Thank you for purchasing the Wouxun KG-S65G portable GMRS radio.

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

feedback@buytwowayradios.com
www.buytwowayradios.com

Contents

Safety Information 10
FCC Licensing Information 13
Getting Started 14
Feature Summary 14
What's Included 16
Front Panel Guide 17
Right / Left Side Guide 18
Display Guide 19
Dust and Water Protection 20
Installing and Removing the Battery 21
Charging the Battery 22
Antenna Information 24
Installing the Belt Clip 24
Operation 25

Introducing GMRS and the KG-S65G.....25
Power On/Off and Adjusting Volume.....26
Your First Transmit.....26
Channel and Frequency Modes.....28
Channels and Tones.....30
Using Repeaters.....31
Channel Scan.....34
Priority Channel Scan.....35
Scanning CTCSS / DCS Codes.....37
NOAA Weather Mode.....38
Key Lock.....41
Keypad Function Keys.....42
Programmable Function Keys.....43
FM Radio.....49

Stopwatch Timer 50
Area Menu Functions 52
Using the Area Menu 52
[01: SQUELCH] Squelch 52
[02: TX-POWER] Output Power 53
[03: W/N] Bandwidth 53
[04: STEP] Frequency Step 53
[05: RX-CTCSS] Receive CTCSS Tone 54
[06: TX-CTCSS] Transmit CTCSS Tone 54
[07: RX-DCS] Receive DCS Code 54
[08: TX-DCS] Transmit DCS Code 55
[09: REPEATER] Repeater 55
[10: CH-NAME] Channel Name 56
[11: CH-FAV] Favorite Channel 57

[12: CH-ADD] Add Memory Channel....57
[13: CH-DEL] Delete Memory Channel....57
[14: BUSYLOCK] Busy Channel Lockout....58
[15: MUTEMODE] Speaker Mute....58
[16: DESCRAMB] Descrambler....59
[17: COMPAND] Compander....59
[18: CALL-GRP] Select Call Group....59
[19: SCAN-ADD] Scan Add / Delete....60
[20: TONESCAN] CTCSS/DCS Scanning....60
[21: WORKMODE] Work Mode....61
[22: CH-WIZ] Channel Wizard....61
System Menu Functions....63
Using the System Menu....63
[01: BACK-LT] Backlight Timeout....63

[02: BAT-SAVE] Battery Saver....63
[03: WX-ALERT] Weather Alert....64
[04: WXNOTIFY] Weather Alert Notification Setting....64
[06: THEME] Display Theme....65
[07: SCANMODE] Scan Mode....65
[08: SCAN-QT] Tone Scanning Detection....66
[09: PRI-SCAN] Priority Scan....66
[10: PRI-CH] Priority Channel....67
[11: TONE-SAVE] CTCSS/DCS Tone Save Options....67
[12: ROGER] Roger Beep....67
[13: TOT] Transmit Overtime Timer....68
[14: TOA] Transmit Overtime Alarm....68
[15: VOX] Voice Activated Transmit....69
[16: VOX-DLY] VOX Delay....69

[17: VOICE] Voice Guide....70
[18: BEEP] Button Beeps....70
[19: F1-SHORT] Front Key F1 Short Press Assignment....70
[20: F1-LONG] Front Key F1 Long Press Assignment....71
[21: F2-SHORT] Front Key F2 Short Press Assignment....71
[22: F2-LONG] Front Key F2 Long Press Assignment....72
[23: S1-SHORT] Side Key S1 Short Press Assignment....72
[24: S1-LONG] Side Key S1 Long Press Assignment....72
[25: S2-SHORT] Side Key S2 Short Press Assignment....73
[26: S2-LONG] Side Key S2 Long Press Assignment....73
[27: T1-SHORT] Top Key Short Press Assignment....74
[28: T1-LONG] Top Key Long Press Assignment....74
[29: STARTUP] Power On Message....75
[30: TOP-MSG] Custom Top Message....75

[31: AREA-MSG] Custom Area Message 76
[32: AUTOLOCK] Auto Lock 77
[46: LOCKMODE] Lock Mode.....77
[34: SIDETONE] Sidetone Setting 78
[35: RADIO-ID] Edit Radio ID 78
[36: PTT-ID] Radio ID Setting 79
[37: ID-DELAY] ID-Delay 79
[38: RING] Ring Time 80
[39: ALERT] Tone Alert.....80
[40: BAT-TYPE] Battery Level Display Type 81
[41: RPT-TONE] Squelch Tone.....81
[42: WEATHER] Weather Mode 81
[43: FM-RADIO] FM Radio 82
[44: RESET] Factory Reset.....82

Advanced Operation 84
Adding and Removing Channels.....84
Channel Wizard 88
Setting Non-Standard CTCSS or DCS.....96
DTMF Encoding 97
Remote Control.....101
Troubleshooting 106
Technical Information 108
Specifications 108
Standard CTCSS and DCS Tones 110
Default GMRS Channels and Frequencies 112
NOAA Weather Channels 114
Optional Accessories..... 115
Limited Warranty 116

Safety Information

The KG-S65G 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-S65G radio and its accessories. If the transceiver does not function normally, please get in touch with your dealer immediately.
- If you use components or accessories not produced by the Wouxun Company, Wouxun will not guarantee the safety and usability of the transceiver.

Safety Information

Caution

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

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND US FEDERAL LAW.

Radio Operation and EME Exposure

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

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

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

FCC Licensing Information

The Wouxun KG-S65G is FCC Part 95E type accepted for use on the GMRS. The KG-S65G operates on General Mobile Radio Service (GMRS) frequencies according to the Federal Communications Commission (FCC) Rules in the United States. As such, a GMRS license is required to transmit on these frequencies. To obtain an FCC license for the GMRS, please go to the FCC's web site and complete the online application or request FCC Form 605.

Feature Summary

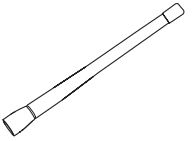
- 30 GMRS Channels
- 8 Built-In GMRS Repeater Channels
- 400 Memory Channels
- 7 NOAA Weather Channels
- 4 Weather Alert Notifications
- Up to 5 Watts Output Power
- IP55 Waterproof
- Frequency (VFO) Mode
- USB-C Charging Port
- Full Color Display
- 10 Colorful Theme Options
- 4 Customizable Display Themes
- 2 Selectable Power Levels
- Wide/Narrow Bandwidth Selectable
- Standard and Non-Std CTCSS/DCS
- CTCSS/DCS Tone Scan
- Channel Scan/Priority Scan
- Favorite Channels
- Channel Wizard
- Group Call/All Call/Select Call
- Display Channel Name, Number, or Frequency
- Custom Display Messages
- Incoming Caller ID Display
- DTMF Encode/Decode
- Receive (RX) Frequency Range:
  76-108 MHz (FM)
  400-480 MHz (FM)

- Transmit (TX) Frequency Range:
  462.550-462.725MHz (GMRS Channels 1-7 and 15-22)
  467.550-467.725MHz (GMRS Channels 8-14 & Repeater 23-30)
- English Voice Guide
- Reverse Frequency
- Talkaround
- Descrambler
- VOX
- Full Backlit Keypad
- Built-in Flashlight
- Remote Stun/Kill/Monitor/Inspect
- 2 Configurable Side Keys
- Configurable Top Key
- 2 Configurable Front Keys
- PC Programming Software Support

What's Included

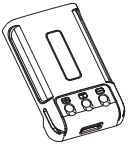
Carefully unpack the contents of the box and be sure that you have the items in the list below. If any items are missing or damaged, please contact your dealer.

