Thank you for purchasing the Wouxun KG-Q10H portable Amateur radio.

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

feedback@buytwowayradios.com
www.buytwowayradios.com

Contents

Safety Information 11
FCC Licensing Information 14
Getting Started 15
Feature Summary 15
What's Included 17
Front Panel Guide 18
Right / Left Side Guide 19
Display Guide 20
Dust and Water Protection 21
Installing and Removing the Battery 22
Charging the Battery 23
Antenna Information 25
Installing the Belt Clip 25
Operation 26

Introducing Amateur Radio and the KG-Q10H.....26
Power On/Off and Adjusting Volume.....27
Your First Transmit.....27
Dual Display: Using Areas “A” and “B”.....28
Channel and Frequency Modes.....30
Channels and Tones.....32
Using Repeaters.....33
Channel Scan.....34
Priority Channel Scan.....35
Scan Groups.....38
Scanning CTCSS / DCS Codes.....39
NOAA Weather Mode.....40
Key Lock.....42
Keypad Hotkeys.....43

Keypad Function Keys 44
Programmable PTT Keys.....46
Programmable Function Keys 47
FM Radio 52
Stopwatch Timer 53
Area Menu Functions..... 55
Using the Area Menu 55
[01: SQUELCH] Squelch.....55
[02: TX-POWER] Output Power.....56
[03: W/N] Bandwidth 56
[04: STEP] Frequency Step.....56
[05: RX-CTCSS] Receive CTCSS Tone 57
[06: RX-DCS] Receive DCS Code.....57
[07: TX-CTCSS] Transmit CTCSS Tone 57

[08: TX-DCS] Transmit DCS Code....58
[09: SHIFT] Frequency Shift Direction....58
[10: OFFSET] Offset Frequency....59
[11: CH-NAME] Channel Name....59
[12: CH-FAV] Favorite Channel....60
[13: CH-ADD] Add Memory Channel....61
[14: CH-DELETE] Delete Memory Channel....61
[15: BUSY-LOCK] Busy Channel Lockout....61
[16: MUTE-MODE] Speaker Mute....62
[17: SCRAMBLE] Scrambler....62
[18: COMPAND] Compander....62
[19: SEND-LOC] Send Location....63
[20: CALL-GROUP] Select Call Group....63
[21: SCAN-ADD] Scan Add / Delete....64

[22: TONE-SCAN] CTCSS/DCS Scanning....64
[23: SCAN-GROUP] Scan Group....64
[24: VFO-SCAN] Frequency Mode Scan Options....65
[25: WORK-MODE] Work Mode....65
[26: AM-MODE] AM Modulation Mode....66
System Menu Functions....67
Using the System Menu....67
[01: BRT-ACTIVE] Active Brightness....67
[02: BRT-STANDBY] Standby Brightness....67
[03: BACKLIGHT] Backlight Timeout....68
[04: BATT-SAVER] Battery Saver....68
[05: WX-ALERT] Weather Alert....68
[06: WX-NOTIFY] Weather Alert Notification Setting....69
[07: THEME] Display Theme....69

[08: SCAN-MODE] Scan Mode 70
[09: SC-TONE-DET] Tone Scanning Detection 70
[10: PRI-SCAN] Priority Scan 71
[11: PRI-CH] Priority Channel 71
[12: TONE-SAVE] CTCSS/DCS Tone Save Options 72
[13: ROGER] Roger Beep 72
[14: TOT] Transmit Overtime Timer 73
[15: TOA] Transmit Overtime Alarm 73
[16: VOX] Voice Activated Transmit 74
[17: VOICE] Voice Guide 74
[18: BEEP] Button Beeps 74
[19: PTT1-DEF] Push-To-Talk 1 Key Assignment 75
[20: PTT2-DEF] Push-To-Talk 2 Key Assignment 75
[21: PF1-SHRT] Side Key PF1 Short Press Assignment 75

[22: PF1-LONG] Side Key PF1 Long Press Assignment 76
[23: PF2-SHRT] Side Key PF2 Short Press Assignment 76
[24: PF2-LONG] Side Key PF2 Long Press Assignment 77
[25: TOP-SHRT] Top Key Short Press Assignment 77
[26: TOP-LONG] Top Key Long Press Assignment 78
[27: STARTUP] Power On Message 78
[28: TOP-MSG] Custom Top Message 79
[29: AREA-MSG] Custom Area Message 79
[30: AUTOLOCK] Auto Lock 80
[31: SIDETONE] Sidetone Setting 80
[32: RADIO-ID] Edit Radio ID 81
[33: PTT-ID] Radio ID Setting 81
[34: ID-DLY] ID-Delay 82
[35: RING] Ring Time 82

[36: ALERT] Tone Alert....83
[37: TIMER] Stopwatch Timer....83
[38: SMUTESET] Secondary Area Mute Setting....84
[39: BATT-TYPE] Battery Level Display Type....84
[40: RPT-MODE] Repeater Mode....85
[41: RPT-SPK] Repeater Speaker Setting....85
[42: RPT-PTT] Repeater PTT Setting....86
[43: RPT-TONE] Squelch Tone....86
[44: TIME] Time Display....86
[45: TIMEZONE] Set Time Zone....87
[46: FM-RADIO] FM Radio....87
[47: LOCATION] GPS Location Setting....87
[48: RESET] Factory Reset....89
Advanced Operation....90

Setting Non-Standard CTCSS or DCS 90
Adding and Removing Channels 91
GPS / Location Function 95
Cross Band Repeat 100
DTMF Encoding 103
Remote Control 107
Troubleshooting 112
Technical Information 114
Specifications 114
Standard CTCSS and DCS Tones 116
NOAA Weather Channels 118
Optional Accessories 119
Limited Warranty 120

Safety Information

The KG-Q10H is an electrical apparatus, as well as a generator of RF (Radio Frequency) energy, and you should exercise all safety precautions as are appropriate for this type of device.

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

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

Safety Information

⚠ The transceiver should be cleaned with mild detergents and a soft brush or cloth. Avoid cleaning with aggressive chemicals.

⚠ NEVER transmit without a properly connected antenna.

⚠ If an abnormal odor or smoke is detected from the transceiver, power it off immediately, then remove the battery pack. Contact your dealer for further assistance.

⚠ 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-Q10H radio and its accessories. If the transceiver does not function normally, please get in touch with your dealer immediately.
- If you use components or accessories not produced by the Wouxun Company, Wouxun will not guarantee the safety and usability of the transceiver.

Caution

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

FCC Compliance

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

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

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

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

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-Q10H is FCC approved for use on the Amateur Radio Service. The KG-Q10H operates on Amateur Radio Service (HAM) frequencies according to the Federal Communications Commission (FCC) Rules in the United States. As such, a Amateur radio license is required to transmit on these frequencies. To obtain an FCC license, please go to the FCC's web site and complete the testing and license fee requirements.

