

# Glossario Funzioni del MENU :

2016 - **IW2BSF** Rodolfo Parisio

**SQL** [SQUELCH] (**cons. 5**): imposta la sensibilita al segnale in ricezione, lo squelch mette in muto la radio fino alla ricezione di un segnale utile. Si consiglia a 5 per un risparmio efficace di batteria, ma va continuamente monitorato per evitare che la radio resti muta anche quando non dovrebbe a causa di canale troppo disturbato. Meglio su 1 per farlo diventare piu sensibile, se ricevete solo segnali MOLTO forti potete metterlo anche sul 9 ! Con le nuove radio e' possibile tramite sw Chirp modificare i valori delle soglie dello Squelch !

**STEP**, passi di frequenza: 0 2.5, 1 5, 2 6.25, 3 10, 4 12.5, 5, 25 KHz

**TXP**, seleziona la Potenza in TX : 0 high, 1 low

**SAVE**, battery save: **0 off**, 1 1:1, 2 1:2, 3 1:3, 4 1:4 allunga la durata della batteria!

**BEEP**, beep dei tasti : 0 off, 1 on

**VOICE**, voice prompt: **0 off**, 1 on (vecchie versioni), 0 off, 1 inglese, 2 Cinese (nuove versioni) la voce quando premete I tasti .

**VOX** [VOICE OPERATED TRANSMISSION] (**cons. OFF**): imposta la sensibilita per l'apertura automatica del canale in trasmissione (TX) quando l'operatore parla. Sconsigliato in ambienti con svariate sollecitazioni e/o rumori discontinui.

**W/N** [Wide Band / Narrow Band] (**cons. Wide**): da impostare su Narrow per aree in cui i segnali

in RF (radio frequenza) sono saturi (saturi=con molte interferenze e/o rumore) per evitare sovrapposizioni di canali ( 5 KHz OM ). **0 wide**, 1 narrow

**TDR** [Dual Watch / Dual Reception] (**cons. ON**): fa in modo di scansionare le due frequenze operative impostate sul display A e B a intervalli regolari per verificare se ci sono trasmissioni in atto e, se trovata una trasmissione, **rimane in ascolto su quel canale fino al termine della trasmissione**. E' quindi un "finto" bi-banda alterna in rx I due ricevitori , ma quando c'e un segnale su uno dei due vfo A o B , riceve solo c'e il segnale e non piu sull'altro ! Settato su OFF riceve solo su 1 banda anche se il display le mostra sempre entrambe !! 0 off, 1 on

**BAND**, seleziona la banda: **0 vhf**, **1 uhf**

**TOT** [Time Of Transmission] (cons. 60): premendo il PTT si anno a disposizione X secondi (X e il valore che si imposta per il TOT) per effettuare la trasmissione, scaduto tale tempo la trasmissione viene automaticamente interrotta. Se non serve **impostare su 300** ( 5 minuti ).

**MEM-CH**, serve per memorizzare I canali : 000-127

**DEL-CH**, CANCELLA un canale occupato : 000-127  
Per variare un canale non si puo scriverci sopra ma prima si cancella !

**ABR**, durata illuminazione display: **0 off**, 1, 2, 3, 4, 5 secondi

**WT-LED**, illuminazione in stand by: **0 off**, 1 blu, 2 orange, 3 purple

**RX-LED**, illuminazione in ricezione : **0 off**, 1 blu, 2 orange, 3 purple

**TX-LED**, illuminazione in trasmissione : **0 off**, 1 blu, 2 orange, 3 purple

**"R"/"T" - "DCS" / "CTCSS"**[Rx / Tx per Digital Coded Squelch / Continuous Tone Coded Squelch System] (**cons. OFF**): imposta il codice per l'apertura selettiva dello squelch, usato per avviare

conversazioni con dei gruppi selezionati di utenti (tutti con lo stesso DCS/CTCS impostato in ricezione) ai quali si aprira lo squelch solo dopo aver ricevuto quel particolare codice DCS/CTCS. **Non garantiscono la confidenzialita'** della comunicazione ma solo la selettivita della provenienza della trasmissione, quindi sentite SOLO il vs corrispondente ma non altri che magari sono su quella frequenza , usato infatti per questo negli LPD e PMR !

