

## Thank you and congratulations for purchasing this updated, advanced, Emergency HAM Two-Way Radio & Scanner.

The **WOUXUN KG-UV9DX** is a new entry in the famous UV9-Series line, built upon the trusted performance, proven design, and quality manufacturing of the UV9D(Plus) & UV9D Plus+ amateur radios. It has been updated to deliver improved commercial-grade personal hobby, emergency (EmComm), and SHTF/Disaster communications & scanning.

### COMPLIANCE

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### This device complies with PART 15B 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 FEDERAL LAW.**

### FCC REGULATORY CONFORMANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION: Do not transmit without an antenna attached, with a damaged antenna, while touching the antenna, around explosives, or while refueling a vehicle. Operate only with batteries & chargers designed for this radio.**

## MAIN FEATURES

- **5X Display Brightness for Improved Readability Outdoors!**
- **3 New “Dark” Display Modes** • **Priority Channel Quick-Jump**
- **2200 mAh USB-C Battery** (w/ Adapter & 6' Cable) • **Scan Advance**
- **1.25 meter “220 Band” Rx** • **3 Power Levels & U.S. Calibration**
- **999 Memory Channels** • **Brighter LED Flashlight** • **Stiff Knobs**
- **Pre-Programmed for HAM + SHTF (867 Channels)** • **VFO**
- **Emergency RESET** (46 Ch. HAM/GMRS/MURS/NOAA/MMS/AIR/SAR)
- Analog **TDR Superheterodyne** Dual-Band FM • **Duplex Operation**
- **FPP** • **Dual-PTT** • **Cross-Band Repeater** • **BCL** • **VOX**
- **DTMF Keypad** • **Simplex & Repeater Capable** • **Wide & Narrow BW**
- **7-Band Rx w/AM AIR Band & Broadcast FM Radio** w/20 Memories
- **3 Scan Modes** • **10 Scan Groups** • **Priority Scanning**
- **Dual Simultaneous Channel & VFO/Frequency Scanning**
- **Single & Dual-Watch Modes** • **Repeater Reverse & Talk-Around**
- **CTCSS/DCS Search/Scanning** • **Stopwatch** • **2.5 kHz Tuning Steps**
- **155 Split CTCSS/DCS PL Tones/Codes** • **Sub-Receiver Muting**
- **Dual Indicator LEDs** • **Backlight Timer/Dimmer** • **5 Backlight Levels**
- **8-Character Alpha Names** • **3 Programmable Function Side-Keys**
- **Manual & Auto Key/PTT Lock** • **Key Beeps** • **Voice Announce**
- **ANI PTT-ID** • **Time-Out-Timer w/Alert** • **3 Speaker Muting Modes**
- **10 Squelch Levels** • **Squelch Monitor** • **Squelch Tail Eliminator**
- **Battery Saver** • **Battery Voltage Meter** • **8” HAM-Tuned Antenna**

## FEATURE ADDITIONS & IMPROVEMENTS

The following features have been added, modified or improved upon over the original KG-UV9D(Plus) & KG-UV9D Plus+ amateur radios, on which the UV9DX is based.

- **5X Display Brightness:** The UV9DX color TFT display now has 5 times the brightness output (**1000CD**, perceived as at least 2X brighter) for improved readability outdoors or in very bright light. The output can be reduced with **[MENU 27\_ABR-LV | 01-05]** for indoor use.
- **USB-C Charging:** A 2200 mAh USB-C Li-ion battery is included as standard with a USB-C AC Adapter & USB-C charging cable. (Optional 2000 mAh & 3200 mAh batteries available separately.)



## KG-UV9DX HAM

## Two-Way Radio Transceiver & Scanner

FCC PART 15B Certified / 97 Compliant – FCC ID: WVTWOXUN23

### FCC PART 97 WARNING

This device operates on ARS (Amateur Radio Service) frequencies, which require an FCC (Federal Communications Commission) license. You must be licensed prior to transmitting on these frequencies. Serious penalties could result for unlicensed use of ARS frequencies in violation of FCC rules, as stipulated in the Communications Act's Sections 501 and 502 (amended). You will be issued a call sign by the FCC, which should be used for station identification when operating the radio on ARS frequencies. You should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other ARS users, and being prudent with the length of your transmission time. To obtain a license or ask questions about the license application, contact the FCC at 1-888-CALL-FCC or go to the FCC's website: <https://www.fcc.gov> and request form 605.

### STATION ID

Your amateur radio call sign must be transmitted using voice in the English language, or with International Morse Code telegraphy using an audible tone: (a) Following a single transmission or a series of transmissions; and (b) After 10 minutes and at least once every 10 minutes thereafter during a series of transmissions lasting more than 10 minutes.














**CAUTION: To avoid possible damage, avoid operating the radio or transmitting while charging via USB-C port or optional charger base, or when a USB programming cable is inserted (other than for programming).**

**CAUTION: This radio is rated IP55 for dust & “water jets.” Do not submerge or intentionally soak radio with any liquid (or gel).**

**TIP:** For the longest life, remove battery from radio if storing for more than a couple weeks, with a 60% “shelf” charge. Do not store in a powered charger.