Feature Summary

- Quad Band Transmit (2m/1.25m/6m/70cm)
- 999 Memory Channels
- 7 NOAA Weather Channels
- NOAA Weather Alerts
- 5 Weather Alert Notifications
- GPS Location Data Display
- Cross Band Repeater
- Up to 6 Watts Output Power
- IP67 Waterproof
- Frequency (VFO) Mode
- USB-C Charging Port
- Simultaneous Dual Channel Receive
- Full Color Dual Channel Display
- 10 Colorful Theme Options
- 4 Customizable Display Themes
- 4 Selectable Power Levels
- Wide/Narrow Bandwidth Selectable
- Standard and Non-Std CTCSS/DCS
- CTCSS/DCS Tone Scan
- Channel Scan
- Priority Channel Scanning
- Favorite Channels
- Scan Group Support
- Group Call/All Call/Select Call
- Display Channel Name, Number, or Frequency
- Custom Display Messages

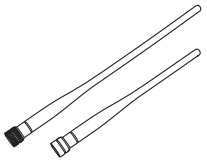
Getting Started

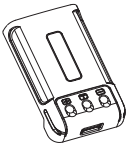
- Incoming Caller ID Display
- DTMF Encode/Decode
- Reverse Frequency
- Talkaround
- VOX
- Receive (RX) Frequency Range:
  - 50-54 MHz (FM)
  - 76-108 MHz (FM)
  - 108-136 MHz (Airband, AM)
  - 136-174 MHz (FM)
  - 222-225 MHz (FM)
  - 320-480 MHz (FM)
  - 714-999 MHz (FM)
- Transmit (TX) Frequency Range:
  - 50-54 MHz/144-148 MHz
  - 222-225 MHz/420-450 MHz
- English Voice Guide
- Superheterodyne Receiver
- Full Backlit Keypad
- Stopwatch Timer
- Clock Display
- Built-in Flashlight
- Remote Stun/Kill/Monitor/Inspect
- 2 Configurable Side Keys
- Configurable Top Key
- 2 Programmable PTT Keys
- PC Programming Software Support

What's Included

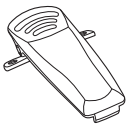
Carefully unpack the contents of the box and be sure that you have the items in the list below. If any items are missing or damaged, please contact your dealer.

Transceiver


High Gain Antennas


Lithium-ion Battery Pack

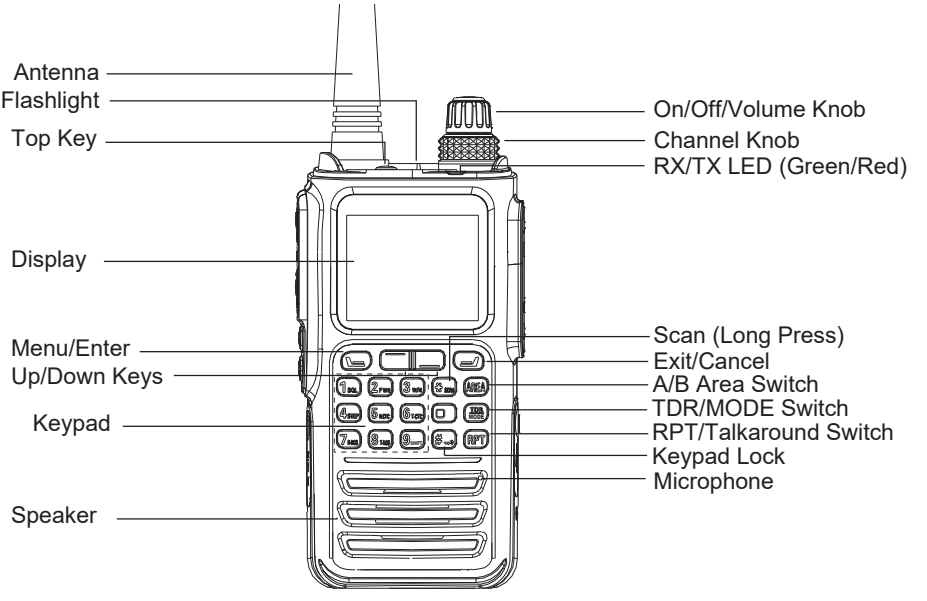
Intelligent Charger


Belt Clip

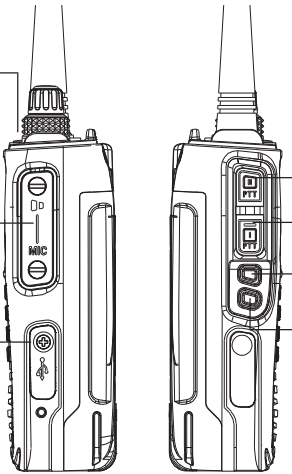
Wrist Strap

User's Manual

Front Panel Guide



Right / Left Side Guide



Top Key
Short Press: FM-RADIO
Long Press: FLASHLIGHT

Earphone Jack

USB-C Charging Port

PTT2
Default: SECONDARY PTT

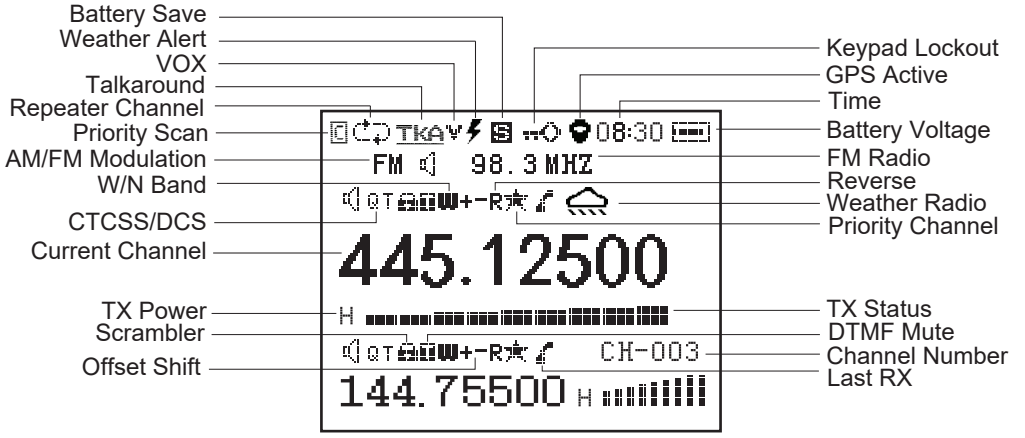
PTT1
Default: MAIN AREA PTT

PF1
Short Press: SCAN
Long Press: LOC-MAP

PF2
Short Press: WEATHER
Long Press: MONITOR

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

Display Guide



Dust and Water Protection

The KG-Q10H is waterproof to IP67 standards. It is dust resistant and rated to withstand any ingress of solid objects and can withstand immersion in up to 1 meter of water for up to 30 minutes. This radio is dust and waterproof only while the battery is properly installed and locked in place with no gaps and all ports are completely sealed with their port covers using the original supplied screws. Use of a headset or other accessory will negate the dust and waterproofing features of this radio. Do not attempt to operate this radio if it has been submerged in water deeper than 1 meter.

- The radio charger is NOT dust or waterproof.
- Charge the radio only under dry conditions.
- DO NOT charge the radio when it is wet.
- DO NOT expose the radio and charger to wet environments when charging.
- If the screws and/or port covers are removed, the radio is no longer IP67 compliant.
- Use only the supplied screws to seal the port covers.

Installing and Removing the Battery

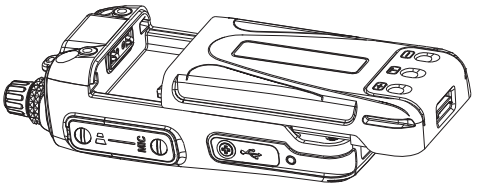
The lithium-ion battery pack included with the radio is not fully charged out of the box. It is recommended to charge it before using the radio for the first time.