Transceiver



Antenna

Belt Clip



Lithium-ion Battery Pack

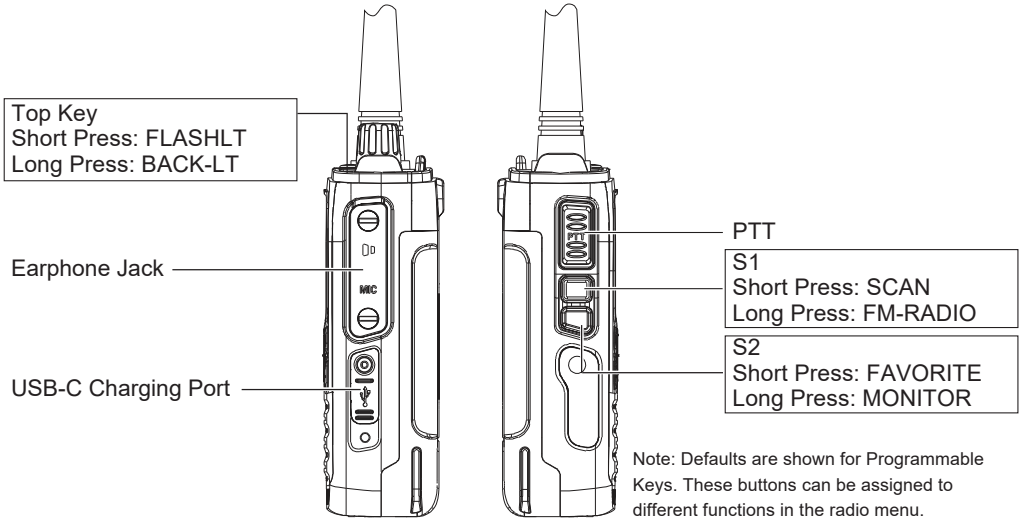
Wrist Strap

Intelligent Charger

User's Manual

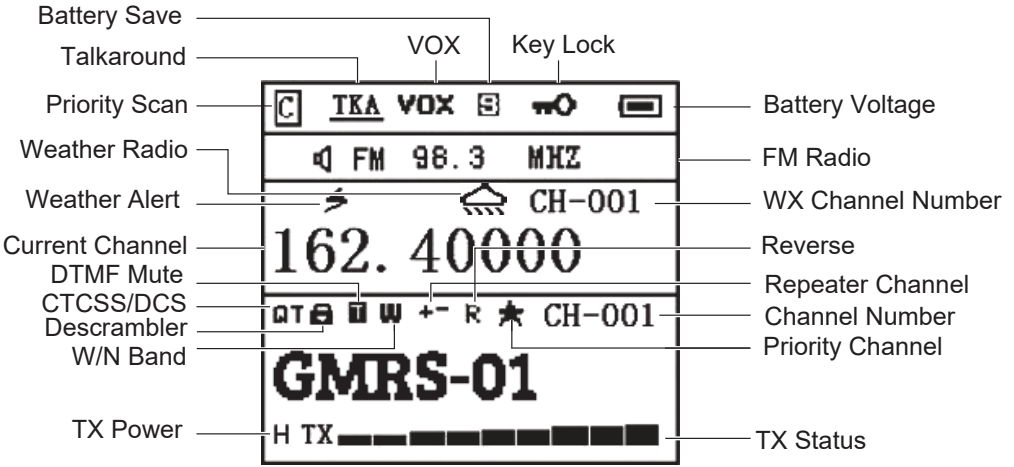
Front Panel Guide

Right / Left Side Guide



Note: Defaults are shown for Programmable Keys. These buttons can be assigned to different functions in the radio menu.

Display Guide



Dust and Water Protection

The KG-S65G is waterproof to IP55 standards. It is dust resistant and rated to withstand water projected by a nozzle (6.3 mm) against enclosure from any direction for a limited period. This radio is resistant to dust and water only while the battery is properly installed and locked in place with no gaps and the accessory port is completely sealed with the accessory port cover. Use of a headset or other accessory will negate the dust and waterproofing features of this radio. The KG-S65G is NOT submersible. Do not attempt to operate this radio if it has been submerged.

- The radio charger is NOT dust or waterproof.
- Charge the radio only under dry conditions.
- DO NOT charge the radio when it is wet.
- DO NOT expose the radio and charger to wet environments when charging.
- If the screws and/or port covers are removed, the radio is no longer IP55 compliant.
- Use only the supplied screws to seal the port covers.

Installing and Removing the Battery

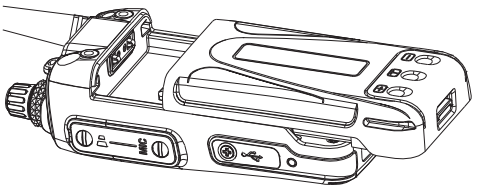
The lithium-ion battery pack included with the radio is not fully charged out of the box. It is recommended to charge it before using the radio for the first time.

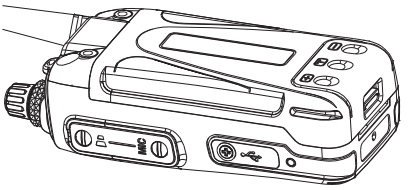
Installing the Battery

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 latch in place, press down on the top end of the battery pack, then slide it down and off the radio.





Charging the Battery

The KG-S65G 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-S65G 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.

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.

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.

Charging with the USB-C Port

The KG-S65G 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 to a USB port in a vehicle.

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-S65G includes an antenna with an SMA female connector that is tuned for the GMRS frequency range of your radio. Aftermarket antennas may be used, provided they are tuned for the GMRS.

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 GMRS and the KG-S65G

The General Mobile Radio Service (GMRS) is a two way radio service that offers some powerful benefits. Users are allowed to transmit at high power, up to 50 watts, and use advanced equipment, such as repeaters that enable you to transmit over large areas. The GMRS requires the user to purchase a license, and a single license covers the user and their extended family for 10 years.

The KG-S65G was designed to allow you to take advantage of all that GMRS has to offer and more. Right out of the box this radio is configured to allow you to transmit on the 15 high powered GMRS simplex channels and 8 low powered simplex channels, as well as the 8 repeater channels.

Read this chapter to learn the basics of using your new KG-S65G 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-S65G for the first time, the display will likely show "GMRS-01" in the center with "CH-001" in the upper right corner. GMRS-01 is the name of the currently selected channel. CH-001 is the channel number. Turn the Channel Knob or the [UP] / [DOWN] keys to navigate through the list of channels.

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

in your group is using.

Most rules for GMRS are the same for all channels, but there are a few differences, particularly concerning output power. The GMRS channels on the KG-S65G consist of 4 groups, with the following differences:

- Transmitting on GMRS channels 1-7 is limited to 5 watts of output power. These channels can transmit at up to High power (5 watts) on the KG-S65G.
- Transmitting on channels 8-14 is limited to a half watt of output power and is for use on Low power only.
- Transmitting on channels 15-22 and 23-30 is allowed at High power on the KG-S65G. These channels are authorized for up to 50 watts of output power.
- Channels 23-30 receive on the same frequencies as channels 15-22, but transmit on a special offset frequency set aside for repeaters. See page 31 for more information about using the KG-S65G with repeaters.

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 52) 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 located 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-S65G 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 default mode and is the most convenient way to access commonly used frequencies. The KG-S65G is pre-configured with 30 GMRS channels and allows users to save custom channels as well (up to 400). 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 53) allows you to adjust the step between each frequency. To enter a frequency directly, type the frequency using the keypad.

The KG-S65G can only transmit on GMRS frequencies. All other available frequencies entered in Frequency mode or through the programming software are receive only. The WORKMODE menu option (page 61) allows you to switch between Channel and Frequency (VFO) modes.

The KG-S65G supports the following frequency bands:

KG-S65G Frequency Bands
76 - 108 MHz (FM Radio) 400 - 480 MHz (FM)

Note: This list includes all of the bands on which the radio can recieve. Only GMRS frequencies are available to transmit.

Channels and Tones

The KG-S65G supports 30 built-in GMRS channels and 155 tones and codes. To successfully communicate between your stations or members of your group, all the connecting radios must be using the same frequency and CTCSS tone or DCS code.

The KG-S65G supports both standard and non-standard CTCSS tones and DCS codes. These tones and codes can be enabled and configured in the [RX-CTCSS], [TX-CTCSS], [RX-DCS] and [TX-DCS] menu options (pp 54-55). Instructions for entering non-standard tones and codes can be found in the Advanced Operations

section of this manual (page 96).

The KG-S65G supports 400 customizable memory channels. Instructions for adding and deleting channels are located in the Advanced Operations section (page 84).

Using Repeaters

The KG-S65G is pre-configured with 8 GMRS repeater channels. The channels are named RPT-15 through RPT-22.

What is a Repeater?

In basic terms, a repeater is a device that is used to increase the range of two way radios. Repeaters will receive a transmission on one frequency and simultaneously rebroadcast that transmission on a different frequency. Repeaters are often set up in a fixed location and connected to an antenna that is mounted at a higher elevation to provide better range than is normally available with radio-to-radio (simplex) communications.

Locating a Repeater

Using GMRS repeaters can significantly increase the range of your radio, but just tuning to one of the repeater channels isn't necessarily going to work. You first have to be sure there is a repeater listening on that frequency, and you have to be within range of that repeater.