- **3 New Dark Display Modes:** Use **[MENU 62\_SCN-MD]** to set 1 of 4 color screen modes with 3 new “dark” backgrounds:
  - **Classic:** Traditional Blue Text on White background.
  - **Cover:** Dark Red on Black background for minimal exposure.
  - **Day 1:** Bright Yellow on Black background for highest contrast.
  - **Day 2:** White on Black background for high contrast.
- **Priority Channel Quick-Jump:** *Long-Press* the **BAND** key to instantly switch to your Priority Channel on the A receiver, even while scanning. The function will halt activity on the A receiver (except while in Function or FM Radio Menus), leaving the FM Radio and B receiver uninterrupted. This is handy for setting an **emergency EmComm** or **CALL Channel** (default), a favorite “home” repeater or channel, **NOAA WX** station, or **Public Safety/Scanner** channel, etc.
- **Scan Advance:** If you encounter an unwanted signal while scanning in **TO/CO** Scan Modes, you can use the **Channel Knob** or **▲▼** keys in either direction to quickly advance/resume scanning (previously had to exit and scan again). See **Scanning** section for more details.
- **1.25 meter HAM “220” Band Rx:** Range now covers **219–250 MHz**.
- **Bright Flashlight:** Includes a brighter LED flashlight with tight beam.
- **Stiff Knobs:** The channel and volume knobs now have additional washers that provide more resistance, to help avoid accidental changes (can be removed for less resistance).
- **3 Power Levels:** **Low = 1 Watts** | **Mid = 2 Watts** | **High = 5 VHF, 4 UHF Watts**. Power levels are now custom calibrated for the U.S. (not Chinese or EU) amateur radio band centers for optimal performance.
- **Pre-Programmed for HAM + SHTF:** The UV9DX now comes pre-programmed with **867 channels**, including HAM FM Calls, many HAM simplex frequencies, loads of general & SHTF receive-only channels such as NOAA Weather stations, GMRS/FRS, MURS, MMS (Marine), AIR (Aviation), AAR (Railroads), SAR, and various national GOV emergency and other agency frequencies (not active in all areas).
- **Emergency RESET ALL:** The radio now defaults to 44 useful SHTF emergency channels after performing a **MENU RESET ALL** function. See the **DEFAULT CHANNEL PROGRAMMING TABLE** (below).

## LCD DISPLAY DATA & ICONS

|          |                                                                                                                                                                        |                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Row 1    |  or <b>TKA</b>                                                                        | Cross-Band Repeater or Talk-Around (Simplex)                         |
|          | <b>VOX</b>                                                                                                                                                             | Voice Operated Transmit Enabled                                      |
|          |                                                                                       | Battery Saver Enabled                                                |
|          |                                                                                       | <b>LOCK</b> Mode Enabled (Keypad, Ch Knob, PTT, ALL)                 |
|          |                                                                                       | Battery Charge Level (100% shown)                                    |
| Row 2    |                                                                                       | <b>Priority Scanning</b> On (flashes after recent signal)            |
|          | <b>FM</b>  or "MSG"                                                                   | <b>FM Radio</b> On or Muted/Freq. or Personal Message                |
| A/B Rec. |  or  | Receiver On or Muted                                                 |
| Top      | <b>QT</b> or <b>DT</b>                                                                                                                                                 | <b>Rx CTCSS</b> or <b>DCS</b> Enabled (or <b>Tx</b> during transmit) |
| Row      |                                                                                       | DTMF Encoding/Decoding Enabled                                       |
|          | <b>W</b> or <b>N</b>                                                                                                                                                   | <b>Wide</b> or <b>Narrow</b> Modulation Bandwidth                    |
|          | <b>+</b> or <b>-</b>                                                                                                                                                   | Positive or Negative Repeater <b>Tx Offset Direction</b>             |
|          | <b>R</b>                                                                                                                                                               | <b>Repeater Reverse</b> Enabled (Swaps Rx/Tx Freqs)                  |
|          |                                                                                       | <b>Priority Channel</b>                                              |
|          |                                                                                       | Most Recently Received <b>Call</b> (signal or select call)           |
|          |                                                                                       | Currently Selected <b>MAIN</b> Receiver/Transmitter                  |
| A/B Rec. | <b>2m CALL</b> 201                                                                                                                                                     | Channel Name + Channel # ( <b>NAME</b> Display Mode)                 |
| Center   | <b>146.52000</b>                                                                                                                                                       | Frequency ( <b>FREQ-VFO</b> Display Mode, in MHz)                    |
| Row      | <b>CH-201</b> 201                                                                                                                                                      | Memory Channel # + Channel # ( <b>CH</b> Display Mode)               |
|          | <b>146.52000</b> 201                                                                                                                                                   | Frequency + Channel # ( <b>CHFREQ</b> Display Mode)                  |
|          | <b>7.40V</b>                                                                                                                                                           | <b>Battery Voltage</b> Level (DC Volts) <b>MENU VOLTAGE</b>          |
|          | <b>BCL</b>                                                                                                                                                             | Busy Channel / Tx Inhibit when <b>BCL</b> Enabled                    |
|          | <b>FRQ OVER</b>                                                                                                                                                        | Tx frequency is blank or outside of avail. Tx range                  |
|          | <b>00. 00. 00</b>                                                                                                                                                      | <b>SECOND</b> (Stopwatch) Time (in HH. MM. SS)                       |
|          | [FUNCTION/VALUE]                                                                                                                                                       | Various <b>MENU</b> Functions or Settings/Values                     |
| A/B Rec. | <b>H</b> or <b>M</b> or <b>L</b>                                                                                                                                       | High, Middle or Low <b>Tx Power</b>                                  |
| Bottom   |                                                                                      | <b>Rx</b> (Signal) S-Meter or <b>Tx Power</b> (during transmit)      |
| Row      | <b>AM</b>                                                                                                                                                              | Amplitude Modulation Enabled (FM mode when off)                      |