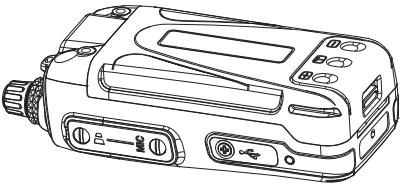
Installing the Battery

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-Q10H 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-Q10H 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-Q10H 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-Q10H includes two antennas, each with an SMA female connector. One is tuned for 2m and 70cm frequencies, the other is tuned for 6m and 1.25m frequencies. For best performance, use the antenna that is tuned for the band you wish to use.

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 Amateur Radio and the KG-Q10H

The Amateur Radio Service (ham radio) is a two way radio service that offers some powerful benefits. Users are allowed to use advanced equipment, such as repeaters that enable you to transmit over large areas. The Amateur Radio Service requires the individual user to study for an exam and purchase a license, and a license covers the individual user for 10 years.

The KG-Q10H was designed to allow you to take advantage of all that ham radio has to offer and more. This fully configurable, quad band radio is built to transmit on amateur frequencies on the 1.25 meter, 2 meter, 6 meter and 70cm ham bands, supporting both simplex and repeater capable operation.

Read this chapter to learn the basics of using your new KG-Q10H 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-Q10H for the first time, the display will likely show the currently selected channel name with a small "CH-001" designating the channel number on the right side. Turn the Channel Knob or the [UP] / [DOWN] keys to navigate through the list of channels.

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 55) 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 PTT1 button (lower PTT) on the side while talking and release the PTT1 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.

Dual Display: Using Areas "A" and "B"

The KG-Q10H is two radios in one! The dual display function allows you to monitor two channels at the same time. While this may sound complex, the KG-Q10H is designed to make this powerful feature easy to use.

The display is divided in half with the top half referred to as "Area A" and the bottom half referred to as "Area B". Each area controls a separate radio. The current primary

area will be larger, occupying about two-thirds of the screen. When you perform an operation on the radio, such as changing channels or transmitting, that operation is performed on the currently active area.

Turning the Dual Display On and Off

The dual display is on by default on the KG-Q10H. Instead of a frequency or channel name, customizeable text is displayed in the inactive area when the dual display is off. Use the [TDR/MODE] key on the keypad to toggle between a single and dual display.

Changing the Primary Area

With Dual Display on, press the [AREA] key on the keypad to switch the primary area.

With Dual Display off, pressing the [AREA] key will switch the currently active area as well, but will also turn off the previously active area. For example, with Area "A" on and Area "B" off, pressing [AREA] would turn on Area "B" and turn off Area "A".

Important!

When the A or B area of the screen is the larger, dominate area, this indicates that area is the Primary and the other area is the secondary side. This is very important, as all of the active operations will be performed on the Primary side.

Channel and Frequency Modes

The KG-Q10H 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-Q10H is pre-configured with channels programmed to amateur frequencies, but allows users to save custom channels as well (up to 999). 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 56) allows you to adjust the step between each frequency. To enter a frequency directly, type the frequency using the keypad.

Note

When entering 50 MHz frequencies, prefix with a zero.

The KG-Q10H can only transmit on frequencies assigned to the amateur radio bands. All other available frequencies entered in Frequency mode or through the programming software are receive only. The WORK-MODE menu option (page 65) allows you to switch between Channel and Frequency (VFO) modes. Long press the AREA key to jump between bands in Frequency mode.

The KG-Q10H supports the following frequency bands:

KG-Q10H Frequency Bands
50 - 54 MHz (FM)
108 - 136 MHz (AM)
136 - 174 MHz (FM)
222 - 225 MHz (FM)
320 - 400 MHz (FM)
400 - 480 MHz (FM)
714 - 999 MHz (FM)

Note: This list includes all of the bands on which the radio can recieve. Not all of these bands are available to transmit.

Channels and Tones

The KG-Q10H supports amateur (ham) frequencies 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-Q10H supports both standard and non-standard CTCSS tones and DCS codes. These tones and codes can be enabled and configured in the [RX-CTCSS], [RX-DCS], [TX-CTCSS] and [TX-DCS] menu options (pp 57-58). Instructions for entering non-standard tones and codes can be found in the Advanced Operations section of this manual (page 90).

The KG-Q10H supports 999 customizable memory channels. Instructions for adding and deleting channels are located in the Advanced Operations section (page 91).

Using Repeaters

The KG-Q10H is is designed to be used with repeaters. The channels can be fully programmed with repeater offsets and split tones.

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 amateur repeaters can significantly increase the range of your radio, but just tuning to one of the repeater frequencies 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.

One resource for locating amateur repeaters is the website www.repeaterbook.com. This site has an extensive database of ham radio repeaters throughout the world.

Channel Scan

The [*SCAN] key controls the scan function. To activate Channel Scan, you must be in Channel Mode. Press and hold the [*SCAN] key for two seconds or until you hear "Scan Begin". The radio will scan each channel for activity, starting from the current channel.

Pressing the [UP] / [DOWN] keys while scanning will change the direction of the scan from low to high ([UP]) or high to low ([DOWN]). Press any other key to stop the scan. Refer to the Scan Mode menu item (page 70) for more information on the types of scans available.

The scan function can also be assigned to the programmable PF1, PF2 or TOP buttons from the menu (pp. 75-78).

Individual channels can be added or removed from the scan list using the Scan Add [SCAN-ADD] menu option (page 64).

Priority Channel Scan

The KG-Q10H supports Priority Channel Scanning. When the Priority Channel Scan function is activated using the PRI-SCAN menu option (page 71), the KG-Q10H 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-STANDBY and ON-ALWAYS. If activi-

ty is detected on the priority channel with ON-STANDBY selected, the priority channel activity will be heard only if the radio is not receiving a transmission on the current channel. If ON-ALWAYS is selected, the priority channel activity will be heard even if a transmission is already being received on the current channel. The ON-ALWAYS option will momentarily 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 71). To activate the Priority Channel Scanning feature, use the [PRI-SCAN] menu item (page 71).

Note

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

Frequency Scan

The KG-Q10H includes advanced options for scanning frequencies. The VFO-SCAN menu option (page 65) allows you to set the frequency bands and ranges to be scanned when the [*SCAN] key is pressed to perform a scan while in Frequency

(VFO) Mode.

The CUR-BAND option will only scan the frequencies in the currently active band. For instance, if you are using the 50MHz band, the radio will only scan the frequencies on that band.

The RANGE option will scan all frequencies that are set within a predetermined range. A frequency range for the Range option can be configured in the programming software. This option is located in the VFO Scan Mode section of the Scan Group tab.

The ALL option will scan all frequencies on all of the available bands.

To activate Frequency Scan, press and hold the [*SCAN] 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 56).

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 70) for more information on the

types of scans available.

The scan function can also be assigned to the programmable PF1, PF2 or TOP buttons from the menu (pp. 75-78).

Scan Groups

The KG-Q10H is equipped with the ability to create scan groups. This is a handy tool for power users, particularly those managing a large number of channels or who operate in various regions. Scan Groups allow more selective scanning.

To add a channel to a Scan Group it must first be added to the scan list with the [SCAN-ADD] option in the System Menu (page 64).

Your KG-Q10H is configured to scan all channel groups by default, however it can be configured to scan any specific group of channels you desire using the [SCAN-GROUP] option in the Area Menu (page 64).

The KG-Q10H supports 10 scan groups. Channel ranges for these groups can be defined via the PC programming software.

Scanning CTCSS / DCS Codes

The KG-Q10H 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 TONE-SCAN menu item. 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] arrow keys to scan in a different direction. See the TONE-SCAN menu item (page 64) for more information.

