

Thank you for purchasing the Wouxun KG-S72C portable business radio.

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feedback@buytowayradios.com

www.buylowcostradios.com

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Safety Information

The KG-S72C 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-S72C 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-S72C is FCC Part 95D type accepted for use on the CBRS. The KG-S72C operates on CB Radio Service (CBRS) 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 website at <https://www.fcc.gov/>.

Feature Summary

- Up to 400 Custom Channels
- 40 CB Channels
- AM and FM Modes
- Up to 2 Watts Output Power (AM)
- Up to 4 Watts Output Power (FM)
- 50 CTCSS Tones / 105 DCS Codes (FM Mode)
- LCD Display
- Display Channel Name, Number, or Frequency
- IP65 Waterproof
- USB-C Charging Port
- Standard and Non-Std CTCSS/DCS (FM Mode)
- Channel Scan
- Priority Channel Scanning
- Favorite Channels Function
- Superheterodyne Receiver
- Monitor Function
- High/Low Power Selectable
- VOX
- English Voice Guide
- Built-in Flashlight
- 2 Configurable Side Keys
- Configurable Top Key
- Rechargeable Lithium-ion Battery
- PC Programmable

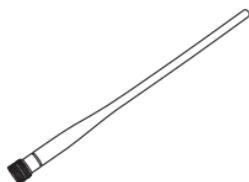
Getting Started

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

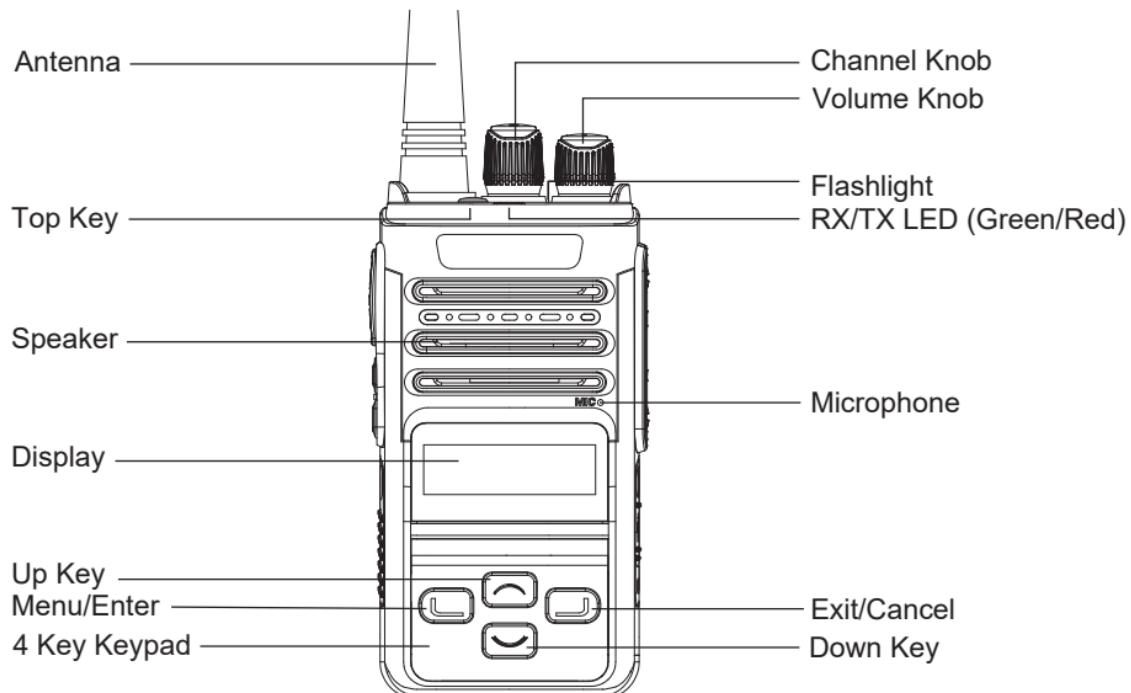


Hand strap



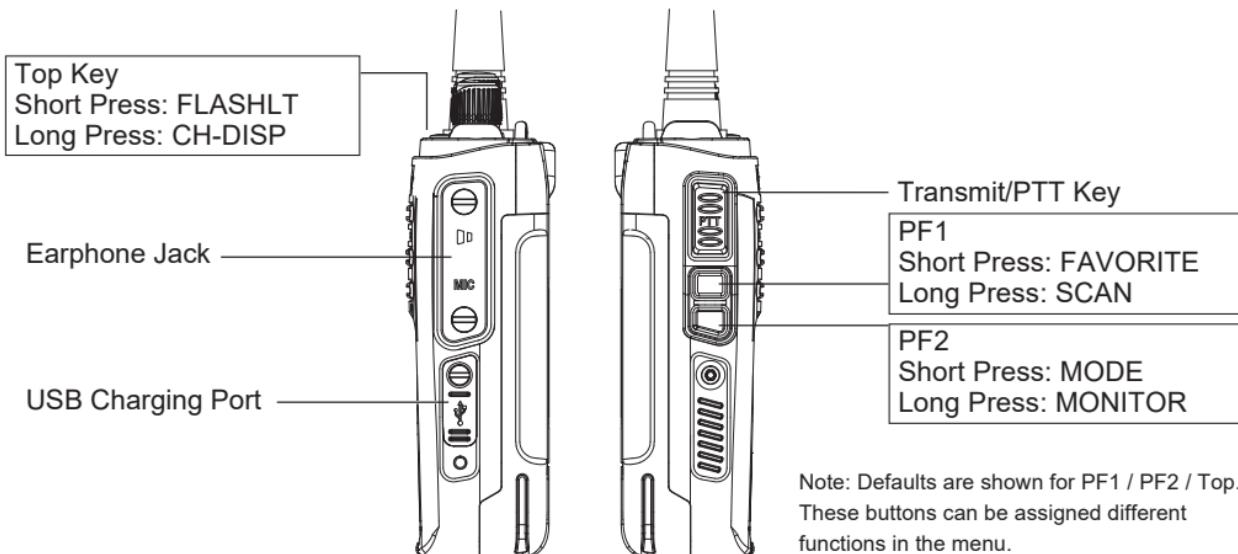
User's manual

Front Panel Guide

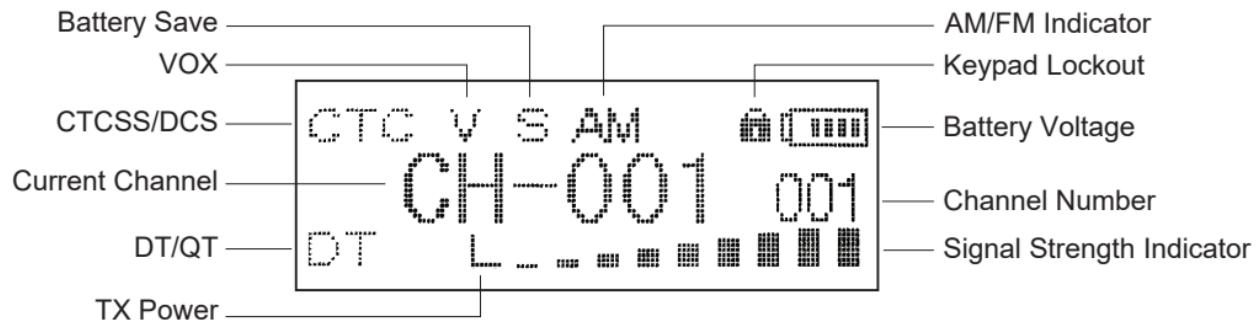


Getting Started

Right / Left Side Guide



Display Guide



Dust and Water Protection

The KG-S72C 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-S72C 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-S72C 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-S72C 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-S72C 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-S72C

The CB Radio Service (CBRS) is a two way radio service with considerable flexibility. CB radios can be used for personal or business applications. Users are allowed to transmit on both AM (amplitude modulation) or FM (frequency modulation). No license is required to operate a CB radio.