## BASIC OPERATION

**Key Presses:** The **PF2** & **PF3** side-keys and several front panel keypad keys allow short and long presses (see below) to access primary and secondary functions (such as **\*-SCAN** for the **Repeater Reverse/Scan** functions – see the **Programmable Function Keys** & **Keypad Shortcuts** sections above).

A quick momentary press or “**Short-Press**” (**SP**) activates the primary key function. A “**Long-Press**” (**LP**) involves holding down a key for about 1–2 seconds to activate the secondary key function.

**Function Menu:** Press the **MENU** key to enter the Function Menu. Use the **Channel Knob**, **▲▼** or **1–9** keys to select a function. Press **MENU** again to Edit the selected function. Use the same controls to select or enter a value, then press **MENU** again to write any changes. Press **EXIT** at any time to exit the function Menu or to abort the current Menu operation without saving changes for the currently selected function, or wait for the **MENU** to time-out (about 10 sec.).

**Display Modes:** Long-Press **TDR|V/M** to cycle through all 4 Display Modes:

- **NAME** (default): Displays the stored Name (if any) for the current memory channel, with the channel # to the right (in small text).
- **FREQ-VFO** (Variable Frequency Oscillator): For direct frequency tuning/input, scanning frequencies, or programming new channels. Acts like a traditional “digital” radio tuner.
- **CH:** Displays the Number for the current memory channel, with the channel # to the right (in small text).
- **CHFREQ:** Displays the frequency stored for the current memory channel, with the channel # to the right (in small text).

**TIP:** You can hold down the **▲▼** keys or use the **Channel Knob** to quickly scroll through channels, frequencies, or **MENU** functions/values.

**TIP:** You can use the **EXIT** key as a backspace key while entering a frequency in the **FREQ-VFO** Display Mode.

## RADIO CONTROLS & INDICATORS

- Speaker/Mic **Audio & Programming** Jacks
- **On/Off/Volume** Knob
- **Rx Green Signal & Tx Red Transmit** LED Indicators
- **Channel Knob** (bi-directional; continuous)
- **Flashlight LED “LAMP”**
- **SMA-Female Antenna Connector**

## PROGRAMMABLE FUNCTION KEYS

Default PF Side Key Assignments:

- **PF1 LP: Sub-Rec. PTT** (Transmit - mom.)
- **PTT LP: MAIN Tx** (Transmit - mom.)
- **PF2 SP: FM Radio** (On/Off)
- **PF2 LP: Flashlight/Torch** (On/Off)
- **PF3 SP: Monitor** (Open/Close Squelch)
- **PF3 LP: Stopwatch** (LP: Start/ SP: Stop/SP: Off-Reset)

## KEYPAD SHORTCUTS

- **BAND SP:** Toggle Active **MAIN** Receiver | **LP: Priority Channel Quick-Jump**
- **TDR|V/M** Display Modes  
**SP: Single/True Dual Receive**  
**LP: FREQ-VFO/CH/CHFREQ/NAME**
- **MENU:** Access Radio Functions/Settings | Press again to **Edit**, then again to **Save**
- **EXIT:** Exit Menu or Cancel Scanning
- **1–9: Freq/Chan Entry** | **FM Radio Memories** | **Menu Function Shortcuts**
- **\*-SCAN SP: Repeater Reverse** | **LP: Start Scan Mode**
- **#-LOCK SP: IN FRQ/SAVE/CALL (FM Radio)** | **LP: LOCK**
- **▲▼ SP/LP: Next/Prev. Channel/Function/Value/Scan Direction**
- **RPT SP: Change Band** (in VFO) | **LP: Talk-Around/Direct** (simplex)



**Receiving (Rx):** Turn the radio on by rotating the **On/Off/Volume Knob** clockwise. Use the **Channel Knob**, **▲▼** or **1–9** keys to select the desired channel. Adjust the **Volume Knob** as desired.

- **Main:** Toggle the active **MAIN** receiver with the **BAND** key.
- **Single/True Dual Receive:** Toggle **Single** or **True Dual Receive** Modes with the **TDR|V/M** key.
- **Sub-Receiver Muting:** You can choose if you want audio on the Sub-Receiver (opposite of **MAIN**) muted (while in **TDR** mode) when a signal is received (even while scanning), or when you transmit on the **MAIN** receiver, or both. Use [**MENU 60\_S-MUTE** | **OFF, RX-MUTE, TX-MUTE, R/T-MUTE**] to toggle.
- **Rx CTCSS:** Set **CTCSS** tones or **DCS** codes (sometimes referred to as “PL Tones” or “Privacy/Quiet Tones”) with [**MENU 16\_Rx-CTC**] or [**MENU 18\_Rx-DCS**] to mute the receiver unless a signal includes the specified tone/code. Setting one Rx type will remove the other.
- **SQUELCH:** Set with [**MENU 08\_SQL-LE** | **0–9**] to mute the speaker for background noise or signals below the certain level. A squelch level of 5 or 6 is usually a good starting point.