- 10, R-DCS, reception digital coded squelch
- 11, R-CTCS, reception continuous tone coded squelch
- 12, T-DCS, transmission digital coded squelch
- 13, T-CTCS, transmission continuous tone coded squelch

**"PTT-ID"** [Push To Talk Identifier] (**cons. OFF**): viene impostato su un valore diverso da OFF per stabilire quando l'apparato invia il proprio PTT ID o ANI - *BOT* Begin Of Tx ; *EOT* End Of Tx ; *BOTH* Inizio e Fine trasmissione

**"ANI"** [Automatic Number Identification / PTT ID]: e' l'ID che viene trasmesso (se impostato su PTT-ID) per identificare questo apparecchio in particolare (puo essere impostato solo da PC)

**"DTMFST"** [DTMF Side Tone - Toni di Tastiera] (**cons. DT+ANI**): imposta se e come vengono sentiti i toni inviati: *OFF*: Nessun tono viene ascoltato ; *DT-ST*: si ascoltano solo toni inviati manualmente ; *ANI-ST*: si ascoltano solo i toni impostati automaticamente ; *DT+ANI*: si ascoltano TUTTI i toni DTMF

**"SC-REV"** [Scan Resume] (**cons. TO**): **imposta quando/come viene ripreso lo scan di frequenza** una volta trovata una trasmissione: *TO*: Time Operation ; *CO*: Carrier Operation ; *SE* Search Operation

**"OFFEST"** (**cons. 0** se usato in simplex !): l'effettivo **shift di frequenza** che, unito a SFT-D permette di trasmettere su una frequenza diversa da quella su cui si riceve (utile per i ponti radio). Da 0-69.990 MHz.

**"SFT-D"** [Shift Direction] (cons. OFF se usato in simplex !): **e' il segno applicato all'OFFSET** per lo shifting di frequenza in caso di trasmissione/ricezione su bande separate. 0 off, 1 +, 2 -

**"AL-MOD"** [Alarm Mode] (cons. TONE): **metodologia di allarme**. 0 site, 1 tono, 2 codice

**"Tx-AB"** [Transmission A/B selector]: seleziona se **forzare la trasmissione su un particolare canale (A o B) o in automatico** a seconda di dove si ha una comunicazione attiva

**TDR-AB**, transmitt+ selection while in dual watch/reception: **0 off**, 1 a, 2 b

**STE** [Side Tail Tone Elimination]: permette di impostare **se trasmettere o meno il tono di fine comunicazione** (nelle comunicazioni con un Repeater DEVE essere disattivato o impostato con "RP\_STE" e "RPT\_RL") 0 off; 1 on

**RP-STE**, eliminazione tono attraverso un ripetitore: **0 off**; 1-10

**RPT-RL**, delay del tono via ripetitore: **0 off**; 1-10

**MDF-A**, (quando ci si trova nel modo canali): 0 frequenza in MHz, 1 Numero canale, **2 name** (nome del canale solo programmabile via software)

**MDF-B**, uguale al menu 21, ma per la banda B

**BCL** [Busy Channel Lockout] (con. ON): **tiene il canale bloccato se sono in corso trasmissioni** (anche se lo squelch e chiuso a causa di trasmissioni coperte da DCS o CTCSS) non permettendo di inviare trasmissioni fino a quando il canale risulta occupato

**AUTOLK**, blocco automatico della tastiera: **0 off**, 1 on

**PONMSG**, messaggio all'accensione : 0 full; 1 mgs (solo via software !)

**ROGER**, tono di fine trasmissione : 0 off; 1 on ( il maledetto roger-beep )

**RESET**, resetta ai valori di fabbrica: 0 VFO; 1 all (si perde tutto !!!)

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## CONSIGLI UTILI:

**Tasto MENU** funziona anche come tasto ENTER !

Accesso ai TASTINI con **scritte in BLU** - premere Menu e poi il tasto !