The TONE-SCAN feature saves the tone to the channel when you press MENU after a tone has been detected. When saving the tone, TONE-SCAN looks at the TONE-SAVE option in the System Menu (page 72) 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.

To activate NOAA Weather Mode, you must first assign the WEATHER function to either the [PF1], [PF2] or [TOP] key (pp 75-78). Once it is assigned, press the appropriate PF key active it. The display will change to show a NOAA broadcast station frequency starting with 162 MHz and a rain cloud icon will appear above it to indicate the radio is in Weather Mode. Use the Channel/Frequency Knob or the arrow keys to navigate to your preferred NOAA station. Your most recently selected station will be remembered each time you enter this mode.

A list of supported NOAA frequencies is included in the Technical Information chapter of this manual (page 118).

To exit Weather Mode, press the press the PF 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 Area A only.
- While in Weather Mode the menu is not accessible on Area A.

Weather Alert

The KG-Q10H features a Weather Alert option (page 68). When Weather Alert mode is active and the radio is in standby mode, the KG-Q10H 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-Q10H will produce an alert according the option chosen in the WX-NOTIFY menu function (page 69). For all WX-NO-

TIFY alert options other than WEATHER, pressing any key will acknowledge and end the alert.

The five alert options are listed in the following chart.

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

Key Lock

The keys on the KG-Q10H can be locked to prevent them from being accidentally

pressed. When the Key Lock is enabled, all buttons except the [#] and both PTT keys will be disabled.

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

The KG-Q10H 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 80).

Keypad Hotkeys

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

Key	Hotkey	Function/Menu Item
1	SQL	Squelch menu function (page 55)
2	PWR	Transmit Power menu function (page 56)
3	W/N	Bandwidth menu function (page 56)
4	STEP	Frequency Step menu function (page 56)
5	R-CTC	Receive CTCSS Tone menu function (page 57)
6	T-CTC	Transmit CTCSS Tone menu function (page 57)
7	R-DCS	Receive DCS Tone menu function (page 57)
8	T-DCS	Transmit DCS Tone menu function (page 58)
9	SHIFT	Frequency Shift Direction menu function (page 58)

Keypad Function Keys

The keypad includes 9 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
AREA	Short Press: Switches primary and secondary areas (page 29) Long Press: Switches band in Frequency Mode (page 30)
TDR MODE	Short Press: Switch single and dual display (page 29) Long Press: Switches Channel/Frequency Modes (page 30)
RPT	Short Press: Cross Band Repeat (page 107) Long Press: Talkaround (page 49)
*SCAN	Short Press: Reverse Frequency (page 48) Long Press: Channel/Frequency Scan (page 34)
#LOCK	Press 2 seconds to lock/unlock keypad (page 42)
MENU	Short Press: Enter Area menu, select options and save selection Long Press: Enter System menu
EXIT	Exit the menu or cancel a function
UP	Goes to the next channel, frequency or menu item
DOWN	Goes to the previous channel, frequency or menu item

Programmable PTT Keys

The KG-Q10H features two push-to-talk (PTT) buttons designated [PTT1] and [PTT2]. PTT1 is the lower and primary PTT by default. PTT2 is the upper PTT. These buttons can be configured to perform specific transmit operations from the System Menu (page 75). They can also be assigned via the programming software.

Default Key	Function	Description
	AREA-A	Transmits only on Area A
	AREA-B	Transmits only on Area B
PTT1	MAIN	Transmits on the active area
PTT2	SECONDARY	Transmits on the non-active area
	LOW-PWR	Transmits on the active area at low power
	XHIGH-PWR	Transmits on the active area at ultra high power
	CALL	Transmits the Call Group tone assigned to the active area channel (page 63)

Programmable Function Keys

The KG-Q10H has two programmable keys called [PF1] and [PF2] located on the left side of the radio below the PTT keys. 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] keys from the menu (pp. 75-78). They can also be assigned via the programming software.

Default Key	Function	Description
	DISABLE	Disable the Function Key press
	ALARM	Transmit alarm (page 50)
	BACKLIGHT	Activate backlight (page 51)
	BRIGHT+	Increases brightness by 1
	FAVORITE	Favorite Channels (p 51)
TOP Long	FLASHLIGHT	Activate flashlight (page 51)
TOP Short	FM-RADIO	Activate FM Radio (page 52)

Default Key	Function	Description
PF1 Long	LOC-MAP	Display GPS Location Map (page 99)
PF2 Long	MONITOR	Monitor channel (page 50)
	REVERSE	Activate reverse frequency (page 48)
PF1 Short	SCAN	Scan function (page 34)
	SCAN-CTC	Activate CTCSS tone scan (page 39)
	SCAN-DCS	Activate DCS tone scan (page 39)
	SOS	Transmit SOS (page 50)
	STROBE	Activate flashing strobe light (p 51)
	TALKAROUND	Activate talkaround (page 49)
PF2 Short	WEATHER	Activate Weather Mode (page 40)

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 fre-

quency 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.

Press the [*SCAN] 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 also be assigned to the [PF1], [PF2] or [TOP] buttons from the System Menu (pp. 75-78). 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. Long press the [RPT] key on the active channel to activate or deactivate this feature. The Talk Around function can also be assigned to the [PF1], [PF2] or [TOP] buttons from the System Menu (pp. 75-78).

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 [PF1], [PF2] or [TOP] key (pp. 75-78).

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 de-activate the alarm. To activate the alarm function, it must first be assigned to the [PF1], [PF2] or [TOP] key (pp. 75-78).

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 [PF1], [PF2] or [TOP] key (pp. 75-78).

Display Blacklight

The KG-Q10H 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 62). It can be assigned to the [PF1], [PF2] or [TOP] key using the System Menu (pp. 75-78).

Flashlight/Strobe

The KG-Q10H has a built-in LED flashlight at the top of the radio. It can operate in two modes. [FLASHLIGHT] provides steady illumination. [STROBE] functions as a flashing strobe light. To access one or both of these features, they must first be assigned to the [PF1], [PF2] or [TOP] key using the System Menu (pp. 75-78).

Favorite Channels

The KG-Q10H 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 60). This function does not work in Frequency Mode.

The Favorite Channels function can be assigned to the [PF1], [PF2] or [TOP] key using the System Menu (pp. 75-78).

FM Radio

The KG-Q10H features a commercial broadcast FM Radio. To access the FM Radio, it must first be assigned to the [PF1], [PF2] or [TOP] key (pp. 75-78). When active, the current FM radio frequency will appear near the top of the display above Area A. To find an active broadcast station, press [*SCAN] to begin the FM Radio scanning function. Press any key to stop the scan.

To enter a specific radio frequency directly, press the [RPT] key while the FM radio is on.

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 87).

Stopwatch Timer

The KG-Q10H has a built-in stopwatch timer. It can be enabled using the TIMER menu option (page 83). Once enabled, Press [#] 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.

Operation

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.

Using the Area Menu

The Wouxun KG-Q10H 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 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 four power optons: Low, Mid, High and UltraHigh. Wattage is different for each band and is approximate. Refer to the Technical Specifications chapter (page 114) for details.
Options: HIGH/MID/LOW/UltraHigh
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/8.33K/10K/12.5K/25K/50K/100K

Default: 5K

[05: RX-CTCSS] Receive CTCSS Tone

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

[06: RX-DCS] Receive DCS Code

Function: Sets the receiving DCS code for the selected channel. Short press the [#] key to choose DCS+ (N) or DCS- (I) codes. Use the arrow keys to select your preferred code or the [*] key to choose OFF and then MENU to confirm.
Options: OFF/105 DCS+ Codes/105 DCS- Codes
Default: OFF

[07: TX-CTCSS] Transmit CTCSS Tone

Function: Sets the transmitting CTCSS tone for the selected channel. Use the arrow

keys to select your preferred code or the [*] key to choose OFF and then MENU to confirm.