**Note:** The top A Receiver can tune/scan all 7 bands available. The B Receiver covers only the normal dual-band “UV” range: 136–174.9975 MHz & 400–512.9975 MHz.

**Transmitting (Tx):** Choose the desired channel or frequency. **SP PF3 Monitor** to confirm channel is not in use, then again to mute.

Hold the radio upright/vertical a few inches from your mouth with the display facing you or at a slight angle.

Press & hold the **PTT** key, pause for about one second, then speak at a normal, consistent volume. Release the **PTT** key to stop transmitting. The radio will immediately return to receiving.

- **Tx CTCSS:** Set **CTCSS** tones or **DCS** codes with [**MENU 17\_Tx-CTC**] or [**MENU 19\_Tx-DCS**] to transmit a sub-audible tone/code with your signal to other stations, or to access repeater stations. Setting one Tx type will remove the other.

## Transmitting (Tx) (continued):

- **Roger Beep:** Set to transmit a tone at the beginning or end of your transmission (or both) with [MENU 15\_ROGER]. The EOT (End Of Tx) setting is most commonly used so other stations know when your transmission is over, instead of saying "OVER." It's not often used on the Ham bands and typically discouraged on repeaters.
- **Busy Channel Lockout:** Avoid accidentally transmitting when there's an active signal detected (useful when Rx CTCSS or DCS is set) with [MENU 18\_BCL].
- **Cross-Band Repeater:** See original KG-UV9P PDF manual at BSR.

**Broadcast FM Radio:** The Commercial **FM Radio** feature tunes from 76 to 108 MHz in 100 kHz steps. It offers an VFO Mode (**IN FRQ**) with **SE** Search Scanning, Memory **SAVE**, and Memory re**CALL** functions with 20 dedicated memories. When operating the **FM Radio**, the **MAIN** & Sub-Receiver (if in **TDR** Mode) will be "watching" for active signals and will mute the **FM Radio** and play the **MAIN** or Sub-Receiver signal audio instead. When the signal ceases, the **UV9DX** will resume playing the current **FM Radio** station, until the feature is turned off.

- Enter the **FM Radio** feature with **SP PF2**. Do the same to exit.
- Toggle between **IN FRQ/SAVE/CALL** modes with **SP #-LOCK**.
- Press the **\*-SCAN** key to scan for an active **FM Radio** station.
- Use the **1-9** keys or **Channel Knob** to enter/select a frequency or memory channel in **IN FRQ/CALL** modes, then press the **MENU** key to commit the entry/selection.

**Scanning:** To start scanning memory channels or frequencies on the current **MAIN** receiver, use **LP \*-SCAN** key, or optionally assign "SCN" to a **PF Side Key**. See the three **Scan Review** Modes to the right.

To start scanning on the other receiver, press the **BAND** key to switch the **MAIN** receiver, then **LP \*-SCAN** key. Use [MENU 60] to control Sub-Receiver Muting and **BAND** key to select primary (**MAIN**) receiver.

To exit **Scanning** on an active channel/frequency, switch to the desired **MAIN** receiver with **SP BAND** key, then press any other key (other than **▲▼** and **BAND**), such as **EXIT**, **0-9**, or **\*-SCAN**.

**Adding New or Copying Existing Memory Channels:** You can add new or copy existing simplex or repeater Tx/Rx channels, or add Rx-Only Scanner channels to any memory with the keypad, as desired.

- **Add New Simplex, Repeater or Scanner Channels:**
  - Switch to the **FREQ-VFO** Display Mode (see above).
  - Use the **Channel Knob**, **▲▼** or **1-9** keys to select/enter the desired frequency (radio will auto-complete trailing zeros).
  - Set any other desired parameters in the **Function Menu**.
  - Write the VFO to a channel with [MENU 30\_MEM-CH | 001-999]. New/unused channels are indicated in an alternate color. (See **Basic Operation – Function Menu** instructions.)
- **Copy Existing Simplex/Repeater/Scanner Channels:**
  - Switch to the **CH**, **CHFREQ** or **NAME** Display Mode.
  - Use the **Channel Knob**, **▲▼** or **1-9** keys to select/enter the desired channel to copy.
  - Write the channel to a new memory with [MENU 30\_MEM-CH]. New/unused channels are indicated in an alternate color. Repeater settings will be retained, including the Offset Freq. & Direction. You can rename the new channel (see below).
- Switch to **CH**, **CHFREQ** or **NAME** Display Mode and use the **Function Menu** to set any desired parameters, such as **W/N**, **TXP**, **SFT-D**, **BCL**, **Rx-CTC/DCS**, **Tx-CTC/DCS**, **CH-NAME**, or **SCAN-ADD**, etc., to customize the new or copied memory channel.
- While setting a **Channel Name** with [MENU 29\_CH-NAME], use the **Channel Knob**, **▲▼** or **1-9** keys to select/enter a character/number, **#-LOCK** to accept and move forward, and **EXIT** to move back. When done, press **MENU** to write the new name, or **LP EXIT** to abort without writing. You can use up to 8 characters.