**Eliminazione di canali viene effettuata con il menu 28.**

**Batteria a 9 VOLT :** Questo creerà una condizione di tensione e circuito di protezione della radio causerà la radio non trasmette. (mettere 1 finta pila !)

Se i contatti di ricarica sono cortocircuitati, **la batteria va in modalità di protezione**. Non ci sarà alcun danno per la radio, ma si spegnerà. **Per ripristinare la modalità di protezione, la batteria deve essere rimossa e reinserita.**

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- **mettere messaggio iniziale ?** con programma via sw !

- mettere limiti banda : **130-180 MHz 400 – 520 Mhz**

( **137.000 a 174.000 e da 400.000 a 480.000** )

- selezionare il **menu 2 (TXP)**  
viene visualizzata l'impostazione del **livello di potenza TX**

- selezionare il **menu 5 (WN)**  
viene visualizzata l'impostazione della **larghezza di banda** ( Wide o Narrow )

- **menu SQL** su 5 (massima sensibilita' su 1 )

- **Ci sono tre impostazioni per eliminare i toni di coda ripetitori o toni di cortesia.**

Non è esattamente chiaro quali siano le differenze in queste impostazioni, ma si vuole trasformare tutti fuori. C'è anche una impostazione "**roger beep**" **che anche voi volete disabilitare.**

Questi sono i menu **35, 36, 37, e 39** Set tutte queste voci a 0.: ( o su OFF ? )

- Premere il tasto "Menu", "3", "5", "Menu", "0", "Menu".
- Premere il tasto "Menu", "3", "6", "Menu", "0", "Menu".
- Premere il tasto "Menu", "3", "7", "Menu", "0", "Menu".
- Premere il tasto "Menu", "3", "9", "Menu", "0", "Menu".

- **menu 10 e 11 e 25** su OFF

- funzione **ROGER** (beep) metterla su OFF !

- **Per sapere la frequenza memorizzata piuttosto che Alfanumerica ?**

**Menù 21** - Menù – Freccia - **Freq**

Col **menù 22** si cambia la **riga inferiore B** .....

Volendo si può lasciare la riga superiore in modalità Name e quella inferiore in Freq

.... la quale oltre a visualizzare la frequenza , in piccolo indica il numero della memoria occupata ....  
così da **poter sapere velocemente la memoria Alfanumerica a quale frequenza corrisponde**

- **Dopo la programmazione (si spera) la mia UV-5R, come faccio a controllare i risultati e vedere come viene impostato ogni canale?**

Ad esempio, **selezionare il canale che si desidera verificare nel display superiore.**

Impostare il **menu 21 (MDF-A)** per **FREQ** viene visualizzata la frequenza RX

- **DOPPIO ASCOLTO**      **TDR (Menu 7)**

invece dal **menu 34** decidi se la trasmissione deve avvenire esclusivamente sul vfo A o esclusivamente sul B oppure poter scegliere tramite il **tasto A\B**.

- **Sul display in bianco e nero alla radio non si illumina, sarà guasto ?**

Probabilmente no. Più che probabile, il vostro **ABR (Menu 6)** è stato reimpostato su **OFF**.  
Questa è l'illuminazione display a Tempo.

Immettere la seguente sequenza:

**MENU 6** Freccia Freccia **MENU** EXIT

Questo imposterà l'**ABR** a 2 secondi.

**TEMPO ILLUMINAZIONE:** prova a portare il **menù 6 ABR** al valore 1 piuttosto che OFF

- **La mia radio non parla inglese?**

Menu, 14, Menu, selezione, Menu

La selezione varia a seconda release del firmware.      visualizzazione delle unità più vecchie ON / OFF, nuova visualizzazione **CHI / ENG / OFF**

- **WIDE o NARROW**

La **WIDE** è quella **che si usa di solito**, ma se vuoi usare la Narrow niente ti impedisce di farlo, senza andare troppo sul tecnico, come potrai notare alla fine avrai solo la ricezione un po' diversa rispetto alla Wide .