The best resource for locating GMRS repeaters is the website www.myGMRS.com. This site has an extensive database of GMRS repeaters throughout the United States. It is important to keep in mind that a GMRS repeater is not necessarily intended for public use. They are owned by individuals and are sometimes intended for private use or require permission to use.

Before connecting to a GMRS repeater, be sure that you have permission or that the owner is fine with public use. The description on the myGMRS website usually indicates if permission is required and provides a way to get in touch with the owner.

KG-S65G Repeater Channels

RPT-15 through RPT-22 have the same receive frequency as channels GMRS-15

through GMRS-22. However, the transmit frequency for these channels is assigned to a frequency specifically designated as a GMRS repeater input frequency. The chart below lists the default frequencies for these channels.

Number	Channel	Receive Frequency	Transmit Frequency
CH-023	RPT-15	462.5500	467.5500
CH-024	RPT-16	462.5750	467.5750
CH-025	RPT-17	462.6000	467.6000
CH-026	RPT-18	462.6250	467.6250
CH-027	RPT-19	462.6500	467.6500
CH-028	RPT-20	462.6750	467.6750
CH-029	RPT-21	462.7000	467.7000
CH-030	RPT-22	462.7250	467.7250

Accessing a Repeater in Frequency Mode

The REPEATER menu option (page 55) allows you to transmit to a repeater while

in Frequency Mode. If you are tuned to a GMRS receive frequency that is valid for repeater use and turn the REPEATER menu option ON, the KG-S65G will transmit to the repeater input frequency when the PTT is pressed. The REPEATER menu option is ignored when the radio is not tuned to one of the 8 GMRS repeater transmit frequencies.

Channel Scan

The KG-S65G features a Channel Scan function. This function is assigned to a short press of the [S1] key by default. To activate Channel Scan, you must be in Channel Mode. Press and hold the [S1] key for two seconds or until you hear "Scan Begin". The radio will scan each channel for activity, starting from the current channel.

Pressing the [UP] / [DOWN] keys while scanning will change the direction of the scan from low to high ([UP]) or high to low ([DOWN]). Press any other key to stop the scan. Refer to the SCANMODE menu item (page 65) for more information on the types of scans available.

The scan function can also be assigned to any of the programmable [F1], [F2], [S1],

[S2] or [T1] buttons from the menu (pp. 70-74).

Individual channels can be added or removed from the scan list using the Scan Add [SCAN-ADD] Area Menu option (page 60).

Priority Channel Scan

The KG-S65G supports Priority Channel Scanning. When the Priority Channel Scan function is activated using the PRI-SCAN System Menu option (page 66), the KG-S65G will check the priority channel every 3 seconds for activity during normal operation. This helps prevent missing all or part of a transmission when you are primarily concerned with a single channel.

The PRI-SCAN menu item has options ON-STBY and ON-ALWYS. If activity is detected on the priority channel with ON-STBY selected, the priority channel activity will be heard only if the radio is not receiving a transmission on the current channel. If ON-ALWYS is selected, the priority channel activity will be heard even if a transmission is already being received on the current channel. The ON-ALWYS option will mo-

mentarily interrupt the audio every 3 seconds when receiving as it checks the priority channel. This is a normal function of the radio.

To set a priority channel, use the [PRI-CH] menu item (page 67). To activate the Priority Channel Scanning feature, use the [PRI-SCAN] menu item (page 66).

Note

When Priority Scan is active, the screen displays a " C " icon in a square box.

Frequency Scan

The KG-S65G can also perform a scan while in Frequency (VFO) Mode.

To activate Frequency Scan, press and hold the [S1] key for two seconds or until you hear "Scan Begin". The radio will scan each frequency for activity in sequential order, starting from the current frequency. In Frequency (VFO) mode, the radio will scan by the frequency step. This can be configured using the STEP menu option (page 53).

Pressing the [UP] / [DOWN] keys while scanning will change the direction of the scan from low to high ([UP]) or high to low ([DOWN]). Press any other key to stop the scan. Refer to the Scan Mode menu item (page 65) for more information on the types of scans available.

The scan function can also be assigned to any of the programmable [F1], [F2], [S1], [S2] or [TOP] buttons from the menu (pp. 70-74).

Scanning CTCSS / DCS Codes

The KG-S65G is equipped with the ability to scan an incoming signal for a CTCSS tone or DCS code and update the current channel's tone or code settings once the tone or code is identified.

To activate CTCSS /DCS scan, press the [MENU] key and navigate to the TONES-CAN menu item (page 60). Choose CTCSS or DCS and press [MENU] when a signal is received to activate the scan. Keep this menu item open to scan.

The scan will begin when a signal is received. 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] keys to scan in a different direction. See the TONESCAN menu item (page 60) for more information.

The TONESCAN feature saves the tone to the channel when you press MENU after a tone has been detected. When saving the tone, TONESCAN looks at the TONE-SAVE option in the System Menu (page 67) to determine if the detected tone is to be saved as the TX tone, RX tone, or both.

NOAA Weather Mode

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

Weather Mode is assigned to a short press of the [F2] key by default. To activate NOAA Weather Mode, press the [F2] button on the front of the radio. 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 [UP] / [DOWN] keys to navigate to your preferred NOAA station. Your most recently selected station will be remembered each time you enter this mode. NOAA weather mode can also be assigned to the [F1], [F2], [S1], [S2] or [TOP] key (pp 70-74).

A list of supported NOAA frequencies is included in the Technical Information chapter of this manual (page 114).

To exit Weather Mode, press the Programmable key assigned to the WEATHER function. The radio will return to the last channel or frequency accessed.

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

https://www.weather.gov/nwr/station_listing

Note

- Weather Mode is accessible on the top area only.
- The Band function only works while in Weather Mode.

Weather Alert

The KG-S65G features a Weather Alert option (page 64). When Weather Alert mode is active and the radio is in standby mode, the KG-S65G 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-S65G will produce an alert according the option chosen in the WXNOTIFY menu function (page 64). Pressing any key will acknowledge and end the alert.

The four alert options are listed in the following chart.

Alert Option	Alert Description
ICON	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.

Alert Option	Alert Description
ALL	Displays icon, emits alert and the flashlight LED pulses every 60 seconds.

Key Lock

The keys on the KG-S65G can be locked to prevent them from being accidentally pressed. When the Key Lock is enabled, all buttons except the PTT key will be disabled.

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

The KG-S65G also has an AutoLock feature. When activated, it will automatically lock the keypad after a specified period of time. The AUTOLOCK option is located in the System Menu (page 77).

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
F1	Programmable Front Key 1 (page 70)
F2	Programmable Front Key 2 (page 70)
MENU	Short Press: Enter Area menu, select options and save selection Long Press: Enter System menu
EXIT	Exit the menu or cancel a function Press 2 seconds to lock/unlock keypad (page 41)
UP	Goes to the next channel, frequency or menu item
DOWN	Goes to the previous channel, frequency or menu item

Programmable Function Keys

The KG-S65G has five programmable keys. The two keys labeled [F1] and [F2] are located on the front of the radio. The [S1] and [S2] keys are located on the left side of the radio below the PTT key. The radio also has a programmable top [T1] 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 [F1], [F2], [S1], [S2] and [T1] keys from the menu (pp. 70-74). They can also be assigned via the programming software.

Default Key	Function	Description
	DISABLE	Disable the Function Key press
	ALARM	Transmit alarm (page 47)
T1 Long	BACK-LT	Activate backlight (page 47)
S2 Short	FAVORITE	Favorite Channels (p 48)
T1 Short	FLASHLT	Activate flashlight (page 48)
S1 Long	FM-RADIO	Activate FM Radio (page 49)

Default Key	Function	Description
S2 Long	MONITOR	Monitor channel (page 47)
	REVERSE	Activate reverse frequency (page 45)
S1 Short	SCAN	Scan function (page 34)
F1 Short	WORKMODE	Switch Channel/Frequency Modes (page 28)
F1 Long	TX-POWER	Switch Low/High Power (page 53)
	SOS	Transmit SOS (page 46)
F2 Long	AREA-SEL	Switch primary and secondary areas (page 49)
	CALL	Sends a call ID (page 46)
	TIMER	Activate Stopwatch Timer (page 50)
	VOX	Activate VOX (p 69)
	TALK-A	Activate talkaround (page 45)
F2 Short	WEATHER	Activate Weather Mode (page 38)
	CH-WIZ	Activate Channel Wizard (page 88)

Reverse Frequency

When Reverse Frequency is activated, the transmit and receive frequencies of the active channel are exchanged or reversed, allowing the radio to transmit on the receive frequency and receive on the transmit frequency. This feature is useful for checking if you are within simplex range of other units before activating Talk Around.