**Note:** Some Menu Functions can only be set in specific Display Modes: **SCN-ADD** & **CH-NAME** are only available in the **NAME**, **CH** & **CHFREQ** Modes, and **SFT-D** & **OFFSET** are only available in the **FREQ-VFO** Mode (indicated in **Function Menu Options** table below).

The **UV9DX** offers single or dual receiver scanning of all 999 memory channels with three available **Scan Review** Modes set independently for each receiver via [MENU 20\_SC-REV | TO/CO/SE].

- **TO Timer Scan Review** Mode: Scans until a signal is received, pauses for 5 seconds to preview audio, then resumes scanning.
- **CO Carrier Scan Review** Mode: Scans until a signal (carrier) is received, pauses until it ceases, then resumes scanning if no new signal is detected within 3 seconds.
- **SE Search Scan Review** Mode: Scans (searches) for the first signal that "opens" the set squelch level, then exits **Scanning**, remaining on the current channel or frequency.
- **Scan Group:** Set the active Scan Group (10 avail., defined in **CPS**) independently for each receiver. Use **SP BAND** to select the desired **MAIN** receiver, then set with [MENU 49\_SCN-GP | 01-10].
- **Scan Advance:** If you encounter an unwanted signal while scanning in the **TO** or **CO** Scan Modes, use the **Channel Knob** or **▲▼** keys to instantly advance/resume scanning in either direction.
- **Priority Scan:** When "ON" [MENU 33\_PRI-SCN], checks Priority Channel [MENU 32\_PRI-CH] for a signal every 1-2 seconds on the **MAIN** receiver, when not in regular Scanning Mode on that receiver.

## PROGRAMMING VIA COMPUTER

You can program channel data and most radio menu settings on your **UV9DX** via computer with the free **WOXUN** Customer Programming Software (**CPS**) and the "Red" PCO-009 USB Programming Cable (sold separately at BSR) & free USB driver software, available at [BetterSafeRadio.com/UV9DX](http://BetterSafeRadio.com/UV9DX).

For more advanced editing features, the **RT Systems** UV9D Advanced Programming Software & USB Cable Kit (sold separately at BSR) can be used instead (excluding the Dark Display Modes).

Or use the free open-source **CHIRP** programming software (search for "CHIRP my radio" on the web), including to customize the "**BetterSafeRadio**" Personal Display Message (16 char. max.) or to unlock the radio's Tx range for **MARS/CAP/Emergency** use only, etc.

## DEFAULT CHANNEL PROGRAMMING TABLE

The following 44 emergency SHTF channels are restored after performing a **MENU RESET ALL** function [MENU 61\_RESET | ALL].

| Ch  | Name     | Rx Freq. | Tx Freq. | Ch  | Name     | Rx Freq. | Tx Freq. |
|-----|----------|----------|----------|-----|----------|----------|----------|
| 001 | 2m CALL  | 146.520  | 146.520  | 052 | MURS 2 S | 151.880  | Rx Only  |
| 002 | 70cmCALL | 446.000  | 446.000  | 053 | MURS 3 E | 151.940  | Rx Only  |
| 003 | 220 CALL | 223.500  | Rx Only  | 055 | MURS 5 G | 154.600  | Rx Only  |
| 004 | 33cmCALL | 906.500  | Rx Only  | 062 | GMF 02 S | 426.5875 | Rx Only  |
| 011 | H2 S5.55 | 145.555  | 145.555  | 063 | GMF 03 E | 462.6125 | Rx Only  |
| 012 | H2 P6.42 | 146.420  | 146.420  | 065 | GMF 15 C | 462.550  | Rx Only  |
| 013 | H2 S6.53 | 146.535  | 146.535  | 066 | GMF 16 O | 462.575  | Rx Only  |
| 014 | H2 W6.55 | 146.550  | 146.550  | 067 | GMF 17 E | 462.600  | Rx Only  |
| 015 | H2 T6.56 | 146.565  | 146.565  | 069 | GMF 19 H | 462.650  | Rx Only  |
| 018 | ISS Vox  | 145.800  | 144.490  | 070 | GMF 20 T | 462.675  | Rx Only  |
| 019 | ISS Rpt  | 437.800  | 145.990  | 981 | NOAA WX1 | 162.550  | Rx Only  |
| 021 | 220 3.42 | 223.420  | Rx Only  | 982 | NOAA WX2 | 162.400  | Rx Only  |
| 022 | 220 3.52 | 223.520  | Rx Only  | 983 | NOAA WX3 | 162.475  | Rx Only  |
| 031 | 33cm 2.5 | 902.500  | Rx Only  | 984 | NOAA WX4 | 162.425  | Rx Only  |
| 032 | 33cm 7.1 | 927.100  | Rx Only  | 985 | NOAA WX5 | 162.450  | Rx Only  |
| 033 | 33cm 7.5 | 927.500  | Rx Only  | 986 | NOAA WX6 | 162.500  | Rx Only  |
| 039 | APRS     | 144.390  | Rx Only  | 987 | NOAA WX7 | 162.525  | Rx Only  |
| 041 | H4 S1.10 | 441.100  | 441.100  | 988 | NOAA WX8 | 161.650  | Rx Only  |
| 042 | H4 P6.03 | 446.030  | 446.030  | 989 | NOAA WX9 | 161.775  | Rx Only  |
| 043 | H4 S6.10 | 446.100  | 446.100  | 991 | MMS 16EM | 156.800  | Rx Only  |
| 044 | H4 S6.42 | 446.420  | 446.420  | 992 | AIR EM   | 121.500  | Rx Only  |
| 051 | MURS 1 C | 151.820  | Rx Only  | 993 | SAR EMT  | 155.160  | Rx Only  |