Options: OFF/50 CTCSS Tones
Default: OFF

[08: TX-DCS] Transmit DCS Code

Function: Sets the transmitting DCS code for the selected channel. Short press the [#] key to choose DCS+ (N) or DCS- (I) codes. Use the arrow keys to select your preferred code or the [*] key to choose OFF and then MENU to confirm.

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

[09: SHIFT] Frequency Shift Direction

Function: Allows you to adjust the direction of the offset frequency set in Area Menu Option 10 (page 59) . Available only in Frequency mode.

Options: OFF/+/-
Default: OFF

[10: OFFSET] Offset Frequency

Function: Sets the offset frequency for accessing a repeater. Frequency must be typed in from the keypad of the radio. Offset works in conjunction with the Shift setting (option 9) to set the transmit frequency of the radio when transmitting to a repeater. If Shift is set to + or -, the MHz specified by Offset will be added to or subtracted from the active frequency when PTT is pressed to determine the transmit frequency. For example, if the current frequency is 442.000 MHz with SHIFT set to '+' and OFFSET set to '5.000', the radio will transmit on 447.000 MHz. Available only in Frequency mode.

Options: None

Default: None

[11: 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 position. Press the [PF2] key to move back to the previous position. When you finish editing the name, press [MENU] to save. Pressing the [*] 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 [#] key will clear the entire name field. This option is only available in Channel Mode.

Options: 8 Characters
Default: None

[12: 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 [PF1]. [PF2] or TOP] key. The FAVORITE function does not work in Frequency Mode.

Options: ON/OFF
Default: OFF

[13: CH-ADD] Add Memory Channel

Function: Adds a channel to the memory channel list. Refer to the section Adding and Removing Channels (page 91) for details.
Options: None
Default: Current channel

[14: CH-DELETE] Delete Memory Channel

Function: Deletes a channel from the memory channel list. Refer to the sub-section How to Delete a Channel (page 95) for details.
Options: None
Default: Current channel

[15: BUSY-LOCK] 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

[16: MUTE-MODE] 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).

[17: SCRAMBLE] Scrambler

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

[18: COMPAND] Compander

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

[19: SEND-LOC] Send Location

Function: Transmits the GPS location of the radio when enabled. Useful for geolocation of users in your group equipped with GPS capable Wouxun Q Series radios. See page 95 for more about how to use location features.
Options: ON/OFF
Default: OFF

[20: CALL-GROUP] 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: 1-99 Groups
Default: 1

[21: 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

[22: TONE-SCAN] 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] arrow keys to scan in a different direction. See page 39 for more information.

[23: SCAN-GROUP] Scan Group

Function: Allows selection of a specific channel group for scan, or all groups. When a

group number is selected, only channels in that group will be scanned when the Scan feature is activated. Groups can be defined in the programming software.

Options: ALL/1-10
Default: ALL

[24: VFO-SCAN] Frequency Mode Scan Options

Function: Defines what frequencies are scanned when scan mode is activated while in Frequency (VFO) Mode.
Options: CUR-BAND/RANGE/ALL
Default: CUR-BAND
CUR-BAND: Only scans the current frequency band.
RANGE: Scans a frequency range that can be configured in the programming software.
ALL: Scans all frequencies in all bands sequentially.

[25: WORK-MODE] Work Mode

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

Options: CH-NAME/CH-NUMBER/CH-FREQ/VFO (FREQ)
Default: CH-NAME
CH-NAME: Channel Mode. Displays the channel name (Example: SPLX:01)
CH-FREQ: Channel Mode. Displays the channel frequency (Example: 146.47500)
CH-NUM: Channel Mode. Displays the channel number (Example: CH-001)
VFO (FREQ): Frequency Mode. Allows directly tuning any frequency in the wide receive range of the KG-Q10H. The radio transmits on amateur frequencies only.

[26: AM-MODE] AM 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. It is only available on Area A. Note: the AM RX&TX option is not available on all bands.
Options: OFF/AM RX/AM RX&TX
Default: OFF

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, 3 second press of the [MENU] key.

[01: BRT-ACTIVE] Active Brightness

Function: Sets the brightness of the LCD display backlight while the radio is transmitting, receiving, or otherwise active. There are 10 brightness levels from lowest (1) to highest (10).
Options: 1-10
Default: 4

[02: BRT-STANDBY] Standby Brightness

Function: Sets the brightness of the LCD display backlight while the radio is in standby. There are 10 brightness levels from lowest (1) to highest (10). The backlight can also be turned off.

Options: OFF/1-10
Default: 2

[03: BACKLIGHT] 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: ALWAYS OFF/1-20S/ALWAYS ON
Default: 10 Seconds

[04: BATT-SAVER] 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

[05: 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

[06: WX-NOTIFY] Weather Alert Notification Setting

Function: Sets type of notification for the alert when a NOAA weather alert signal is received.
Options: WEATHER/ICON-ONLY/TONE/FLASH/TONE+FLASH
Default: WEATHER
ICON-ONLY: Displays weather alert icon and radio remains on regular channel.
TONE: Displays weather icon and emits an alert beep every 60 seconds.
FLASH: Displays weather icon and flashlight LED pulses 5 times every 60 seconds.
TONE+FLSH: Displays icon, emits alert and flashlight LED pulses.
WEATHER: Displays weather icon and radio instantly tunes to Weather Mode.

[07: 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-2

[08: SCAN-MODE] 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.

[09: SC-TONE-DET] Tone Scanning Detection

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

[10: 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 35 to learn more.
Options: OFF /ON-STANDBY/ON-ALWAYS
Default: OFF
OFF: Disabled
ON-STANDBY: Disables Priority Scan during receive
ON-ALWAYS: Enabled

[11: PRI-CH] Priority Channel

Function: Selects the priority channel. This is used during scanning when the Priority Scan (menu option 10) feature is enabled. To select a priority channel, use the

[UP] and [DOWN] keys to select a channel number.
Options: 999 channels
Default: CH-001

[12: 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

[13: 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

[14: 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

[15: 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

[16: 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

[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: PTT1-DEF] Push-To-Talk 1 Key Assignment

Function: Assigns a function to a press of the [PTT1] key. This is the lower PTT located on the left side of the radio. Refer to PTT Key Options on page 54 for more information about each option.
Options: AREA-A/AREA-B/MAIN/SECONDARY/LOW-PWR/XHIGH-PWR/CALL
Default: MAIN

[20: PTT2-DEF] Push-To-Talk 2 Key Assignment

Function: Assigns a function to a press of the [PTT2] key. This is the upper PTT located on the left side of the radio. Refer to PF Key Options on page 54 for more information about each option.
Options: AREA-A/AREA-B/MAIN/SECONDARY/LOW-PWR/XHIGH-PWR/CALL
Default: SECONDARY

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

Function: Assigns a function to a short press of the [PF1] side key. Refer to PF Key Options on page 46 for more information about each option.
Options: DISABLE/ALARM/BACKLIGHT/BRIGHT+/FAVORITE/FLASH-LIGHT/FM-RADIO/LOC-MAP/MONITOR/REVERSE/SCAN/SCAN-CTC/SCAN-DCS/SOS/STROBE/TALKAROUND/WEATHER
Default: SCAN

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

Function: Assigns a function to a long press of the [PF1] side key. Refer to PF Key Options on page 46 for more information about each option.
Options: DISABLE/ALARM/BACKLIGHT/BRIGHT+/FAVORITE/FLASH-LIGHT/FM-RADIO/LOC-MAP/MONITOR/REVERSE/SCAN/SCAN-CTC/SCAN-DCS/SOS/STROBE/TALKAROUND/WEATHER
Default: FM-RADIO

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

Function: Assigns a function to a short press of the [PF2] side key. Refer to PF Key Options on page 46 for more information about each option.