To use Reverse Frequency, it must first be assigned to a programmable key. Press the assigned programmable key on the active channel to activate or deactivate this feature. When activated, an "R" icon will appear above the channel name, frequency or number. The Reverse Frequency function can be assigned to the [F1], [F2], [S1], [S2] or [T1] buttons from the System Menu (pp. 70-74). Available in Channel Modes only.

Talk Around

The Talk Around function allows the radio to transmit and receive on the output frequency of a repeater, essentially letting you bypass the repeater. This feature is useful when the repeater is nearly out of range, is not operational, or if you are in range of other stations and would prefer to contact them via simplex. To activate the Talk Around

function, it must first be assigned to the [F1], [F2], [S1], [S2] or [T1] buttons from the System Menu (pp. 70-74).

Call

The KG-S65G provides a way to send pre-configured Call Codes via a programmable function key. The programming software allows the defining of up to 20 Call Codes. Each channel can be assigned a Call Code using the CALLGRP menu item (page 59). Call tones are 3 to 6 digits. Pressing the assigned CALL key will transmit the Call ID tone defined for the channel. There is no need to hold the PTT while pressing the CALL key. To activate the Call function, it must first be assigned to the [F1], [F2], [S1], [S2] or [T1] buttons from the System Menu (pp. 70-74).

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 5 seconds, the radio will transmit the alarm to other radios on the same channel. To activate the SOS function, it must first be assigned to the [F1], [F2], [S1], [S2] or [T1] key (pp. 70-74).

Alarm

The radio features an alarm function with a Call ID code. When activated, the radio will emit an oscillating alarm and transmit a Call ID code plus the numbers "110" on the active channel for 5 seconds, after which the alarm will repeat. Press any key to deactivate the alarm. To activate the alarm function, it must first be assigned to the [F1], [F2], [S1], [S2] or [T1] key (pp. 70-74).

Monitor

The MONITOR function opens squelch on the current channel or frequency. This is useful when listening for weak transmissions. To use the MONITOR function, it must first be assigned to the [F1], [F2], [S1], [S2] or [T1] key (pp. 70-74).

Display Backlight

The KG-S65G 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 72). It can be assigned to the [F1], [F2], [S1], [S2] or [T1] key using the System Menu (pp. 70-74).

Flashlight

The KG-S65G has a built-in LED flashlight at the top of the radio. It is assigned to a short press of the [T1] key by default, but can be assigned to the [F1], [F2], [S1], [S2] or [T1] key using the System Menu (pp. 70-74).

Favorite Channels

The KG-S65G 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.

The current channel can be activated or deactivated as a Favorite Channel by using the CH-FAV menu option (page 64). This function does not work in Frequency Mode.

The Favorite Channels function can be assigned to the [F1], [F2], [S1], [S2] or [T1] key using the System Menu (pp. 70-74).

Area Select

The KG-S65G display is divided in two two areas of operation. The top half is the Weather Area and the bottom half is the GMRS Radio. When the Weather function is active, the weather radio is the primary active area by default. The primary area can be swtiched between the Weather and GMRS radio areas by pressing the programmable button assigned to the AREA-SEL function. The Weather radio remains active when the primary area is switched to the GMRS radio while Weather Mode is on.

The text "KG-S65G" will be displayed in the top area when the Weather Mode is off. The AREA-SEL function can be assigned to the [F1], [F2], [S1], [S2] or [T1] key using the System Menu (pp. 70-74).

FM Radio

The KG-S65G features a commercial broadcast FM Radio. To access the FM Radio, it must first be assigned to the [F1], [F2], [S1], [S2] or [T1] key (pp. 70-74). When active, the current FM radio frequency will appear near the top of the display above the Weather Area. To find an active broadcast station, press [S1] or the assigned SCAN key

to begin the FM Radio scanning function. Press any key to stop the scan.

To store an FM radio station in memory, locate the desired station, long press [MENU], go to FM-RADIO and press [MENU] to activate the radio storage function. Press the [UP] and [DOWN] keys to choose MEMORY. Use the channel knob or the [UP] and [DOWN] keys to select a memory channel, then press [MENU] to confirm.

To Recall a station, long press [MENU] to activate the radio storage function. Press the [UP] and [DOWN] keys to choose RECALL. Use the channel knob or the [UP] and [DOWN] keys to select a memory channel to recall, then press [MENU] to confirm.

Up to 20 FM radios stations can be stored on the radio using the [FM-RADIO] menu option (page 82).

Stopwatch Timer

The KG-S65G has a built-in stopwatch timer. To use the timer, it must first be assigned to a programmable key. Once enabled, Press the [MENU] key on the radio to activate the timer. Press any key to stop the timer. When stopped, press any key to deactivate

the timer and return to standby mode.

When the timer is activated, it will appear on the display in place of the current channel information. The menu is not accessible while the timer is active.

The timer function can be assigned to the [F1], [F2], [S1], [S2] or [T1] key using the System Menu (pp. 70-74).

Using the Area Menu

The Wouxun KG-S65G has two menus to access its primary features and functions. The Area Menu includes menu options and settings that are only applied directly to or otherwise affect the funtionality of each individual channel when in Channel Mode or the selected frequency when in Frequency (VFO) Mode. It is accessed with a short press of the [MENU] key. This menu includes such settings as CTCSS/DCS tones, squelch, and bandwidth.

[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.

Options: 0-9

Default: 5

[02: TX-POWER] Output Power

Function: Sets the transmit power of the radio. The radio has two power optons: Low and High. Wattage is different for each channel and is approximate. Refer to the Technical Specifications chapter (page 112) for details.
Options: HIGH/LOW
Default: (Varies by channel)

[03: W/N] Bandwidth

Function: Sets the bandwidth for the current channel when in Channel Mode or the current frequency when in VFO Mode.
Options: WIDE/NARROW
Default: (Varies by channel or frequency)

[04: STEP] Frequency Step

Function: Allows you to adjust the steps between frequencies. Available only in Frequency mode.
Options: 2.5K/5K/6.25K/10K/12.5K/20K/25K/50K/100K/1000K

Default: 5K

[05: RX-CTCSS] Receive CTCSS Tone

Function: Sets the receiving CTCSS tone for the selected channel. Use the [UP] / [DOWN] keys to select your preferred code or choose OFF and then MENU to confirm.
Options: OFF/50 CTCSS Tones
Default: OFF

[06: TX-CTCSS] Transmit CTCSS Tone

Function: Sets the transmitting CTCSS tone for the selected channel. Use the [UP] / [DOWN] keys to select your preferred code or choose OFF and then MENU to confirm.
Options: OFF/50 CTCSS Tones
Default: OFF

[07: RX-DCS] Receive DCS Code

Function: Sets the receiving DCS code for the selected channel. Scroll through the list

to choose DCS+ (N) or DCS- (I) codes. Use the [UP] / [DOWN] keys to select your preferred code or choose OFF and then MENU to confirm.

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

[08: TX-DCS] Transmit DCS Code

Function: Sets the transmitting DCS code for the selected channel. Scroll through the list to choose DCS+ (N) or DCS- (I) codes. Use the [UP] / [DOWN] keys to select your preferred code or choose OFF and then MENU to confirm.

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

[09: REPEATER] Repeater

Function: Sets the offset frequency for a repeater channel. When this option is activated the KG-S65G will transmit to the repeater input frequency when the radio is tuned to a frequency that has a valid GMRS repeater offset. This option is only available in frequency mode and will be ignored on frequencies that do not have a GMRS repeater offset. The offset is fixed to 5.000 MHz.

Options: OFF/ON
Default: OFF

[10: 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 [S1] key to move to the next position. Press the [S2] key to move back to the previous position. When you finish editing the name, press [MENU] to save. Pressing the [F1] key will toggle between upper case, lower case, numeral, punctuation/symbols or space characters in the list, beginning with A, a, 0, ?, [space]. Pressing the [F2] key will clear the entire name field. This option is only available in Channel Mode.

Options: 8 Characters
Default: None

[11: 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 can be assigned to the [F1]. [F2], [P1]. [P2] or T1] key. The FAVORITE function does not work in Frequency Mode.
Options: ON/OFF
Default: OFF

[12: CH-ADD] Add Memory Channel

Function: Adds a channel to the memory channel list. Refer to the section Adding and Removing Channels (page 84) for details.
Options: None
Default: Current channel

[13: CH-DEL] Delete Memory Channel

Function: Deletes a channel from the memory channel list. Refer to the sub-section How to Delete a Channel (page 87) for details.