**C** = CALL   **H2** = 2m HAM   **S** = Simplex (Safety on MURS/GMRS)   **E/P** = Prepper  
**W** = WeatherChasers   **T** = T-Hunt (Travel on GMRS)   **ISS** = Intl. Space Station  
**H4** = 70cm HAM   **EM** = Emergency   **O** = Off-Road   **H** = Highway/Road  
**NOAA** = Natl. Weather Serv.   **MMS** = Maritime Marine   **AIR** = Aviation (AM)  
**SAR EMT** = Search & Rescue / Emergency Medical Technicians

### Function Menu Options & Descriptions 01–17

|    |                                                    |                                                                                                                             |
|----|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 01 | <b>ABR:s</b><br>Auto Backlight Timer               | <b>OFF   1S–30S   ALWAYS ON  </b> (in seconds)<br>Duration LCD backlight remains on after any activity.                     |
| 02 | <b>SAVE</b><br>Battery Power Saver                 | <b>OFF   1–4</b> (1=2:4, 2=2:6, 3=2:8, 4=3:9 – in 100mS)<br>Receiver duty-cycling to save battery life. Set #4 in software. |
| 03 | <b>STEP</b><br>Tuning Step                         | <b>2.5K   5K   6.25K   8   10K   12.5K   20K   25K   30K   50K   100K</b><br>Tuning step for FREQ-VFO Display Mode in kHz.  |
| 04 | <b>W/N</b><br>Modulation Bandwidth                 | <b>WIDE   NARR</b> (16 kHz   11 kHz)<br>Rx/Tx modulation bandwidth for 25k / 12.5k channels.                                |
| 05 | <b>TXP</b><br>Transmit Power                       | <b>LOW   MIDDLE   HIGH</b> (1 Watts   2 Watts   4–5 Watts)<br>RF output power level for Tx (transmit).                      |
| 06 | <b>SFT-D</b> (VFO mode only)<br>Tx Shift Direction | <b>OFF   +   –</b> (only in FREQ-VFO Mode)<br>Tx frequency offset direction for repeater operation.                         |
| 07 | <b>VOX</b><br>Voice-Operated Transmit              | <b>OFF   01–10</b> (01 is highest sensitivity)<br>Sensitivity for automatic Tx based on microphone voice level.             |
| 08 | <b>SQL-LE</b><br>Squelch                           | <b>0–09</b> (0 = OFF/OPEN)<br>Signal strength threshold for squelch speaker muting.                                         |
| 09 | <b>ROGER</b><br>Roger Beep                         | <b>OFF   BOT   EOT   BOTH</b> (B = Beginning, E = End Of Tx)<br>Courtesy “OVER” tone during Tx. Discouraged on repeaters.   |
| 10 | <b>TOT:s</b><br>Time-Out Timer                     | <b>15S–180S</b> (in 15 second increments)<br>Timer for automatic Tx shutoff to protect transmitter.                         |
| 11 | <b>TOA:s</b><br>Time-Out Timer Alarm               | <b>OFF   01S–10S</b> (in seconds)<br>LED warning flashing time before TOT expires.                                          |
| 12 | <b>VOICE-SW</b><br>Voice Announce/Prompt           | <b>OFF   ON</b><br>Voice announcements/prompts.                                                                             |
| 13 | <b>BEEP</b><br>Key Beep                            | <b>ON   OFF</b><br>Audible keypad & function key confirmation tone.                                                         |
| 14 | <b>MENULANGE</b><br>Menu Language                  | <b>Disabled. Always set to ENGLISH.</b>                                                                                     |
| 15 | <b>BCL</b><br>Busy Channel Lockout                 | <b>OFF   ON</b><br>Tx inhibit when active signal detected on channel/freq.                                                  |
| 16 | <b>Rx-CTC</b><br>Cont. Tone-Coded Squelch          | <b>OFF   67.0Hz–254.1Hz</b> (or non-standard values via keypad)<br>Rx CTCSS “PL/Quiet Tone” decoding for speaker muting.    |
| 17 | <b>Tx-CTC</b><br>Cont. Tone-Coded Squelch          | <b>OFF   67.0Hz–254.1Hz</b> (or non-standard values via keypad)<br>Tx CTCSS “PL/Quiet Tone” encoding during transmit.       |