The KG-S72C was designed to take advantage of all that CB has to offer and more. It is easy to use with minimal setup by practically anyone, young or old. Right out of the box this radio is configured to transmit on the 40 CB channels in either AM or FM modes with no special programming required.

This radio can also be customized. Using the KG-S72C menu options, you can assign your favorite CB radio frequencies to up to 400 customized channels. Mode, tones and other channel settings can be customized for each channel.

Read this chapter to learn the basics of using your new KG-S72C 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-S72C for the first time, the screen will likely display “CB-01” in the center with “001” on the right side. CB-01 is the name of the currently selected channel. 001 is the channel number. Turn the Channel Knob or the [UP] / [DOWN] keys to navigate through the list of channels.

As a CB 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.

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 33) determines how strong a signal 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

Channels

The KG-S72C is pre-configured with 40 CB channels, but allows users to create addi-

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tional channels as well and save up to a maximum of 400 custom channels.

The KG-S72C can only transmit and receive on frequencies in the CB band.

Privacy Codes

The KG-S72C supports 50 CTCSS tones and 105 DCS codes in FM Mode, for a total of 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.

The KG-S72C supports both standard and non-standard CTCSS tones and DCS codes in FM Mode. These tones and codes can be enabled and configured in the [RX-CTCSS], [RX-DCS], [TX-CTCSS] and [TX-DCS] menu options (pp 35-37).

Instructions for entering non-standard tones and codes can be found in the Advanced Operations section of this manual (page 51).

Channel Scan

The KG-S72C 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.

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

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 37) 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 38).

The scan function can also be assigned to the programmable PF1, PF2 or TOP buttons from the menu (page 48-49).

Priority Channel Scan

The KG-S72C 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 39). To activate the Priority Channel Scanning feature, use the [PRI-SCAN] menu item (page 38).

Programmable Key Functions

The KG-S72C 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 (page 48-49). They can also be assigned via the programming software.

Default Key	Function	Description
	BACK-LT	Activate backlight (page 30)
PF1 Short	FAVORITE	Activate favorite channel (page 30)
PF1 Long	SCAN	Scan function (page 27)
	TXPOWER	Transmit power level (page 31)
PF2 Short	MODE	Switch AM or FM modes (page 33)
PF2 Long	MONITOR	Monitor channel (page 31)
	VOX	Activate VOX (p 40)
TOP Short	FLASHLT	Activate flashlight (page 30)
TOP Long	CH-DISP	Channel display mode (page 34)

Display Backlight

The KG-S72C 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 35). It can be assigned to the [PF1], [PF2] or [TOP] key using the menu (page 48-49).

Flashlight

The KG-S72C has a built-in LED flashlight at the top of the radio. 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 (page 48-49).

Favorite Channels

The KG-S72C allows you to access specific channels marked as favorite channels. When assigned to a programmable key, pressing that key will change channels to the next highest channel marked as Favorite. Pressing the key again will go to the next favorite channel on the list. When the highest channel is reached, the radio will cycle back to the first favorite channel on the list. If no channels are marked as favorites,

pressing the key will produce an error beep. Channels 9 and 19 are favorite channels by default.

The current channel can be activated or deactivated as a Favorite Channel by using the CH-FAV menu option (page 44).

The Favorite Channels function is assigned to a short press of the [PF1] by default, but can be disabled or otherwise assigned to the [PF1], [PF2] or [TOP] key using the menu (page 48-49).

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 menu (page 48-49).

Transmit Power

This function sets the transmit power of a channel on the radio. The transmit power

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can be set for each individual channel. The KG-S72C has two power options: Low (2W) and High (4W). Wattage is approximate. It is preset to 2 watts on all channels and cannot be changed in AM mode, but can be toggled in FM Mode. This function is assigned to the [PF1], [PF2] or [TOP] key using the menu (page 48-49).

[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] Modulation Mode

Function: Sets the modulation mode of the radio. The radio can transmit and receive on AM or FM. This setting is specific to each channel.