Options: None
Default: Current channel

[14: 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

[15: MUTEMODE] Speaker Mute

Function: Selects the method to filter transmissions received on the current channel.
Options: QT/QT*DTMF/QT+DTMF
Default: QT
QT: Only those signals with a CTCSS tone or DCS code matching the selected channel will be heard through the speaker.
QT+DTMF: Transmissions will be filtered by both CTCSS/DCS tones AND a DTMF tone of the current radio ID (followed by a # sign).
QT*DTMF: Transmissions will be filtered by either CTCSS/DCS tones OR a DTMF

tone of the current radio ID (followed by a # sign).

[16: DESCRAMB] Descrambler

Function: Activating this function will descramble incoming signals that are scrambled using one of 8 supported protocols.
Options: OFF/SCRAM 1-8
Default: OFF

[17: COMPAND] Compander

Function: The compander minimizes noise. Useful when transmitting over long distances.
Options: ON/OFF
Default: OFF

[18: CALL-GRP] Select Call Group

Function: Function: Sets Selective Group Call tones. Selective Call tones are 3 to 6 digits. Call tones can be set up through the programming software.
Options: 1-20 Groups

Default: 1

[19: SCAN-ADD] Scan Add / Delete

Function: Add or remove a channel to/from the list of channels to scan. ON indicates the channel is in the scan list.
Options: ON/OFF
Default: ON

[20: 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.
Options: Choose CTCSS or DCS and press [MENU] to activate the scan.
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] keys to scan in a different direction. See page 37 for more information.

[21: WORKMODE] Work Mode

Function: Changes the working mode of the radio. This function can be assigned to the [F1], [F2], [S1], [S2] or [T1] programmable keys on the radio.
Options: CH-NAME/CH-NUM/CH-FREQ/FREQ (VFO)
Default: CH-NAME
CH-NAME: Channel Mode. Displays the channel name (Example: GMRS-01)
CH-FREQ: Channel Mode. Displays the channel frequency (Example: 462.56250)
CH-NUM: Channel Mode. Displays the channel number (Example: CH-001)
FREQ (VFO): Frequency Mode. Allows directly tuning to any frequency within the receive range of the KG-S65G. The radio transmits on GMRS frequencies only.

[22: CH-WIZ] Channel Wizard

Function: The Channel Wizard is a quick and convenient way to add a new channel to the radio. This menu option activates the Add Channel Wizad feature. Refer to the Channel Wizard section for details (page 88).

Options: NONE
Default: NONE

Using the System Menu

The System Menu contains the menu settings that manage or affect the operation of the radio. These including options for configuring power management, display preferences, and other system-level functions. It is accessed with a long, 2 second press of the [MENU] key.

[01: BACK-LT] Backlight Timeout

Function: Sets the amount of time that the display will remain active before entering standby. The timer can be set from 1-30 seconds in one second increments. It can also be set to turn off imediately or always remain on.
Options: OFF/1-20S/ALWAYS ON
Default: 10 Seconds

[02: 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

[03: WX-ALERT] Weather Alert

Function: Enables and disables the weather alert. Sets the alert for the currently active NOAA weather channel.
Options: ON/OFF
Default: OFF

[04: WXNOTIFY] Weather Alert Notification Setting

Function: Sets type of notification for the alert when a NOAA weather alert signal is received.
Options: ICON/TONE/FLASH/ALL
Default: ICON
ICON: Displays weather alert icon.
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.
ALL: Displays icon, emits alert and flashlight LED pulses.

[06: THEME] Display Theme

Function: Sets the theme of the LCD display to one of 14 display themes. Colors for the four custom themes can be defined in the programming software.
Options: WHITE-1/WHITE-2/BLACK-1/BLACK-2/COOL/RAIN/NotARubi/SKY/BTWR/CANDY/CUSTOM-1/CUSTOM-2/CUSTOM-3/CUSTOM-4
Default: BLACK-1

[07: 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.

[08: SCAN-QT] Tone Scanning Detection

Function: Determines if the incoming transmissions are filtered by CTCSS/DCS tones during scan mode.
Options: ON/OFF
Default: OFF

[09: PRI-SCAN] Priority Scan

Function: Allows you to turn the priority channel scan on or off. When enabled, the radio will scan the priority channel every 3 seconds for activity. Read the "Priority Channel Scan" section on page 39 to learn more.
Options: OFF /ON-STBY/ON-ALWYS
Default: OFF
OFF: Disabled
ON-STANDBY: Disables Priority Scan during receive
ON-ALWAYS: Enabled

[10: PRI-CH] Priority Channel

Function: Selects the priority channel. This is used during scanning when the Priority Scan (menu option 9) 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

[11: TONE-SAVE] 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.
RX: Saves the scanned tone to the RX-CTCSS/DCS setting
TX: Saves the scanned tone to the TX-CTCSS/DCS setting
RX+TX: Saves the scanned tone to both

[12: ROGER] Roger Beep

Function: Enables an audible roger beep prompt during transmission.
Options: OFF/BOT/EOT/BOTH
Default: OFF
BOT: Sets the roger beep prompt at the beginning of transmission
EOT: Sets the roger beep at the end of transmission
BOTH: Sets the roger beep at the beginning and end of transmission

[13: 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: OFF/15-900 seconds (15 second increments)
Default: 60 seconds

[14: 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

[15: 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

[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/1-5MS (milliseconds)
Default: 1MS

[17: VOICE] Voice Guide

Function: Enable or disable voice prompts.
Options: OFF/ON
Default: ON

[18: BEEP] Button Beeps

Function: Enables an audio prompt to alert the operator of a key press, input or fault.
Selectable: ON/OFF
Default: ON

[19: F1-SHORT] Front Key F1 Short Press Assignment

Function: Assigns a function to a short press of the [F1] front key. Refer to Programmable Key Options on page 43 for more information about each option.
Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: WORKMODE

[20: F1-LONG] Front Key F1 Long Press Assignment

Function: Assigns a function to a long press of the [F1] front key. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: TX-POWER

[21: F2-SHORT] Front Key F2 Short Press Assignment

Function: Assigns a function to a short press of the [F2] front key. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: WEATHER

[22: F2-LONG] Front Key F2 Long Press Assignment

Function: Assigns a function to a long press of the [F2] front key. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: AREA-SEL

[23: S1-SHORT] Side Key S1 Short Press Assignment

Function: Assigns a function to a short press of the [S1] side key. This is the upper programmable key located on the left side of the radio. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: SCAN

[24: S1-LONG] Side Key S1 Long Press Assignment

Function: Assigns a function to a long press of the [S1] side key. This is the upper programmable key located on the left side of the radio. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: FM-RADIO

[25: S2-SHORT] Side Key S2 Short Press Assignment

Function: Assigns a function to a short press of the [S2] side key. This is the lower programmable key located on the left side of the radio. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: FAVORITE

[26: S2-LONG] Side Key S2 Long Press Assignment

Function: Assigns a function to a long press of the [S2] side key. This is the lower programmable key located on the left side of the radio. Refer to Programmable Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: MONITOR

[27: T1-SHORT] Top Key Short Press Assignment

Function: Assigns a function to a short press of the [T1] key. This is the programmable key located on the top of the radio. Refer to PF Key Options on page 43 for more information about each option.

Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASHLT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE

Default: FLASHLT

[28: T1-LONG] Top Key Long Press Assignment

Function: Assigns a function to a long press of the [T1] key. This is the programmable key located on the top of the radio. Refer to Programmable Key Options on page 43 for more information about each option.
Options: DISABLE/ALARM/AREA-SEL/BACKLT/CALL/FAVORITE/FLASH-LT/FM-RADIO/MONITOR/REVERSE/SCAN/SOS/TALK-A/TIMER/TX-POWER/VOX/WEATHER/WORKMODE
Default: BACK-LT

[29: STARTUP] Power On Message

Function: Select the item displayed when the radio is powered on.
Options: LOGO/VOLTAGE
Default: LOGO
LOGO: Wouxun logo
VOLTAGE: Battery voltage

[30: TOP-MSG] Custom Top Message

Function: Allows you to customize the message in the top banner of the display. To edit the message, long press [MENU] and choose the TOP-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 [S1] key to move to the next position. Press the [S2] key to move back to the previous position. Pressing the [F2] key will clear the entire message field. When you finish editing the message, press [MENU] to save.