### Function Menu Options & Descriptions 34–53

|    |                                                   |                                                                                                                                    |
|----|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 34 | <b>AUTOLOCK</b><br>Auto-Lock                      | <b>OFF   ON</b><br>Enables LOCK mode after 15 seconds of no activity.                                                              |
| 35 | <b>LOCKMODE</b><br>Lock Mode                      | <b>KEY-LK   KEY+PG   KEY+PTT   ALL</b><br>Keypad + PF keys, or + Ch. Knob, or + PTT (Rx-only), or all.                             |
| 36 | <b>S-TONE</b><br>Single-Tone Tx “Tone-Burst”      | <b>1000H   1450H   1750H   12100H</b> (in Hz, press PF3 while Tx)<br>Frequency of Single-Tone Tx (for repeater access).            |
| 37 | <b>VOX-DLY:s</b><br>VOX Transmit Delay            | <b>OFF   01S–05S</b> (in seconds)<br>Duration Tx continues after microphone audio/voice stops.                                     |
| 38 | <b>SC-QT</b><br>Save Coded Quiet Tone             | <b>R-QT   T-QT   R&amp;T-QT</b> (Rx–CTC/DCS   TX   Both)<br>Where found CTC/DCS tone is saved after <b>SCN-CD</b> search.          |
| 39 | <b>APO-TMR</b><br>Auto-Power-Off Timer            | <b>OFF   15M–150M</b> (in 15 minute increment)<br>Timer for auto power off if no keypad or channel knob use.                       |
| 40 | <b>PONMSG</b><br>Power-On Message                 | <b>BATTY   BITMAP</b> (BITMAP only active if factory image set)<br>Battery DC Volts or custom image during radio power-up.         |
| 41 | <b>BLCDSW</b><br>Backlight LCD Switch             | <b>OFF   ON</b><br>Dims LCD backlight instead of turning off completely.                                                           |
| 42 | <b>BLEDSW</b><br>Backlight LED Switch             | <b>OFF   ON</b><br>Flashes status LED when LCD is off to indicate radio is on.                                                     |
| -- | <b>MENU 43–47</b>                                 | <b>See KG-UV9P PDF manual for Cross-Band Repeater use.</b>                                                                         |
| 48 | <b>SCN-ADD</b> (ch mode only)<br>Scan Add Channel | <b>OFF   ON</b><br>Disable or enable scanning of currently selected channel.                                                       |
| 49 | <b>SCN-GP</b><br>Scan Group                       | <b>01:name – 10:name   ALL</b> (Scan Groups set via software)<br>Set active Scan Group, or all channels, for each receiver.        |
| 50 | <b>SCN-MODE</b><br>Scan Range Mode                | <b>ALL   Cur Region   Lmt Frq</b> (Limit Freqs. set via software)<br>Limit FREQ-VFO scanning to all, current band, or limit freqs. |
| 51 | <b>SCN-CD</b><br>Scan CTCSS/DCS                   | <b>CTCSS   DCS</b> (Use <b>Ch. Knob</b> or <b>▲▼</b> to change scan dir.)<br>Scan for CTCSS or DCS tone/code on active signals.    |
| 52 | <b>CALL ID</b><br>Select Call ID                  | <b>01:name – 20:name</b> (Call ID Group Names set via software)<br>Select Calling ID (Group) to Tx (if CALL enabled on a PF key).  |
| 53 | <b>AUTO-AM</b><br>Auto-AM Receiver Mode           | <b>OFF   ON</b> (Activates AM Mode when AM signal detected)<br>Disable or enable automatic AM Mode detection switch.               |

### Function Menu Options & Descriptions 18–33

|    |                                                       |                                                                                                                                                                                   |
|----|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 | <b>Rx-DCS</b><br>Digital-Coded Squelch                | <b>OFF   D023N/I-D754N/I</b> (Press # to toggle DCS polarity)<br>Rx (receive) DCS “DPL” decoding for speaker muting.                                                              |
| 19 | <b>Tx-DCS</b><br>Digital-Coded Squelch                | <b>OFF   D023N/I-D754N/I</b> (Press # to toggle DCS polarity)<br>Tx DCS “DPL” encoding during transmit.                                                                           |
| 20 | <b>SC-REV</b><br>Scan Review                          | <b>TO   CO   SE</b> (Timer   Carrier   Search)<br>Signal detection/monitor behavior while scanning.                                                                               |
| 21 | <b>SP-MUTE</b><br>Speaker Muting                      | <b>QT   QT*DT   QT&amp;DT</b> (Quiet Tone   QT or ANI   QT & ANI)<br>Require Quiet Tone and/or ANI-ID to unmute speaker.                                                          |
| 22 | <b>DTMF-ST</b><br>DTMF & ANI Side-Tones               | <b>OFF   DT-ST   ANI-ST   DT+ANI</b> (DTMF   ANI-ID   Both)<br>Enable hearing DTMF keypad and/or ANI-ID tones during Tx.                                                          |
| 23 | <b>PTT-ID</b><br>Transmit Unit ID #                   | <b>OFF   BOT   EOT   BOTH</b> (B = Beginning, E = End)<br>Send your ANI-ID (Unit #) during Tx with PTT (Push-To-Talk).                                                            |
| 24 | <b>ID-EDIT</b><br>Unit Identification                 | <b>0–9</b> (ANI-ID up to 6 digits, 3-digit min., use keypad to enter)<br>Automatic Number Identification (Unit #) for Selective Calling.                                          |
| 25 | <b>ID-DLY:ms</b><br>Identification Tx Delay           | <b>100MS–3000MS</b> (in milliseconds)<br>Delay before ANI-ID is sent after Tx starts, with PTT-ID.                                                                                |
| 26 | <b>RING:s</b><br>Incoming Select Call Ringer          | <b>OFF   01S–10S</b> (in seconds)<br>Duration of audible ringer before voice, when Rx ANI-ID.                                                                                     |
| 27 | <b>ABR-LV</b><br>Automatic Backlight Level            | <b>01–05</b> (05 is highest brightness)<br>Brightness for automatic LCD backlight.                                                                                                |
| 28 | <b>OFFSET</b> (VFO mode only)<br>Tx Offset Frequency  | <b>0–999.99750</b> (in MHz, Ex. 000.60000 (only FREQ-VFO Mode))<br>Tx offset freq. for repeater operation.                                                                        |
| 29 | <b>CH-NAME</b> (ch mode only)<br>Channel Alpha-8 Name | <b>! " # \$ % &amp; ' ( ) * + , - / 0-9 ; : &lt; = &gt; ? @ A-Z [ \ ] ^ _ ` a-z {   } ~</b><br>Enter up to 8 char., <b>#-LOCK</b> =right, <b>EXIT</b> =left, <b>LP EXIT</b> =exit |
| 30 | <b>MEM-CH</b><br>Save Memory Channel                  | <b>001–999</b> (3 digits, <b>MENU</b> =write, <b>EXIT</b> =cancel)<br>Write current settings to any used/unused memory channel.                                                   |
| 31 | <b>DEL-CH</b><br>Delete Memory Channel                | <b>001–999</b> (3 digits, <b>MENU</b> =erase, <b>EXIT</b> =cancel)<br>Erase any used memory channel.                                                                              |
| 32 | <b>PRI-CH</b><br>Priority Channel                     | <b>001–999</b> (3 digits, <b>MENU</b> =set, <b>EXIT</b> =cancel)<br>Set any used memory channel as the Priority Channel.                                                          |
| 33 | <b>PRI-SCN</b><br>Priority Channel Scan               | <b>ON   OFF</b><br>Enable Priority Scanning (of the Priority Channel in standby).                                                                                                 |