Options: DISABLE/ALARM/BACKLIGHT/BRIGHT+/FAVORITE/FLASH-LIGHT/FM-RADIO/LOC-MAP/MONITOR/REVERSE/SCAN/SCAN-CTC/SCAN-DCS/SOS/STROBE/TALKAROUND/WEATHER
Default: WEATHER

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

Function: Assigns a function to a long press of the [PF2] side key. Refer to PF Key Options on page 46 for more information about each option.
Options: DISABLE/ALARM/BACKLIGHT/BRIGHT+/FAVORITE/FLASH-LIGHT/FM-RADIO/LOC-MAP/MONITOR/REVERSE/SCAN/SCAN-CTC/SCAN-DCS/SOS/STROBE/TALKAROUND/WEATHER
Default: MONITOR

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

Function: Assigns a function to a short press of the [TOP] key. Refer to PF Key Options on page 46 for more information about each option.
Options: DISABLE/ALARM/BACKLIGHT/BRIGHT+/FAVORITE/FLASH-LIGHT/FM-RADIO/LOC-MAP/MONITOR/REVERSE/SCAN/

SCAN-CTC/SCAN-DCS/SOS/STROBE/TALKAROUND/WEATHER
Default: BRIGHT+

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

Function: Assigns a function to a long press of the [TOP] key. Refer to PF Key Options on page 46 for more information about each option.
Options: DISABLE/ALARM/BACKLIGHT/BRIGHT+/FAVORITE/FLASHLIGHT/FM-RADIO/LOC-MAP/MONITOR/REVERSE/SCAN/SCAN-CTC/SCAN-DCS/SOS/STROBE/TALK-AROUND/WEATHER
Default: LOC-MAP

[27: 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

[28: 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 [PF1] key to move to the next position. Press the [PF2] key to move back to the previous position. Pressing the [#] key will clear the entire message field. When you finish editing the message, press [MENU] to save.

Options: 8 Characters

Default: None

[29: 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 ST-MSG option. the current message will be in edit mode and the first character will flash to indicate it is currently being

edited. Press the [UP] and [DOWN] keys to select the desired character, then press the [PF1] key to move to the next position. Press the [PF2] key to move back to the previous position. Pressing the [#] key will clear the entire message field. When you finish editing the message, press [MENU] to save.

Options: 8 Characters
Default: None

[30: AUTOLOCK] Auto Lock

Function: Automatically locks the keypad after 18 seconds.
Options: OFF/ON
Default: OFF
Note: To unlock the radio, hold the [#] key for 2 seconds.

[31: 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.

[32: 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

[33: 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.

[34: ID-DLY] 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 transmission).
Options: 100~3000ms
Default: 1300ms

[35: 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 MUTE-MODE setting is

QT+DTMF or QT*DTMF.
Selectable: OFF/1S-10S (seconds)
Default: 5S

[36: 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 frequency you've selected by pressing the [PF2] key on the side of the radio.

[37: TIMER] Stopwatch Timer

Function: Activates the timer feature. If ON, activate the timer by short pressing [#] in standby mode.
Options: ON/OFF
Default: OFF

[38: SMUTESET] Secondary Area Mute Setting

Function: The Secondary Mute function mutes the speaker on the secondary area when the primary area is used. This prevents conflicting audio sounds and noise from both sides simultaneously when the radio is in dual receive mode.
Options: OFF/ RX/TX/ RX+TX
Default: OFF
TX: Mutes the speaker on the Secondary area when transmitting on the Primary area.
RX: Mutes the speaker on the Secondary area when receiving on the Primary area.
TX+RX: Mutes the speaker on the Secondary area when transmitting or receiving on the Primary area.

[39: BATT-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

[40: RPT-MODE] Repeater Mode

Function: Set the type of repeater function when enabled as a cross band repeater. Requires the KG-Q10H to be in cross-band repeater mode for this to function. See page 100 for more information.

Options: X-DIRPT/X-TWRPT

Default: X-DIRPT

X-DIRPT: The receiving frequency in the Primary Area is the receiving frequency of the cross-band repeater and the transmitting frequency in the Secondary Area is the transmitting frequency.

X-TWRPT: Both Primary and Secondary Areas are recievers, and the area that receives the signal first will serve as the receiving area, while the other area will operate as the transmitting area.

[41: RPT-SPK] Repeater Speaker Setting

Function: When the KG-Q10H is configured as a cross-band repeater, enabling this option will unmute the speaker. This will allow you to hear any cross-band

repeater activity.
Selectable: ON/OFF
Default: OFF

[42: RPT-PTT] Repeater PTT Setting

Function: When the KG-Q10H is configured as a cross-band repeater, enabling this option will allow you to use the radio's Push-To-Talk button to transmit.
Selectable: ON/OFF
Default: OFF

[43: 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

[44: TIME] Time Display

Function: Activates the clock feature. If ON, the current time in 24 hour format ap-

pears in the upper right corner of the display. The time is received from GPS and will only display when GPS is enabled.

Options: ON/OFF
Default: OFF

[45: TIMEZONE] Set Time Zone

Function: Sets the Greenwich Mean Time (GMT) time zone in one hour increments.
Options: GMT/GMT+12 to GMT-12
Default: GMT

[46: FM-RADIO] FM Radio

Function: Save and recall up to 20 FM radio stations to and from memory. Refer to page 52 for more about the FM radio. Accessible only in FM Radio Mode.
Options: RECALL/MEMORY
Default: RECALL

[47: LOCATION] GPS Location Setting

Function: Enables, configures and disables GPS geo-location tracking between two or

more radios that support this feature. Requires Wouxun Q Series radios for this feature to function. Accessing this menu option takes you to a sub-menu with options to activate and configure the following GPS functions. See page 95 for more about using the location features of the KG-Q10H.

GPS Location Sub-Menu

Function: Enables and disables the GPS Location function.
Options: OFF/ON
Default: OFF

SEND-FREQ:

Function: Sets the method or interval with which to send the GPS location data. You can choose to send the data in intervals between every 1 to 10 minutes, in one minute increments. You can also choose to use the PTT to send the location data manually.
Options: OFF/PTT SEND/1-10 MIN
Default: OFF

GPS-RECEIVE:

Function: Enables and disables the receiving GPS location data.
Options: OFF/ON
Default: OFF

DISPLAY-MAP:

Function: Displays the GPS locator Map on the screen with location co-ordinates.
Options: None

[48: 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

How to Set Non-Standard CTCSS

The KG-Q10H supports non-standard CTCSS codes in the range of 65.0-255.0Hz with a minimum spacing of 0.1Hz.

After selecting the CTCSS menu setting (RX-CTCSS or TX-CTCSS), enter the desired CTCSS code via the keyboard and then press [MENU] to confirm.