Wide = **5 khz (radioamatori)**

Narrow = 2,5 khz (civile)

- settare il **menù 9 TOT** che da default è impostato a **60 ... portalo a 600 !**

- **[CALL]** Tasto laterale 1 Premere il tasto [CALL] per **attivare la radio FM**; premere di nuovo per disattivare.

Premere il tasto **[\* tasto SCAN]** per eseguire la scansione dei canali FM.  
Premere e tenere premuto il tasto [CALL] per attivare la funzione di **allarme**,

### - Perché il mio audio 'taglia' durante l'ascolto di una stazione?

In questo caso, **STE (Menu 35)** deve essere impostato su OFF.

### - Perché il mio ricevitore 'pulsava' quando ritorno da un segnale ricevuto?

Si tratta di un **'bug' in alcune versioni del firmware.**

Se **Save (Menu 3)** è impostato a 1, 2, 3 o 4 e **ABR (Menu 6)** è impostato su 9 o 10, un pulsante può verificarsi su un segnale di trasmissione FM quando di ritorno da una interruzione del segnale ricevuto.

- **Soluzione:** Impostare **Save su OFF** o **ABR a 8** o meno.

### - RICERCA TONO CCTSS

In VFO per la **scansione Toni CCTS** dei ripetitori :

**Menu 11 Menu** [ funzione R-CTS ]

Premere il **tasto SCAN** e dovrebbe apparire **“CT” lampeggiante !**

Ricordarsi poi di mettere nel **Menu 11 la funzione su OFF.**

2016 - **IW2BSF Rodolfo Parisio**



# Reference for UV-5R Menus

## by Jim Unroe - KC9HI

### 13-July-2014

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Menu Number<br>/ Short Name | Long Name / Description / Settings / Notes  | Global | MR/<br>Channel<br>Mode | VFO/<br>Frequency<br>Mode | Separate<br>VFO<br>A & B<br>Settings | Stored<br>on a Per<br>Channel<br>Basis |
|-----------------------------|---|--------|------------------------|---------------------------|--------------------------------------|--|
| 0<br>SQL                    | <b>Carrier SQuelch</b><br>Mutes the speaker of the transceiver in the absence of a strong signal. Squelch is either OFF or one of 9 levels. The higher the level, the stronger the signal must be to un-mute the speaker.                         | ✓      |                        |                           |                                      |  |
|                             | Settings: 0 - 9<br>Default: 5   |        |                        |                           |                                      |  |
|                             | VHF: 0 = Open 1 - 9 ≈ 0.10μV (firmware bug)   |        |                        |                           |                                      |  |
|                             | UHF: 0 = Open 1 ≈ 0.10μV 2 ≈ 0.12μV 3 ≈ 0.13μV 4 ≈ 0.15μV<br>5 ≈ 0.18μV 6 ≈ 0.20μV 7 ≈ 0.23μV 8 ≈ 0.26μV 9 ≈ 0.30μV<br>Measurements were performed by Steve WB8GRS  |        |                        |                           |                                      |  |
|                             | Note: The CALL button (FM or ALARM) is not functional when menu 0 = 0   |        |                        |                           |                                      |  |
| 1<br>STEP                   | <b>Frequency STEP (Khz)</b><br>Selects the amount of frequency change in VFO/Frequency mode when scanning or pressing the [▲] or [▼] keys.  |        |                        | ✓                         | ✓                                    |  |
|                             | Settings: (≤ BFB290) 2.5K[0]   5.0K[1]   6.25K[2]   10.0K[3]<br>  12.5K[4]   25.0K[5] Default: 2.5K   |        |                        |                           |                                      |  |
|                             | Settings: (≥ BFB291) 2.5K[0]   5.0K[1]   6.25K[2]   10.0K[3]<br>  12.5K[4]   20.0K[5]   25.0K[6]   50.0K[7] Default: 2.5K   |        |                        |                           |                                      |  |
| 2<br>TXP                    | <b>Transmit (TX) Power</b><br>Selects between HIGH and LOW transmitter power when in VFO/Frequency mode. Use the minimum transmitter power necessary to carry out the desired communications.   |        | RO                     | ✓                         | ✓                                    | ✓                                      |
|                             | Settings: HIGH[0]   LOW[1] Default: HIGH  |        |                        |                           |                                      |  |
|                             | HIGH: ≈ 4 watts   |        |                        |                           |                                      |  |