### Function Menu Options & Descriptions 54–62

|    |                                                 |                                                                                                                                                                                                          |
|----|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 54 | <b>AM-SW</b><br>AM Receive Mode Switch          | <b>OFF   ON</b> (OFF = Normal FM Mode Rx)<br>Disable or enable AM Mode Rx on current memory channel.                                                                                                     |
| 55 | <b>PF1-DEF SP</b><br>Prog. Function Key 1 Short | <b>OFF   CALLID   R-ALARM SOS   SF-TX</b> ( <i>italic</i> is default)<br>CALLID: Tx Group ID Call<br>R-ALARM: Tx Remote Siren<br>SOS: Local Emergency Siren<br>SF-TX: Alternate Rec. PTT                 |
| 56 | <b>PF2-DEF LP</b><br>Prog. Function Key 2 Long  | <b>OFF   SCN   SECOND LAMP   SDF-DIR K-LAMP</b><br>SCN: Toggle Scan Mode<br>SECOND: Toggle Stopwatch<br>LAMP: Toggle Flashlight<br>SDF-DIR: Toggle Offset Dir.<br>K-LAMP: Toggle Backlight               |
| 57 | <b>PF3-DEF LP</b><br>Prog. Function Key 3 Long  | <b>OFF   CALLID   R-ALARM SOS   SF-TX   SCN SECOND   LAMP</b><br>SCN: Toggle Scan Mode<br>SECOND: Toggle Stopwatch<br>LAMP: Toggle Flashlight<br>SDF-DIR: Toggle Offset Dir.<br>K-LAMP: Toggle Backlight |
| 58 | <b>VOLTAGE</b><br>Battery DC Volts              | <b>SHOW   HIDE</b><br>Press MENU to show (for 12 sec.) or hide battery voltage.                                                                                                                          |
| 59 | <b>QT-SW</b><br>Quiet Tone Scan Switch          | <b>OFF   ON</b> (ON uses CTC/DCS stored in each channel)<br>Enable CTCSS/DCS speaker muting while scanning.                                                                                              |
| 60 | <b>S-MUTE</b><br>Sub-Receiver Mute Mode         | <b>OFF   RX-MUTE   TX-MUTE   R/T-MUTE</b><br>Mute alternate receiver during Rx, Tx, or both, on <b>MAIN</b> rec.                                                                                         |
| 61 | <b>RESET</b><br>Name                            | <b>VFO   ALL</b> (Menu Functions   Menu & Memories – <b>BEWARE!</b> )<br><b>ALL</b> restores radio to 44-channel Emergency configuration.                                                                |
| 62 | <b>SCN-MD</b><br>Color Screen Mode              | <b>Classic   Covert   Day 1   Day 2</b><br>Set color Screen Modes. Radio will power-cycle on change.                                                                                                     |

Visit [BetterSafeRadio.com/UV9DX](http://BetterSafeRadio.com/UV9DX) for more information or support, to download a printable PDF version of this manual or the original pre-programmed HAM SHTF Channel Table, the original KG-UV9P manual (for advanced features), or the free **WOJXUN** Customer Programming Software (CPS) and USB Programming Cable software drivers, to purchase a host of useful accessories such as a high-gain tuned *Smiley Antenna* to extend your operating range, or to post a gear review & provide constructive feedback, which are always appreciated. Thanks & Be Safe!

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