Options: FM/AM

Default: AM

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[03: TX-POWER] Output Power

Function: Sets the transmit power of the radio. The radio has two power options: Low (2W) and High (4W). Wattage is approximate. Note: the transmit power for CB channels in AM mode is limited to 2 watts and can be used on low power only.

Options: HIGH/LOW

Default: LOW

[04: CH-DISP] Channel Display Mode

Function: Changes how the channel is displayed. Applies to the current channel only.

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

Default: CH-NAME

CH-NAME: Channel Mode. Displays the channel name (Example: CB-01)

CH-FREQ: Channel Mode. Displays the channel frequency (Example: 26.96500)

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

Menu Functions

[05: BACK-LT] Active Backlight

Function: Sets the timeout of the LCD display backlight while the radio is in standby.
The timer can be set from 1-30 seconds in one second increments. It can also be set to turn off immediately or always remain on.

Options: OFF/1-30S/ALWAYS

Default: 10 Seconds

[06: 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

[07: RX-CTCSS] 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. Available in FM Mode only.

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Options: OFF/50 CTCSS Tones

Default: OFF

[08: RX-DCS] Receive DCS Code

Function: Sets the receiving DCS code for the selected channel. Short press the [PF2] key to choose DCS+ or DCS- codes. Use the arrow keys to select your preferred code and then MENU to confirm. Available in FM Mode only.

Options: OFF/105 DCS+ Codes/105 DCS- Codes

Default: OFF

[09: TX-CTCSS] 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. Available in FM Mode only.

Options: OFF/50 CTCSS Tones

Default: OFF

[10: TX-DCS] Transmit DCS Code

Function: Sets the transmitting DCS code for the selected channel. Short press the [PF2] key to choose DCS+ or DCS- codes. Use the arrow keys to select your preferred code and then MENU to confirm. Available in FM Mode only.

Options: OFF/105 DCS+ Codes/105 DCS- Codes

Default: OFF

[11: SCANMODE] Scan Mode

Function: Scan mode settings. Note: Scan can be stopped by pressing any key on the radio.

Options: TO/CO/SE

Default: TO

TO: When a signal is detected, scanning stops. Scan will pause for 5 seconds and then resume. Pressing PTT will transmit on the currently selected channel.

CO: When a signal is detected, scanning stops and resumes 5 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 chan-

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nel where the signal was detected.

[12: SCAN-ADD] Scan Add / Delete

Function: Add or remove a channel to/from the list of channels to scan.

Options: ADD/DEL

Default: ADD

[13: SCAN-QT] Tone Scanning Compatibility Check

Function: Determines if the incoming transmissions are filtered by CTCSS/DCS tones during scan mode. Available in FM Mode only.

Options: ON/OFF

Default: OFF

[14: PRI-SCAN] Priority Scan

Function: Activates scanning of the Priority Channel. During scan, the priority channel will be scanned more frequently. Read the Priority Channel Scan section (page 28) to learn more.

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Options: ON/OFF

Default: OFF

[15: PRI-CH] Priority Channel

Function: Selects the priority channel. This is used during scanning when the Priority Scan (menu option 14) 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

[16: TONESCAN] CTCSS/DCS Scanning

Function: Scans the incoming signal for CTCSS or DCS tones to identify or confirm the correct tone. This function must be activated while receiving a signal.

Available in FM Mode only.

Options: None. Choose the function and press [MENU] to activate the scan.

Default: Note: The scan will stop when the signal ends and resume from where it left off the next time the signal is received, until it identifies the correct tone. Use the [UP]/[DOWN] arrow keys to scan in a different direction. Short press

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the [PF2] side key to toggle between standard CTCSS, positive DCS, and negative DCS tone list.

[17: TONESAVE] CTCSS/DCS Tone Save Options

Function: This item determines how a CTCSS or DCS tone is saved to a channel after a CTCSS/DCS scan.

Options: BOTH/RX/TX

Default: TX

BOTH: Saves the scanned tone to both RX and TX settings.