Options: 8 Characters
Default: None

[31: AREA-MSG] Custom Area Message

Function: Allows you to customize the message in the Secondary area of the display when the single area display option is chosen. To edit the message, long press [MENU] and choose the AREA-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 [S1] key to move to the next position. Press the [S2] key to move back to the previous position. Pressing the [F2] key will clear the entire message field. When you finish editing the message, press [MENU] to save.

Options: 8 Characters
Default: None

[32: 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.

[46: 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 [S1] and [S2] side keys.
KEY+PTT: Locks the front keypad, [S1] and [S2] and [T1] keys, and [PTT].
KEY+ENC: Locks the front keypad, [S1] and [S2] side keys, and channel knob.
ALL: Locks the front keypad, [S1] and [S2], [T1] keys, [PTT], and channel knob.

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

[34: SIDETONE] Sidetone Setting

Function: Determines when DTMF tones transmitted by the radio are heard from the speaker. It can be configured if you want to hear all tones, only tones transmitted for a radio ID, or only tones other than those transmitted for a radio ID. Regardless of the setting, tones are still transmitted over the air and will be heard by other radios.

Options: OFF/DTMF/ID/DTMF+ID

Default: OFF

DTMF: Only non-radio ID tones will be heard through the speaker.

ID: Only radio ID tones will be heard through the speaker. Tones entered manually from the keypad will not be heard.

DTMF+ID: All tones transmitted will be heard from the speaker.

[35: RADIO-ID] Edit Radio ID

Function: Sets the numeric radio ID that is sent during transmissions if the PTT-ID menu option is enabled. This ID must be a number and contain at least 3

digits and no more than 6 digits. The first digit cannot be 0. The default is 101.

Options: 0-9

Default: 101

[36: PTT-ID] Radio ID Setting

Function: Determines if the radio will send its Radio ID during transmit, and at what point it will be sent.

Options: OFF/BOT/EOT/BOTH

Default: OFF

BOT: Radio ID will be sent at the beginning of the transmission.

EOT: Radio ID will be sent at the end of the transmission.

BOTH: Radio ID will be sent at both the beginning and end of transmission.

[37: ID-DELAY] ID-Delay

Function: Determines the amount of time in milliseconds to wait before sending the PTT-ID. This only applies to the ID that is sent at the beginning of the transmission. It is ignored when PTT-ID is set to EOT (end of transmis-

sion).

Options: 100~3000ms

Default: 300ms

[38: RING] Ring Time

Function: Sets the amount of time a ring alert is emitted after receiving a DTMF tone that matches the radio ID. This is used when the MUTEMODE setting is QT+DTMF or QT*DTMF.

Selectable: OFF/1S-10S (seconds)

Default: 5S

[39: ALERT] Tone Alert

Function: Allows selection of the specific hertz of the tone burst. Some relay systems used for single-tone pulse transmissions need a single-tone pulse signal to activate.

Options: 1750Hz/2100Hz/1000Hz/1450Hz

Default: 1750Hz

Special Reminder: When in transmit mode, you can send the single-tone pulse fre-

quency you've selected by pressing the [S2] key on the side of the radio.

[40: BAT-TYPE] Battery Level Display Type

Function: Select the type of indicator that is shown in the battery level area of the display. Icon displays a battery icon, filled to a level that is roughly indicative of the remaining battery charge. Voltage displays the current battery voltage. Percent displays the percentage of battery life that remains.
Options: ICON/VOLTAGE/PERCENT
Default: ICON

[41: RPT-TONE] Squelch Tone

Function: Enables or disables the squelch tail sent to the receiving radio at the end of a transmission.
Options: OFF/ON
Default: ON

[42: WEATHER] Weather Mode

Function: Activates Weather Mode. If ON, the weather area is active and the frequen-

cy for the currently selected weather channel appears on the top half of the display. The weather channel can be changed using the channel knob or the [UP] / [DOWN] keys. When weather mode is enabled, the active area can be toggled from the Weather Area to the GMRS band and back using the AREA-SEL feature.

Options: ON/OFF
Default: OFF

[43: FM-RADIO] FM Radio

Function: Save and recall up to 20 FM radio stations to and from memory. Refer to page 49 for more about the FM radio. Accessible only in FM Radio Mode.
Options: RECALL/MEMORY
Default: RECALL

[44: 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-S65G 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 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. This is particularly true with repeater channels. To clone an existing channel:

1. Be sure that your radio is in Channel mode by using the WORKMODE menu option (page 61).

2. Tune to the channel that you would like to clone.

3. Press [MENU] and enter the CH-ADD function.

4. 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 be a different color from channels that are already assigned.

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.

Tip

For faster navigation, use the [S1] or [S2] keys instead of the [UP] and [DOWN] keys to skip through the list of channels that are already in use or assigned. Press [S1] key to instantly go to the next unassigned channel on the list. Press the [S2] key go to the last unnasigned channel on the list.

How to Add a Channel in Frequency Mode

New channels can also be created from scratch, including "Receive-Only" channels for frequencies supported by the KG-S65G but outside of the frequencies allowed for GMRS use. To create a new channel:

1. Be sure that your radio is in Frequency mode by using the WORKMODE menu option (page 61).

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 area menu options.

4. Once the frequency is working as desired, save the new channel by pressing [MENU] and 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 available to program will be a different color from channels already assigned.

For example, to save a channel in Frequency mode with a 146.520 receive frequency and a 67.0 receive CTCSS tone:

1. While in Frequency mode, tune to the frequency 146.520 using the channel knob or the [UP] and [DOWN] keys, press [MENU], enter the Receive CTCSS menu option,

press [UP] / [DOWN] to select the 67.0 tone, and then press [MENU] to confirm.

2. Press [MENU], 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.

Note

If a channel is unnamed and WORKMODE is set to CH-NAME mode, the frequency will be displayed instead.

How to Delete a Channel

1. Select the CH-DEL menu option by pressing [MENU], choose the CH-DEL menu option 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 available to program will be a different color from channels already assigned.

Channel Wizard

The KG-S65G features the Channel Wizard, a new function that allows you to quickly and easily program a new channel or modify an existing channel direct from the keypad of the radio itself. With the Channel Wizard, you can add or clone new channels into the radio in mere seconds. You can also change the settings in any existing channel. The wizard lets you do all of this without scrolling through the menu to find and set each dividual channel option, and without the need for programming software.

Using the Channel Wizard

When you enter the Channel Wizard, the data for the currently selected channel or frequency will be loaded. Whether the current channel is updated or a new channel is created will depend on the channel number selected in the wizard.

There are two ways to access the Channel Wizard. first method is to assign the CH-WIZ option to a programmable key. It is assigned to a long press of the [F1] key by default. This will take you directly into it. The second method is to press [MENU] and choose the CH-WIZ menu option (page 61). There are ten menu functions in the

Channel Wizard, each with their own sub-menu. Go to the first menu item and press [MENU] to enter its sub-menu. Use the [UP] and [DOWN] keys to choose the option you want from that sub-menu, then press [MENU] to enter your choice. This will take you back to the Channel Wizard menu to go to the next or previous Channel Wizard menu function.

The last Channel Wizard menu function is [SAVE-MODE]. You must choose this function to save your channel settings and add, clone or save your channel to the radio. You can choose to save your channel and create another channel or save the channel and exit the Channel Wizard. See SAVE-MODE (page 95) for more information.

Channel Wizard Menu

The ten menu functions and their sub-menu options are listed as follows.

[01: TYPE] Channel Type

Function: Sets the type of channel you want to add, clone or modify. Press [MENU] to enter the Channel Type sub-menu, use the [UP] and [DOWN] keys to choose your option, and [MENU] to enter your choice. There are three chan-

nel types from which to choose.
Options: REPEATER/RX-ONLY/SIMPLEX
Default: REPEATER
REPEATER: Sets up a repeater channel.
RX-ONLY: Sets up a receive-only channel.
SIMPLEX: Sets up a GMRS simplex channel.

[02: RX-FREQ] Receive Frequency

Function: Sets the receive frequency for the channel you want to add, clone or modify. Press [MENU] to enter the Receive Frequency sub-menu. The process for selecting a frequency varies based on your choice for the TYPE option in step 1.
Options: Refer to the following parameters for each TYPE option.
SIMPLEX: Use the [UP] and [DOWN] keys to scroll through the list of available GMRS simplex frequencies or enter the channel number 1-22 that corresponds with your desired frequency. Press [MENU] to set the frequency you want to choose.
REPEATER: Use the [UP] and [DOWN] keys to scroll through the list of available

GMRS repeater frequencies or enter the number 1-8 that corresponds with your desired frequency. Press [MENU] to set the frequency you want to choose.

