Options: VFO/ALL

Default: VFO

VFO: Resets function settings to factory defaults but retains channel parameters.

ALL: Resets all of the function settings and channel parameters to factory defaults.



## Adding and Removing Channels

The KG-S74A allows you to add and delete channels directly from the keypad of the radio using the CH-ADD and CH-DEL options in the menu. New channels can be created from scratch in Frequency mode or cloned from existing channels in Channel mode.

### How to Clone an Existing Channel

When creating a new channel, it is often easier to start by cloning an existing channel. To clone an existing channel:

1. Be sure that your radio is in Channel mode by using the MODE menu option (page 39).
2. Tune to the channel that you would like to clone.
3. Press [MENU] + [4] to enter the CH-ADD function.
4. Turn the channel knob or press the [UP] and [DOWN] keys to select an available

## Advanced Operation

channel number, then press [MENU] to save it and return to standby mode. Channels that are unassigned or available to program will have the letter N next to the channel name.

Channel name and channel scan settings will not be cloned. To modify settings for the cloned channel, select the channel and then use the menu settings to select the options you wish to change.

### How to Add a Channel in Frequency Mode

New channels can also be created from scratch. To create a new channel:

1. Be sure that your radio is in Frequency mode by using the MODE menu option (page 39).
2. Tune to the desired channel by entering the receive frequency.
3. Update any settings that you would like applied to the channel by updating the menu options.

4. Once the frequency is working as desired, save the new channel by pressing [MENU] + [4] to enter the CH-ADD function.
5. Turn the channel knob or press the [UP] and [DOWN] keys to select an available channel number, then press [MENU] to save it and return to standby mode. Channels that are unassigned or available to program will have the letter N next to the channel name.

For example, to save a channel in Frequency mode with a 118.100 frequency:

1. While in Frequency mode, tune to the frequency 118.100 or type it into the radio from the keypad.
2. Press [MENU] + [4] to enter the CH-ADD function, turn the channel knob or press the [UP] and [DOWN] keys to select an available channel, then press [MENU] to save it and return to standby mode.

### How to Delete a Channel

1. Select the CH-DEL menu option by pressing [MENU] + [5] and then press

## Advanced Operation

[MENU] to confirm.

2. Turn the channel knob or press the [UP] and [DOWN] keys to select the desired channel number, then press [MENU] to delete it and return to standby mode. Channels that are unassigned or available to program will have the letter N next to the channel name.

Before assuming your KG-S74A is defective, please check the following list of possible problems and solutions. The RESET option provided in the menu can be used to restore factory standard settings and programming, and will often solve issues.

| Problem                                         | Solution                                                                                                                                                     |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Receive indicator is on but no sound is heard.  | <ul style="list-style-type: none"><li>■ Check volume level.</li><li>■ Check squelch settings.</li></ul>                                                      |
| Keypad is unresponsive                          | <ul style="list-style-type: none"><li>■ Check if keypad has been locked.</li><li>■ Check if other keys are currently pressed</li></ul>                       |
| Unwanted interference is being received         | <ul style="list-style-type: none"><li>■ Use a different channel</li></ul>                                                                                    |
| 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                                 | <ul style="list-style-type: none"><li>■ Check that the battery pack is attached correctly.</li><li>■ Check that the battery pack is fully charged.</li></ul> |

## Troubleshooting

| Problem                          | Solution                                                                                                                                                                                                                                               |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery life lower than expected | <ul style="list-style-type: none"><li>■ Be sure the charger indicates the battery is fully charged.</li><li>■ The battery pack capacity will naturally diminish over a number of charge cycles. This is the case with all lithium batteries.</li></ul> |

## Specifications

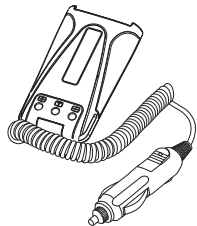
| <b>Entire Radio</b> |                                                  |
|---------------------|--------------------------------------------------|
| Frequency Range     | 118.000-136.99166 MHz                            |
| Memory Channels     | 400                                              |
| Frequency Stability | ±2.5 PPM                                         |
| Work Temperature    | -30°C~+60°C / -22°F~140°F                        |
| Antenna Impedance   | 50Ω                                              |
| Power Supply        | 7.4VDC                                           |
| Weight              | 8.32oz / 236g                                    |
| Size                | 4.53 × 2.14 × 1.36 (in) / 115 × 54.3 × 34.6 (mm) |
| Dust/Waterproof     | IP67                                             |

| <i>Receiver</i>              |                        | <i>Transmitter</i>     |                       |
|------------------------------|------------------------|------------------------|-----------------------|
| Adjacent Channel Selectivity | ≤60dB                  | RF Carrier Power       | 6W (PEP) / 2.4W (CW)  |
| Inter-modulation             | ≤65dB                  | Adjacent Channel Power | ≥60dB                 |
| Resistance                   | ≤84dB                  | Spurious               | ≤-30dBm               |
| Audio Response               | +1~3dB<br>(0.3~3KHz)   | Audio Modulation       | +3dB<br>(0.3~2.55KHz) |
| Audio Distortion             | ≤5%                    | Max Frequency Offset   | ±2.5KHz               |
| Output Power                 | 500mW                  | Frequency Stability    | ±2.5ppm               |
| Sensitivity                  | 0.16μV<br>(12dB SINAD) | Modulation Distortion  | ≤10%                  |

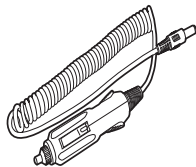
## NOAA Weather Channels

| Ch. | Frequency | Ch. | Frequency |
|-----|-----------|-----|-----------|
| 1   | 162.4000  | 5   | 162.5000  |
| 2   | 162.4250  | 6   | 162.5250  |
| 3   | 162.4500  | 7   | 162.5500  |
| 4   | 162.4750  |     |           |

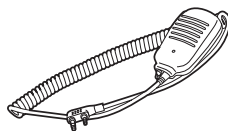
## Optional Accessories



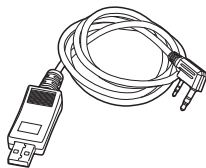
Eliminator



Car charger



Speaker/Mic



USB programming cable



Headset

**Shop Wouxun Accessories:**

[www.buytwowayradios.com/accessories/by-radio-brand/wouxun-radio-accessories.html](http://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.

THIS LIMITED WARRANTY IS THE ENTIRE WARRANTY FOR THIS PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF ANY DAMAGES, INCLUDING INCIDENTAL OR CONSEQUENTIAL 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.

Version: KG-S74A-2302-V1