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

In standby, press [MENU] + [5], the screen will display: RX-CTCSS, press MENU, and input [1] + [0] + [0] + [5], then press [MENU] to confirm, and [EXIT] to return to standby.

How to Set Non-Standard DCS

The KG-Q10H 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 valid non-standard DCS code.

After selecting the DCS menu setting (RX-DCS or TX-DCS), enter the desired DCS code from the keypad, press [#] to select the Positive (N) or Negative (I) code, and then press MENU to confirm.

Example 1: Set the receive DCS as D105N

In standby, press [MENU] + [7] and the screen will display: RX-DCS. Press [MENU] and input [1] + [0] + [5], then press [#] to select the Positive code if needed (DCS codes are set to positive by default). The screen will display D105N. Press [MENU] to confirm, and then press [EXIT] to return to standby.

Example 2: Set the receive DCS as D105I

In standby, press [MENU] + [7] and the screen will display: RX-DCS. Press [MENU] and input [1] + [0] + [5], then press [#] to select the Negative code. The screen will display D105I. Press [MENU] to confirm, and then press [EXIT] to return to standby.

Adding and Removing Channels

The KG-Q10H allows you to add and delete channels directly from the keypad of the

radio using the CH-ADD and CH-DELETE 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 amateur repeater channels. To clone an existing channel:

1. Be sure that your radio is in Channel mode by using the WORK-MODE menu option (page 65).

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

3. Press [MENU] + [1] + [3] to 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.

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-Q10H but outside of the bands allowed for amateur use. To create a new channel:

1. Be sure that your radio is in Frequency mode by using the WORK-MODE menu option (page 65).

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] + [1] + [3] to enter the CH-ADD function.

5. Turn the channel knob or press the [UP] and [DOWN] keys to select an available channel number, then press [MENU] to save it and return to standby mode. Channels that are 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 or type it into the radio from the keypad, press [MENU] + [5] to enter the Receive CTCSS setting, press [UP] / [DOWN] to select the 67.0 tone, and then press [MENU] to confirm.

2. Press [MENU] + [1] + [3] to enter the CH-ADD function, turn the channel knob or press the [UP] and [DOWN] keys to select an available channel, then press [MENU] to save it and return to standby mode.

Note

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

How to Delete a Channel

1. Select the CH-DELETE menu option by pressing [MENU] + [1] + [4], 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.

GPS / Location Function

The KG-Q10H has a location function that utilizes GPS technology. It allows you to send, receive and map geo-location data between two or more Q-Series radios.

The KG-Q10H has multiple menu options related to configuring the location functions.

The LOCATION sub-menu (System Menu page 81) contains GPS-related menu options that apply globally to all channels. Options include: enabling an disabling GPS (GPS), how often coordinate data is transmitted (SEND-FREQ), if incoming trans-

missions should be checked for coordinate data (GPS-RECEIVE), and the option to launch a map displaying relative locations of recently received transmissions (DISPLAY-MAP).

The SEND-LOC menu option (Area Menu page 82) is specific to each channel. This option allows the transmission of coordinate data to be enabled or disabled for individual channels.

GPS coordinate data is not transmitted when the KG-Q10H is in Frequency Mode.

How to Activate the Global Location Functions

Be sure that your radio is in Channel mode by using the WORK-MODE menu option (page 65).

1. Long Press [MENU] + [4] + [7] to enter the LOCATION sub-menu.

2. Press [MENU] + [1] to select the GPS option in the sub-menu and press [MENU]. Turn the channel knob or press the [UP] and [DOWN] keys to select ON, then press [MENU] to save it and return to the LOCATION sub-menu. The GPS pin icon

should appear at the top of the display.

3. While still in the LOCATION sub-menu, press [2] to select the SEND-FREQ option and press [MENU]. Turn the channel knob or press the [UP] and [DOWN] keys to select the desired interval with which to send the GPS location data, then press [MENU] to save it and return to the LOCATION menu. Read page 88 for more information about the SEND-FREQ interval option.

4. While still in the LOCATION sub-menu, press [3] to select the GPS-RECEIVE option and press [MENU]. Turn the channel knob or press the [UP] and [DOWN] keys to select ON, then press [MENU] to save it and return to the LOCATION menu. Read page 89 for more information about the GPS-RECEIVE sub-menu option.

5. Press [EXIT] to go back to the main System Menu and press [EXIT] to return to standby mode.

How to Configure a Channel to Send Location Data

In order for your current location coordinates to be transmitted, the global GPS function must be enabled, the SEND-LOC function must be enabled for the active chan-

nel, and the radio must have a good signal from the GPS satellites. This is indicated by a solid, non-flashing, location icon on the display.

To enable the Send Location function for a channel:

1. Tune to the channel you would like to activate for sending coordinates.

2. Press [MENU] + [1] + [9] to enter the SEND-LOC function.

3. Turn the channel knob or press the [UP] and [DOWN] keys to select ON, then press [MENU] to save it and return to standby mode. The Send Location function should now be active for your channel.

For another Wouxun Q-Series radio to display your location using the Location Map, your radio must also be configured to transmit a Radio ID. Configure your unique Radio ID by using the RADIO-ID system menu option (page 81). Configure the radio to send the Radio ID during a transmit by using the PTT-ID system menu option (page 81).

Note: When GPS is activated, the GPS indicater at the top of the display will begin to

blink to indicate that the radio is attempting to acquire a signal. Also note that there may be a delay while the radio is searching for a signal, and there are many factors that may determine how long it takes to receive one. To ensure the signal is received, the radio must be outdoors and free from major obstructions and unwanted interference. Once a GPS signal is acquired, the indicator will turn solid.

Important!

The GPS option must be ON in the LOCATION sub-menu and SEND-LOC must be ON for the current channel to send location data.

How to Access and Display GPS Location Data

The KG-Q10H can list location coordinates of other Q Series radios and display a map of their locations on the screen. To access and display the GPS data:

1. Long Press [MENU] + [4] + [7] to enter the LOCATION function.

2. Press [MENU] + [4] to select the DISPLAY-MAP option in the sub-menu and press [MENU] to choose it.

The GPS location map will display on the left side screen. The Radio IDs of the previouse 8 contacts be displayed on the right side of the screen, with a map to the left. The KG-Q10H display co-ordinates of the last 8 radios whose locations were received. A numbered location indicator is shown in the map area for each Radio ID.

Use the [UP] and [DOWN] keys or the channel knob to select a Radio ID.

Location status information is shown at the bottom of the display. Use the [#] key to cycle through the various data, including the specific coordinates for the selected Radio ID. The location map is updated in real time as coordinate data is received.

To exit the GPS Locator Map, press the [EXIT] key.

Cross Band Repeat

The KG-Q10H features a cross band repeater. It can be configured either as a directional cross band repeater or a two way cross band repeater.

There are four options in the System Menu related to configuring the cross band repeat function: RPT-MODE (page 85), RPT-SPK (page 85), RPT-PTT (page 86)

and RPT-TONE (page 86).

To set up cross band repeat, long press [MENU] + [4] + [0] to enter the RPT-MODE function in the system menu. There are two options, X-DIRPT and X-TWRPT.

X-DIRPT: The receiving frequency in the Primary Area is the receiving frequency of the cross-band repeater and the transmitting frequency in the Secondary Area is the transmitting frequency.

X-TWRPT: Both Primary and Secondary Areas are recievers, and the area that receives the signal first will serve as the receiving area, while the other area will operate as the transmitting area.

Choose the type of cross band repeater you want and press [MENU] to confirm your choice.