|                             | LOW: ≈ 1 watt   |        |                        |                           |                                      |  |
|                             | Note: When TXP is set to LOW, an 'L' is indicated in the status display<br>Note: The power level can be toggled in MR/Channel mode by tapping the [#][0] key (may require menu 7 = OFF - see menu 7)  |        |                        |                           |                                      |  |
| 3<br>SAVE                   | <b>Battery SAVE</b><br>Selects the ratio of sleep cycles to awake cycles (1:1, 2:1, 3:1, 4:1). The higher the number the longer the battery lasts. When enabled, a word or two might be missed when the frequency being monitored becomes active. | ✓      |                        |                           |                                      |  |
|                             | Settings: OFF[0]   1   2   3   4 Default: 3   |        |                        |                           |                                      |  |
|                             | Note: When SAVE is not set to OFF and 'ABR' is ≥ 9, pulsing may be heard when the radio returns to FM broadcast reception after being interrupted   |        |                        |                           |                                      |  |
| 4<br>VOX                    | <b>Voice Operated Transmission (TX)</b><br>When enabled it is not necessary to push the [PTT] button on the transceiver. Adjust the gain level to an appropriate sensitivity to allow smooth transmission.  | ✓      |                        |                           |                                      |  |
|                             | Settings: OFF[0]   1   2   3   4   5   6   7   8   9   10 Default: OFF  |        |                        |                           |                                      |  |
|                             | Note: When VOX is not set to OFF, 'VOX' is indicated in the status display<br>Note: Level setting may not work properly (firmware bug?)   |        |                        |                           |                                      |  |
| 5<br>WN                     | <b>Wideband / Narrowband</b><br>Wideband (25 kHz bandwidth) or narrowband (12.5 kHz bandwidth).   |        | RO                     | ✓                         | ✓                                    | ✓                                      |
|                             | Settings: WIDE[0]   NARR[1] Default: WIDE   |        |                        |                           |                                      |  |
|                             | Emission: 16K0F3E / 11K0F3E (W/N)   |        |                        |                           |                                      |  |
|                             | Deviation: ≤ ±5 kHz / ≤ ±2.5 kHz (W/N)  |        |                        |                           |                                      |  |
|                             | Note: When WN is set to NARR, an 'N' is indicated in the status display   |        |                        |                           |                                      |  |
| 6<br>ABR                    | <b>Automatic Back Light Shutoff TimeR (seconds)</b><br>Length of time the display is illuminated  | ✓      |                        |                           |                                      |  |
|                             | Settings: (≤ BFB291) OFF[0]   1   2   3   4   5 Default: 5  |        |                        |                           |                                      |  |
|                             | Settings: (≥ BFB293) OFF[0]   1   2   3   4   5   6   7   8   9   10 Default: 5   |        |                        |                           |                                      |  |
|                             | Note: The ABR setting also sets the delay before the radio returns to FM broadcast reception after being interrupted  |        |                        |                           |                                      |  |
|                             | Note: When 'ABR' is ≥ 9 and SAVE is not set to OFF, pulsing may be heard when the radio returns to FM broadcast reception after being interrupted   |        |                        |                           |                                      |  |
|                             | Note: ABR can be set to 24 using CHIRP  |        |                        |                           |                                      |  |