RX: Saves the scanned tone to the RX-CTCSS/DCS setting

TX: Saves the scanned tone to the TX-CTCSS/DCS setting.

[18: 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/1-9 (level)

Default: OFF

[19: 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)

Default: 1S

[20: 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

[21: 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

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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

[22: ROGER] Roger Beep

Function: Enables an audible roger beep prompt during transmission. Available in FM mode only.

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

[23: BEEP] Button Beeps

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

Options: ON/OFF

Default: ON

[24: VOICE] Voice Guide

Function: Enable or disable voice prompts.

Options: OFF/ON

Default: ON

[25: 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

[26: 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 [PF1] key to move to the next

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position. Press the [PF2] key to move back to the previous position. When you finish editing the name, press [MENU] to save.

Options: 6 Characters

Default: None

[27: CH-FAV] Favorite Channel

Function: Select if the current channel should be marked as a favorite. Favorite channels can be activated quickly by using the FAVORITE function. This feature is assigned to the [PF1] key by default. Channels 9 and 19 are favorite channels by default.

Options: YES/NO

Default: NO

[28: CH-ADD] Add Memory Channel

Function: Adds a channel to the memory channel list.

Options: None

Default: None

[29: CH-DEL] Delete Memory Channel

Function: Deletes a channel from the memory channel list.

Options: None

Default: None

[30: STARTUP] Power On Message

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

Options: MESSAGE/VOLTAGE

Default: MESSAGE

MESSAGE: Customized Message

VOLTAGE: Battery voltage

[31: 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,

Menu Functions

then press the [PF1] key to move to the next position. Press the [PF2] key to move back to the previous position. When you finish editing the message, press [MENU] to save.

Options: 8 Characters

Default: None

[32: 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

[33: RPT-RCT] Squelch Tone

Function: Enables or disables the squelch tail sent to the receiving radio at the end of a transmission. Available in FM mode only.

Options: OFF/ON

Default: ON

[34: 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.

[35: 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.

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.

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[36: PF1-SHRT] Side Key PF1 Short Press Assignment

Function: Assigns a function to a short press of the [PF1] side key.

Options: OFF/BACK-LT/SCAN/TXPOWER/FLASHLT/MONITOR/VOX/CH-DISP/FAVORITE/MODE

Default: FAVORITE

[37: PF1-LONG] Side Key PF1 Long Press Assignment

Function: Assigns a function to a long press of the [PF1] side key.

Options: OFF/BACK-LT/SCAN/TXPOWER/FLASHLT/MONITOR/VOX/CH-DISP/FAVORITE/MODE

Default: SCAN

[38: PF2-SHRT] Side Key PF2 Short Press Assignment

Function: Assigns a function to a short press of the [PF2] side key.

Options: OFF/BACK-LT/SCAN/TXPOWER/FLASHLT/MONITOR/VOX/CH-DISP/FAVORITE/MODE

Default: MODE

[39: PF2-LONG] Side Key PF2 Long Press Assignment

Function: Assigns a function to a long press of the [PF2] side key.

Options: OFF/BACK-LT/SCAN/TXPOWER/FLASHLT/MONITOR/VOX/CH-DISP/FAVORITE/MODE

Default: MONITOR

[40: TOP-SHRT] Top Key Short Press Assignment

Function: Assigns a function to a short press of the [TOP] key.

Options: OFF/BACK-LT/SCAN/TXPOWER/FLASHLT/MONITOR/VOX/CH-DISP/FAVORITE/MODE

Default: FLASHLT

[41: TOP-LONG] Top Key Long Press Assignment

Function: Assigns a function to a long press of the [TOP] key.

Options: OFF/BACK-LT/SCAN/TXPOWER/FLASHLT/MONITOR/VOX/CH-DISP/FAVORITE/MODE

Default: CH-DISP

Menu Functions

[42: VOLTAGE] Voltage

Function: Displays the current battery voltage.

Options: None

Default: None

[43: 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.

Setting Non-Standard CTCSS or DCS

Standard and non-standard CTCSS tones and DCS codes are available in FM Mode only.