Note: Frequencies for the primary and secondary areas must be on different bands.

The following settings are optional:

If you want to hear cross band activity on the speaker, you can choose whether or not to

unmute it. While still in the system menu, press [4] + [1] to select the RPT-SPK option and press [MENU]. Turn the channel knob or press the [UP] and [DOWN] keys to select ON or OFF, then press [MENU] to save it and return to the system menu.

To transmit with the PTT key while in cross band repeat mode, enable the RPT-PTT function. While still in the system menu, press [4] + [2] to select RPT-PTT and press [MENU]. Turn the channel knob or press the [UP] and [DOWN] keys to select ON or OFF, then press [MENU] to save it and return to the system menu.

To enable or disable the squelch tail sent to the receiving radio at the end of a transmission while in cross band repeat mode, enable the RPT-TONE function. While still in the system menu, press [4] + [3] to select RPT-TONE and press [MENU]. Turn the channel knob or press the [UP] and [DOWN] keys to select ON or OFF, then press [MENU] to save it and return to the system menu.

Press the [RPT] key to activate cross band repeat mode. The repeater icon will appear at the top of the display to indicate the cross-band repeat mode is active.

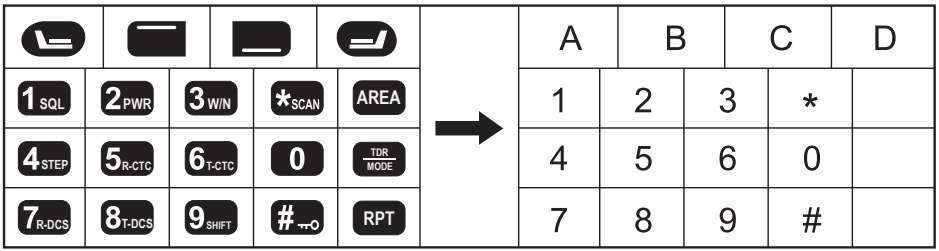
To exit cross band repeat mode, press the [RPT] key.

DTMF Encoding

The KG-Q10H 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-Q10H 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-Q10H 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-Q10H has three system menu options related to configuring the radio ID: PTT-ID (page 81), RADIO-ID (page 81), and ID-DELAY (page 82).

To set a radio ID, long press [MENU] + [3] + [2]. The screen will display: RADIO-ID (page 81). 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] + [3] + [3]. The screen will display: PTT-ID (page 81). 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 82). This delay time can be set to one of 30 levels in 100ms increments.

Calling a specific radio using an ID

The KG-Q10H 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 104) and select either the QT+DTMF or QT*DTMF filter option in MUTE-MODE (page 62).

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 PF key (see Transmitting DTMF Tones on page 106) to send the pre-programmed radio ID that you are calling or enter the radio ID manually using the keypad while holding PTT. Enter the # symbol after the ID when the ID is shorter than six digits.

Once a KG-Q10H 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 82) or in the programming software.

Up to 99 Call ID tones can be assigned using the programming software.

Transmitting DTMF Tones

The KG-Q10H provides a way to send pre-configured DTMF tones via a Push-to-Talk (PTT) key. First, assign a PTT key to the CALL option (page 75). This is available as an option for the [PTT1] or [PTT2] key. The programming software allows the defining of up to 99 Call ID tones. Each channel can be assigned a Call ID tone using the CALL-GROUP area menu item (page 63).

Holding the PTT assigned the CALL key 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-Q10H supports this functionality. Use the ALERT menu option (page 83) 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 [PF2] side key while transmitting.

Remote Control

The Remote Control function allows some settings of the KG-Q10H to be modified remotely. The remote control function must be configured using the PC programming software, and the radio used to control the KG-Q10H remotely must have DTMF support.

Programming Software Settings

Open the Wouxun PC programming software and select the Key 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 81).

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-Q10H 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.
Cannot transmit GPS location	■ Check to be sure GPS is ON and SEND-LOC in enabled for the current channel.

Specifications

Entire Radio	
Frequency Range	TX: 50-54 MHz / 222-225 MHz / 420-450 MHz / 144-148 MHz RX: 50-54 MHz (FM) / 76-108 MHz (FM) 108-136 MHz (Air Ground, AM) 136-174 MHz (FM) / 222-225 MHz (FM) 320-400 MHz (FM) / 400-480 MHz (FM) / 714-999 MHz (FM)
Memory Channels	999
Work Mode	F2D / F3E
Work Temperature	-20°C~+40°C / -22°F~140°F
Frequency Step	2.5 / 5.0 / 6.25 / 8.33 / 10 / 12.5 / 25 / 50 / 100 KHz
Voltage	7.4VDC
Weight	8.40oz / 238g

Receiver	*Wide Band*	*Narrow Band*
Adjacent Channel Selectivity	≤70dB	≤60dB
Inter-modulation	≤65dB	≤60dB
Spurious Response	≤70dB	≤70dB
Audio Response	+1~3dB (0.3~3KHz)	+1~3dB (0.3~3KHz)
Signal to Noise Ratio	≤45db	≤40db
Audio Distortion	≤5%	
Audio Power	≤500mW	

Transmitter	*Wide Band*	*Narrow Band*
Adjacent Channel Power	≥70dB	≥60dB
Spurious	≤-60dBm	≤-60dBm
Audio Response	+3dB (0.3~3KHz)	+3dB (0.3~2.55KHz)
Max Frequency Offset	±5KHz	±2.5KHz
Frequency Stability	±2.5ppm	
Audio Distortion	≤5%	
Output Power (Maximum)	50-54 MHz: up to 6 Watts 144-148 MHz: up to 6 Watts 222-225 MHz: up to 3 Watts 420-450 MHz: up to 6 Watts	

Standard CTCSS and DCS Tones

The following is a list of the standard CTCSS and DCS tones supported by the KG-Q10H. 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

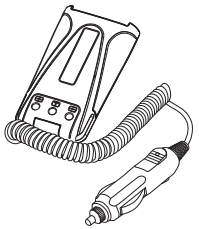
DCS codes ending in *N* are positive. Negative DCS codes end in *I*. The KG-Q10H includes 105 positive and 105 negative codes.

DCS

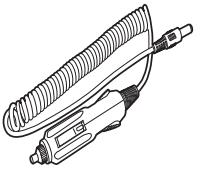
1	D023N	16	D074N	31	D165N	46	D261N	61	D356N	76	D462N	91	D627N
2	D025N	17	D114N	32	D172N	47	D263N	62	D364N	77	D464N	92	D631N
3	D026N	18	D115N	33	D174N	48	D265N	63	D365N	78	D465N	93	D632N
4	D031N	19	D116N	34	D205N	49	D266N	64	D371N	79	D466N	94	D645N
5	D032N	20	D122N	35	D212N	50	D271N	65	D411N	80	D503N	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

NOAA Weather Channels

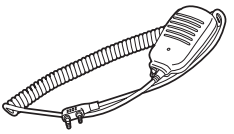
Ch.	Frequency	Ch.	Frequency
1	162.4000	5	162.5000
2	162.4250	6	162.5250
3	162.4500	7	162.5500
4	162.4750		



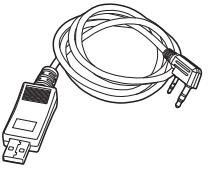
Eliminator



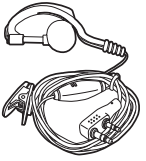
Car charger



Speaker/Mic



USB programming cable



Headset

Shop Wouxun Accessories:

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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-Q10H-2203-V1.0