RX-ONLY: Enter your desired frequency directly, using the keypad. Alternatively, you can use the [UP] and [DOWN] keys to scroll through all available frequencies. Press [MENU] to save your selected frequency.

Default: Frequency of the current channel

[03: TX-CTCSS] Transmit CTCSS Tone

Function: Sets the transmitting CTCSS tone for the new or selected channel. Press [MENU] to enter the TX-CTCSS sub-menu, use the [UP] and [DOWN] keys to select your preferred tone and then press [MENU] to choose it. Pressing the [F2] key will clear the tone.

Options: OFF/50 CTCSS Tones

Default: OFF

[04: TX-DCS] Transmit DCS Code

Function: Sets the transmitting DCS code for the new or selected channel. Press

[MENU] to enter the TX-DCS sub-menu, use the [UP] and [DOWN] keys to select your preferred code and then press [MENU] to choose it. Pressing the [F2] key will clear the code.

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

[05: RX-CTCSS] Receive CTCSS Tone

Function: Sets the receiving CTCSS tone for the new or selected channel. Press [MENU] to enter the RX-CTCSS sub-menu, use the [UP] and [DOWN] keys to select your preferred tone and then press [MENU] to choose it. Pressing the [F2] key will clear the tone.

Options: OFF/50 CTCSS Tones
Default: OFF

[06: RX-DCS] Receive DCS Code

Function: Sets the receiving DCS code for the new or selected channel. Press [MENU] to enter the RX-DCS sub-menu, use the [UP] and [DOWN] keys to select your preferred code and then press [MENU] to choose it. Pressing the [F2]

key will clear the code.
Options: OFF/105 DCS+ Codes/105 DCS- Codes
Default: OFF

[07: TX-POWER] Transmit Power Setting

Function: Sets the power level of channel you want to add, clone or modify. Press [MENU] to enter the TX-POWER sub-menu, use the [UP] and [DOWN] keys to choose your option, and [MENU] to enter your choice. The radio has two power optons: Low and High. Low power is one half watt. Note, the transmit power for GMRS frequencies 467.5625-467.7125 (channels 8-14) are restricted by the FCC to 0.5 watts and can be used on low power only. The transmit power for GMRS frequencies 462.5625-462.7125 (channels 1-7) are limited to 5 watts and can be used on Low or High power. The KG-S65G will automatically adjust the power to the FCC limits.
Options: LOW/HIGH
Default: LOW

[08: CH-NAME] Set Channel Name

Function: Allows you to enter or edit the name for the channel you want to add, clone or modify. Press [MENU] to enter the CH-NAME sub-menu. 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] or [DOWN] key to select the desired character, then press the [S1] key to move to the next position or the [S2] key to move to the previous position. Pressing the [F2] key will clear the channel name field. When you finish editing the name, press [MENU] to save it.

Options: 8 Characters

Default: None

[09: CH-NUM] Set Channel Number

Function: Sets the number of the channel you want to add, clone or modify. There are 400 memory channels from which to choose. Use the [UP] and [DOWN] keys to scroll through the list of channels or press [S1] or [S2] keys to skip the channels that are already in use or assigned. A channel number in purple indicates that channel number is already assigned to a channel. If the channel number is grey, it indicates the channel is available.

Options: 1-400
Default: Current active channel

[10: SAVE-MODE] Save Channel Settings Mode

Function: This function is the last step in the Add Channel Wizard. It saves the channel settings that have been entered during the previous nine steps in the Wizard. Once you choose the desired option, the settings will be saved to the radio.
Options: SAVE END/SAVE NEW
Default: SAVE END
SAVE END: Saves the settings to the current or new channel and exits the Add Channel Wizard.
SAVE NEW: Saves the settings to the current or new channel and goes back to the first step in the Add Channel Wizard to change or create a new channel.

Note

TX-CTCSS, TX-DCS and TX-POWER options are unavailable in the Channel Wizard if the Channel Type chosen is RX-ONLY.

Setting Non-Standard CTCSS or DCS

How to Set Non-Standard CTCSS

The KG-S65G supports non-standard CTCSS tone 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-S65G supports non-standard DCS codes ranging from 000-766, except any 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.

DTMF Encoding

The KG-S65G features dual-tone multi-frequency (DTMF) encoding. This enables the radio to perform a number of useful signaling operations.

Using the DTMF Keypad

The KG-S65G has a full function DTMF keypad. While pressing the [PTT] key to transmit, press the key on the keypad that corresponds to the DTMF tone that you wish to send. The number keypad on the radio corresponds to DTMF codes as follows:

Sending a Radio ID

The KG-S65G is capable of automatically sending a radio ID number using DTMF functionality. When activated, the radio ID will be sent during a transmission. When the radio ID is transmitted, radios capable of displaying a radio ID will typically show the ID number on the display while receiving the transmission. A radio ID could be referred to as an ANI or a PTT ID.

The KG-S65G has three system menu options related to configuring the radio ID: PTT-ID (page 79), RADIO-ID (page 78), and ID-DELAY (page 79).

To set a radio ID, long press [MENU] and navigate to the RADIO-ID menu option (page 78). Press [MENU], input the desired number, then press [MENU] to confirm and [EXIT] to return to standby.

To transmit the radio ID, long press [MENU] and navigate to the PTT-ID menu option (page 79). Press [MENU], choose whether to transmit the ID at the beginning of transmission (BOT), end of transmission (EOT), or both beginning and end (BOTH). Press [MENU] to confirm and [EXIT] to return to standby.

You can delay transmission of the radio ID for a specific time using the ID-DELAY menu option (page 79). This delay time can be set to one of 30 levels in 100ms increments.

Calling a specific radio using an ID

The KG-S65G also supports the ability to call another radio directly, using its Radio ID. To enable this function, you must activate and configure all radios in your fleet to

transmit the Radio ID (see Sending a Radio ID on page 98) and select either the QT+DTMF or QT*DTMF filter option in MUTEMODE (page 58).

To call a specific radio, you must know its radio ID. After pressing PTT and allowing your radio time to transmit its radio ID, use a Programmable Function key (see Transmitting DTMF Tones on page 100) to send the pre-programmed radio ID that you are calling or enter the radio ID manually using the keypad while holding PTT. Use the F2 key to enter the # symbol after the ID when the ID is shorter than six digits.

Once a KG-S65G receives a DTMF signal matching its radio ID, it will play a ring sound and then open the speaker to allow the incoming transmission to be heard. The length of the ring sound can be set using the RING system menu option (page 80) or in the programming software.

Up to 20 Call ID tones can be assigned using the programming software.

Transmitting DTMF Tones

The KG-S65G provides a way to send pre-configured DTMF tones via the Push-to-Talk (PTT) key. The programming software allows the defining of up to 20 Call ID

tones. Each channel can be assigned a Call ID tone using the CALL-GRP area menu item (page 59).

Holding the PTT will transmit the Call Code sequence defined for the Call Group assigned to the channel.

Alert Tone (Single-Tone Pulse Frequency)

Some repeaters require a tone burst to be transmitted to signal the repeater to transmit. This is not often used in the United States and is more common in Europe.

The KG-S65G supports this functionality. Use the ALERT menu option (page 80) to select the specific hertz of the tone that is needed (1750Hz is most common and is the default). To send the tone, press the [S2] side key while transmitting.

Remote Control

The Remote Control function allows some settings of the KG-S65G to be modified remotely. The remote control function must be configured using the PC programming software, and the radio used to control the KG-S65G remotely must have DTMF

support.

Programming Software Settings

Open the Wouxun PC programming software and select the Configuraton Settings tab. You will see a box on the right side with the following six entry fields: Radio ID, Control Code, Kill, Monitor, Stun and Inspect.

Radio ID: The ID of the radio. This setting has uses other than within the remote control function and can be changed via the radio menu also (see RADIO-ID, page 78). Generally when using radio IDs, each radio in your group should have a unique value.

Control Code: The Control Code value determines if the radio will allow requests to be controlled remotely. The control code is a value that you determine. This number works like a password. The remote radios must send the matching code in order to activate remote control functions. The control code must be between 3-6 digits and cannot begin with 0.