How to Set Non-Standard CTCSS

The KG-S72C supports non-standard CTCSS tones in the range of 65.0-255.0Hz with a minimum spacing of 0.1Hz. CTCSS tones are enabled and assigned to a channel using the user programming software.

For example, to set the receiving CTCSS tone to 100.5Hz:

In the programming software, select the desired channel row and choose the RX-CTCSS column. Highlight the current tone, press the backspace key to remove it, enter 100.5 using your computer keyboard and press return.

How to Set Non-Standard DCS

The KG-S72C supports non-standard DCS codes ranging from 000-766, except any

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code with the digit 8 or 9. For example, 680.719 is not a legitimate non-standard DCS code. DCS codes are enabled and assigned to a channel using the user programming software.

When entering a non-standard DCS code, add the letter I after the code number to set it as a positive code or the letter N to set it as a negative code.

Example 1: Set the receive DCS as D105N

In the programming software, select the desired channel row and choose the RX-DCS column. Highlight the current code, press the backspace key to remove it, enter D105N using your computer keyboard and press return.

Example 2: Set the receive DCS as D105I

In the programming software, select the desired channel row and choose the RX-DCS column. Highlight the current code, press the backspace key to remove it, enter D105I using your computer keyboard and press return.

Adding and Removing Channels

The KG-S72C 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 cloned from existing channels or created from scratch through programming software.

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. Tune to the channel that you would like to clone.
2. Press [MENU] and navigate to the CH-ADD function (page 44) and then press [MENU] to confirm.
3. 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.

How to Delete a Channel

1. Press [MENU] and navigate to the CH-DEL menu option (page 45) and then press [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-S72C 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">■ 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.

Troubleshooting

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.

Specifications

Entire Radio	
Frequency Range	26-27 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	IP65

Technical Information

<i>Receiver</i>		<i>Transmitter</i>	
Adjacent Channel Selectivity	≤60dB	RF Carrier Power	2W (AM) / 4W (FM)
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-S72C in FM Mode. 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

Technical Information

DCS codes ending in *N* are positive. Negative DCS codes end in *I*. The KG-S72C 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 CB Channels and Frequencies

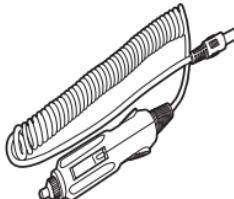
The following channels are pre-programmed to default CB frequencies.

Ch	Frequency	Ch	Frequency	Ch	Frequency	Ch	Frequency
CB-01	26.96500	CB-11	27.08500	CB-21	27.21500	CB-31	27.31500
CB-02	26.97500	CB-12	27.10500	CB-22	27.22500	CB-32	27.32500
CB-03	26.98500	CB-13	27.11500	CB-23	27.25500	CB-33	27.33500
CB-04	27.00500	CB-14	27.12500	CB-24	27.23500	CB-34	27.34500
CB-05	27.01500	CB-15	27.13500	CB-25	27.24500	CB-35	27.35500
CB-06	27.02500	CB-16	27.15500	CB-26	27.26500	CB-36	27.36500
CB-07	27.03500	CB-17	27.16500	CB-27	27.27500	CB-37	27.37500
CB-08	27.05500	CB-18	27.17500	CB-28	27.28500	CB-38	27.38500
CB-09	27.06500	CB-19	27.18500	CB-29	27.29500	CB-39	27.39500
CB-10	27.07500	CB-20	27.20500	CB-30	27.30500	CB-40	27.40500

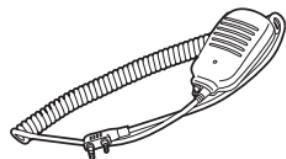
Optional Accessories



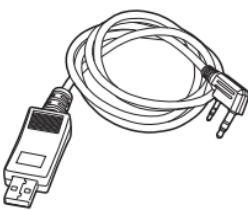
Eliminator



Car charger



Speaker/Mic



USB programming cable



Headset

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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-S72C-2508-V3