# Reference for UV-5R Menus

## by Jim Unroe - KC9HI

### 13-July-2014

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Menu Number<br>/ Short Name                                  | Long Name / Description / Settings / Notes   | Global | MR/<br>Channel<br>Mode | VFO/<br>Frequency<br>Mode | Separate<br>VFO<br>A & B<br>Settings | Stored<br>on a Per<br>Channel<br>Basis |
|--|--|--------|------------------------|---------------------------|--------------------------------------|--|
| 7<br>TDR   | <b>Dual Watch/Transceiver Dual Reception</b><br>Monitor [A] and [B] at the same time by scanning between them. The display with the most recent activity ([A] or [B]) becomes the selected display.  | ✓      |                        |                           |                                      |  |
|  | Settings: OFF[0]   ON[1]      Default: ON  |        |                        |                           |                                      |  |
|  | Note: When TDR is set to ON, an 'S' is indicated in the status display   |        |                        |                           |                                      |  |
|  | Note: The selected display can be forced back to [A] or [B] using menu 34  |        |                        |                           |                                      |  |
|  | Note: (≤ BFB251) Enabling TDR disables the ability to enter 'reverse' mode by tapping the [*SCAN] key  |        |                        |                           |                                      |  |
|  | Note: (≤ BFB251) Enabling TDR disables the ability to toggle the power level in MR mode by tapping the [#P/O] key  |        |                        |                           |                                      |  |
|  | Note: TDR should be set to OFF when manually programming   |        |                        |                           |                                      |  |
| Note: TDR is inhibited while memory scanning is in operation |  |        |                        |                           |                                      |  |
| 8<br>BEEP  | <b>Keypad BEEP</b><br>Allows audible confirmation of a key press   | ✓      |                        |                           |                                      |  |
|  | Settings: OFF[0]   ON[1]      Default: ON  |        |                        |                           |                                      |  |
| 9<br>TOT   | <b>Transmission Time-Out Timer (seconds)</b><br>This feature provides a safety switch which limits transmission time to a programmed value. This will promote battery conservation by not allowing you to make excessively-long transmissions, and in the event of a stuck PTT switch (perhaps if the radio or a Speaker/Mic is wedged between car seats) it can prevent interference to other users as well as battery depletion. | ✓      |                        |                           |                                      |  |
|  | Settings: 15[0] - 600[39] in 15 second steps (see TOT Table)      Default: 60  |        |                        |                           |                                      |  |
|  | Note: (TIMEOUT-15)/15=[n]  |        |                        |                           |                                      |  |
|  | Note: The red TX LED begins to flash 10 seconds before the timeout limit is reached  |        |                        |                           |                                      |  |
| 10<br>R-DCS  | <b>Receive - Digital Coded Squelch (DCS)</b><br>Mutes the speaker of the transceiver in the absence of a specific low level digital signal. If the station you are listening to does not transmit this specific signal, you will not hear anything.  |        | RO                     | ✓                         | ✓                                    | ✓                                      |
|  | Settings: OFF[0]   see DCS Table      Default: OFF   |        |                        |                           |                                      |  |
|  | Note: When R-DCS is not set to OFF, 'DCS' is indicated to the left of the upper channel display  |        |                        |                           |                                      |  |
|  | Note: Setting R-DCS sets menu 11 to OFF  |        |                        |                           |                                      |  |
|  | Note: Recommended setting is OFF   |        |                        |                           |                                      |  |
| 11<br>R-CTCS   | <b>Receive - Continuous Tone Coded Squelch System (CTCSS)</b><br>Mutes the speaker of the transceiver in the absence of a specific and continuous sub-audible signal. If the station you are listening to does not transmit this specific and continuous signal, you will not hear anything.   |        | RO                     | ✓                         | ✓                                    | ✓                                      |
|  | Settings: OFF[0]   see CTCSS Table      Default: OFF   |        |                        |                           |                                      |  |
|  | Note: When R-CTCS is not set to OFF, 'CT' is indicated to the left of the upper channel display  |        |                        |                           |                                      |  |
|  | Note: (R-CTCS ≤ 131.8 Hz) Scanning never stops regardless of the correct CTCSS tone being received   |        |                        |                           |                                      |  |
|  | Note: (R-CTCS ≥ 141.3 Hz) Scanning stops regardless of the actual CTCSS tone being received  |        |                        |                           |                                      |  |
|  | Note: R-CTCS works properly (selectively) while not scanning   |        |                        |                           |                                      |  |
|  | Note: Setting R-CTCS sets menu 10 to OFF   |        |                        |                           |                                      |  |
|  | Note: Recommended setting is OFF   |        |                        |                           |                                      |  |