Stun, Kill, Monitor and Inspect

The following details how to perform the Stun, Kill, Monitor, and Inspect remote control functions. These functions cannot be activated while a transceiver is in repeater mode.

In the following example, assume a Control Code of 654321 and a Radio ID of 123456 have been configured in the programming software.

Stun

Stun prevents a radio from transmitting.

To activate the stun function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: Control Code + CB (DTMF stun code) + Radio ID. Using our example, the transmitted sequence would be: 654321 CB 123456. On the controlled radio, if the received Control Code matches the Control Code and the DTMF ID matches, the stun function will be activated.

To reactivate a stunned radio, send the stun sequence again.

Kill

Kill prevents a radio from transmitting or receiving.

To activate the stun function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: Control Code + AB (DTMF kill code) + Radio ID. Using our example, the transmitted sequence would be: 654321 AB 123456. On the controlled radio, if the received Control Code matches the Control Code and the DTMF ID matches, the kill function will be activated.

To reactivate a killed radio, send the kill sequence again.

Monitor

Monitor opens the microphone on a remote radio, forcing the radio to transmit for 15 seconds. No input is needed on the remote radio.

To activate the monitor function on a remote radio, perform the following steps. From the controlling radio, transmit a DTMF sequence matching the following: Control

Code + DA (DTMF monitor code) + Radio ID. Using our example, the transmitted sequence would be: 654321 DA 123456. On the controlled radio, if the Control Code matches the Control Code and the DTMF ID matches, the monitor function will be activated for 15 seconds.

Inspect

Inspect forces the remote radio to transmit a DTMF sequence. This is useful for confirming that the radio is in range and is responding to commands.

To activate the monitor finction on a remote radio, perform the folling steps. From the controlling radio, transmit a DTMF sequence matching the following: Control Code + DB (DTMF inspect code) + Radio ID. Using our example, the transmitted sequence would be: 654321 DB 123456. On the controlled radio, if the received Control Code matches the Control Code and the DTMF ID matches, the inspect function will be activated.

Troubleshooting

Before assuming your KG-S65G 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.	■ Check volume level. ■ Disable CTCSS/DCS or be sure setting matches incoming transmission. ■ Check squelch settings.
Keypad is unresponsive	■ Check if keypad has been locked. ■ Check if other keys are currently pressed
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.

Problem	Solution
Cannot power on	■ Check that the battery pack is attached correctly. ■ Check that the battery pack is fully charged.
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	TX: GMRS Frequencies (462-467 MHz) RX: 400-480 MHz / 76-108 MHz (FM)
Memory Channels	400
Work Mode	F3E
Work Temperature	-20°C~+40°C / -4°F~140°F
Frequency Step	12.5 / 25KHz
Antenna Impedance	50Ω
Voltage	7.4VDC
Weight	8.40oz / 238g
Size	4.53 × 2.14 × 1.36 (in) / 115 × 54.3 × 34.6 (mm)

Receiver	Wide Band	Narrow Band
Sensitivity	0.25μV SINAD:12dB	
Squelch	ON: -119dbm OFF:-122dbm	
Audio Power	≤500mW	
Audio Distortion	≤5%	
Mic Modulation	120mV	
Mic Distortion	12mV	
CTCSS/DCS Decode	500Hz	
CTCSS/DCS Encode	0.6KHz ± 0.1KHz	0.35KHz ± 0.03KHz
SINAD	≤45db	≤45db

Transmitter	Wide Band	Narrow Band
Adjacent Channel Power	≥70dB	≥60dB
Spurious	≤-60dBm	≤-60dBm
Audio Distortion	+3dB (0.3~3KHz)	+3dB (0.3~2.55KHz)
Max Frequency Offset	±5KHz	±2.5KHz
Inter-Modulation	≤65dB	≤-60dB
Frequency Stability	±2.5ppm	
Audio Distortion	≤5%	

Standard CTCSS and DCS Tones

The following is a list of the standard CTCSS and DCS tones supported by the KG-S65G. Some radios display a number instead of a specific tone. The number to the left of the tone matches what is used by most manufacturers.

CTCSS

1	67.0	11	94.8	21	131.8	31	171.3	41	203.5
2	69.3	12	97.4	22	136.5	32	173.8	42	206.5
3	71.9	13	100.0	23	141.3	33	177.3	43	210.7
4	74.4	14	103.5	24	146.2	34	179.9	44	218.1
5	77.0	15	107.2	25	151.4	35	183.5	45	225.7
6	79.7	16	110.9	26	156.7	36	186.2	46	229.1
7	82.5	17	114.8	27	159.8	37	189.9	47	233.6
8	85.4	18	118.8	28	162.2	38	192.8	48	241.8
9	88.5	19	123.0	29	165.5	39	196.6	49	250.3
10	91 5	20	127 3.	30	167.9	40	199.5	50	254.1

DCS codes ending in *N* are positive. Negative DCS codes end in *I*. The KG-S65G 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 GMRS Channels and Frequencies

Simplex Channels

Ch.	Name	Frequency	Power
001	GMRS-01	462.5625	H
002	GMRS-02	462.5875	H
003	GMRS-03	462.6125	H
004	GMRS-04	462.6375	H
005	GMRS-05	462.6625	H
006	GMRS-06	462.6875	H
007	GMRS-07	462.7125	H
008	GMRS-08	467.5625	L
009	GMRS-09	467.5875	L
010	GMRS-10	467.6125	L
011	GMRS-11	467.6375	L

Ch.	Name	Frequency	Power
012	GMRS-12	467.6625	L
013	GMRS-13	467.6875	L
014	GMRS-14	467.7125	L
015	GMRS-15	462.5500	H
016	GMRS-16	462.5750	H
017	GMRS-17	462.6000	H
018	GMRS-18	462.6250	H
019	GMRS-19	462.6500	H
020	GMRS-20	462.6750	H
021	GMRS-21	462.7000	H
022	GMRS-22	462.7250	H

Repeater Channels

Ch.	Name	Receive Frequency	Transmit Frequency	Max Power
023	RPT-15	462.5500	467.5500	High
024	RPT-16	462.5750	467.5750	High
025	RPT-17	462.6000	467.6000	High
026	RPT-18	462.6250	467.6250	High
027	RPT-19	462.6500	467.6500	High
028	RPT-20	462.6750	467.6750	High
029	RPT-21	462.7000	467.7000	High
030	RPT-22	462.7250	467.7250	-High

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		

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 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-S65G-2405-V1.0

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.

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

Accord to that antenna length in different regions, only below type antenna was authorized use in the product.

Antenna Model: AN0-012

Antenna Type: Whip steel antenna

Antenna Gain: 2.15dBi

SAR tests are conducted using standard operating positions accepted by FCC with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is a available for sale to the public, it must be tested and certified to the FCC that is does not exceed the exposure limit established by the FCC. Tests for each product are performed in positions and locations as required by the FCC.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines when used with and accessory designated for this product or when used with and accessory that contains no metal.

To maintain compliance with FCC RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

The equipment complies with FCC radiation exposure limits set forth for and uncontrolled environment. In order to comply with the FCC RF exposure requirement, the antenna installation must comply with following:

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk(PTT) button is pressed.

The device is authorized to operate at a duty factor not to exceed 50%.

The Radio is pre-configured with 8 GMRS repeater channels: 467.5500, 467.5750, 467.6000, 467.6250, 467.6500, 467.6750, 467.7000 and 467.7250MHz. In basic terms, a repeater is a device that is used to increase the range of two way radios. Repeaters will receive a transmission on one frequency and simultaneously rebroadcast that transmission on different frequency. Repeaters are often set up in a fixed location and connected to an antenna that is mounted at a higher elevation to provide better range than is normally available with radio-to-radio(simplex) communications. Using GMRS repeaters can significantly increase the range of your radio, but just tuning to one of the repeater channels isn't necessarily going to work. You first have to be sure there is a repeater listening on that channel's frequency, and you have to be within range of that repeater. It is important to keep in mind that a GMRS repeater is not necessarily intended for public use. They are owned by individuals and are sometimes intended for private use or require permission to use. Before connecting to a GMRS repeater, be sure that you have permission or that the owner is fine with public use. The description on the my GMRS website usually indicates if permission is required and provides a way to get in touch with the owner.

§ 95.1743 Minor GMRS operators.

Operators under the age of 18 will not be held personally responsible, pursuant to § 95.343, for improper operation of a GMRS repeater or base station. The holder of the individual license under which the minor operates is solely responsible for any improper operation that occurs while an individual under the age of 18 is operating the station