# Reference for UV-5R Menus by Jim Unroe - KC9HI 13-July-2014

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Menu Number / Short Name   | Long Name / Description / Settings / Notes  | Global | MR/ Channel Mode | VFO/ Frequency Mode | Separate VFO A & B Settings | Stored on a Per Channel Basis |
|--|---|--------|------------------|---------------------|-----------------------------|-------------------------------|
| 12<br>T-DCS  | <b>Transmit - Digital Coded Squelch (DCS)</b><br>Transmits a specific low level digital signal to unlock the squelch of a distant receiver (usually a repeater).  |        | RO               | ✓                   | ✓                           | ✓                             |
|  | Settings: OFF[0]   see DCS Table   Default: OFF   |        |                  |                     |                             |                               |
|  | Note: Setting T-DCS sets menu 13 to OFF   |        |                  |                     |                             |                               |
|  | Note: When T-DCS is not set to OFF, 'DCS' is indicated to the left of the upper channel display (requires TX or 'reverse' mode)   |        |                  |                     |                             |                               |
| 13<br>T-CTCS   | <b>Transmit - Continuous Tone Coded Squelch System (CTCSS)</b><br>Transmits a specific and continuous sub-audible signal to unlock the squelch of a distant receiver (usually a repeater).                    |        | RO               | ✓                   | ✓                           | ✓                             |
|  | Settings: OFF[0]   see CTCSS Table   Default: OFF   |        |                  |                     |                             |                               |
|  | Note: Setting T-CTCS sets menu 12 to OFF  |        |                  |                     |                             |                               |
|  | Note: When T-CTCS is not set to OFF, 'CT' is indicated to the left of the upper channel display (requires TX or 'reverse' mode)   |        |                  |                     |                             |                               |
| 14<br>VOICE  | <b>VOICE Prompt</b><br>Allows audible voice confirmation of a key press   | ✓      |                  |                     |                             |                               |
|  | Settings: (≤ BFB238) OFF[0]   ON[1]   Default: ON   |        |                  |                     |                             |                               |
|  | Settings: (≥ BFB251) OFF[0]   ENG[1]   CHI[2]   Default: CHI  |        |                  |                     |                             |                               |
|  | Note: Not all voice prompts are easily understandable. Not all key presses have a voice prompt.   |        |                  |                     |                             |                               |
| 15<br>ANI-ID   | <b>Automatic Number Identification - ID</b><br>Displays the ANI code that has been set by software. This menu can not be used to change it. The ANI-ID is sent when the alarm is activated and menu 32 = CODE | RO     |                  |                     |                             |                               |
| 16<br>DTMFST   | <b>DTMF Side Tones</b><br>Determines when DTMF Side Tones can be heard from the transceiver speaker.  | ✓      |                  |                     |                             |                               |
|  | Settings: OFF[0]   DT-ST[1]   ANI-ST[2]   DT+ANI[3]   Default: DT+ANI   |        |                  |                     |                             |                               |
|  | OFF: No DTMF Side Tones are heard   |        |                  |                     |                             |                               |
|  | DT-ST: Side Tones are heard only from manually keyed DTMF codes   |        |                  |                     |                             |                               |
|  | ANI-ST: Side Tones are heard only from automatically keyed DTMF codes   |        |                  |                     |                             |                               |
|  | DT+ANI: All DTMF Side Tones are heard   |        |                  |                     |                             |                               |
|  | Note: Requires the transceiver to be in transmit mode.  |        |                  |                     |                             |                               |
|  | Note: The mic can pick up the sidetone and if the volume loud enough, it will overdrive and/or distort the transmitted DTMF tones.  |        |                  |                     |                             |                               |
|  | Note: (≤ BFB231) [MENU]=A, [▲]=C, [▼]=B, [EXIT]=D (†)   |        |                  |                     |                             |                               |
|  | Note: (≥ BFB238) [MENU]=A, [▲]=B, [▼]=C, [EXIT]=D (†)   |        |                  |                     |                             |                               |
| Note: (≥ BFB311) [MENU]=A, [▲]=B, [▼]=C, [EXIT]=0                          |   |        |                  |                     |                             |                               |
| (†) The Side Tone heard for 'D' is '0' (zero) but 'D' is sent over-the-air |   |        |                  |                     |                             |                               |
| 17<br>S-CODE   | <b>PTT-ID (Signal-CODE) Selection</b><br>Selects 1 of 15 signal codes. The signal codes are programmed with software and are up to 5 DTMF signals each.   |        | RO               | ✓                   | ✓                           | ✓                             |
|  | Settings: 1[0]   2[1]   3[2]   4[3]   5[4]   6[5]   7[6]   8[9]   9[8]   10[9]   11[10]   12[11]   13[12]   14[13]   15[14]   Default: 1  |        |                  |                     |                             |                               |
|  | Note: Menu 19 must be enabled for an S-CODE to be transmitted.  |        |                  |                     |                             |                               |
| 18<br>SC-REV   | <b>SCan-REVive/Resume Method</b>  | ✓      |                  |                     |                             |                               |
|  | Settings: TO[0]   CO[1]   SE[2]   Default: TO   |        |                  |                     |                             |                               |
|  | TO: Time Operation - scanning will resume after a fixed time has passed   |        |                  |                     |                             |                               |
|  | CO: Carrier Operation - scanning will resume after the active signal disappears   |        |                  |                     |                             |                               |
| SE: Search Operation - scanning will not resume                            |   |        |                  |                     |                             |                               |
| 19<br>PTT-ID   | <b>When to Send PTT-ID</b>  |        | RO               | ✓                   |                             | ✓                             |
|  | Settings: OFF[0]   BOT[1]   EOT[2]   BOTH[3]   Default: OFF   |        |                  |                     |                             |                               |
|  | OFF: No ID is sent  |        |                  |                     |                             |                               |
|  | BOT: The selected S-CODE is sent at the Beginning of Transmission   |        |                  |                     |                             |                               |
|  | EOT: The selected S-CODE is sent at the End of Transmission   |        |                  |                     |                             |                               |
|  | BOTH: The selected S-CODE is sent at the BOT and the EOT  |        |                  |                     |                             |                               |
|  | Note: Select S-CODE using menu 17   |        |                  |                     |                             |                               |
| Note: Recommended setting is OFF   |   |        |                  |                     |                             |                               |

**Reference for UV-5R Menus**  
**by Jim Unroe - KC9HI**  
**13-July-2014**

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Menu Number / Short Name   | Long Name / Description / Settings / Notes   | Global | MR/ Channel Mode | VFO/ Frequency Mode | Separate VFO A & B Settings | Stored on a Per Channel Basis |
|--|--|--------|------------------|---------------------|-----------------------------|-------------------------------|
| 20<br>PTT-LT   | <b>PTT-Lagged Transmission (PTT-ID Delay in milliseconds)</b>  | ✓      |                  |                     |                             |                               |
|  | Length of time after [PTT] is pressed until PTT-ID is transmitted  |        |                  |                     |                             |                               |
|  | Settings: (≤ BFB290) 0 - 30      Default: 5  |        |                  |                     |                             |                               |
|  | Settings: (≥ BFB291) 0 - 50      Default: 5  |        |                  |                     |                             |                               |
|  | Note: Requires menu 19 to be enabled   |        |                  |                     |                             |                               |
| 21<br>MDF-A  | <b>Memory Display Format - [A]</b>   |        | ✓                |                     |                             |                               |
|  | Settings: CH[0]   NAME[1]   FREQ[2]      Default: NAME   |        |                  |                     |                             |                               |
|  | CH: Displays the channel number  |        |                  |                     |                             |                               |
|  | NAME: Displays the channel name. Names must be entered using software. A channel without an assigned name will have the channel number displayed   |        |                  |                     |                             |                               |
|  | FREQ: Displays programmed Frequency  |        |                  |                     |                             |                               |
| 22<br>MDF-B  | <b>Memory Display Format - [B]</b>   |        | ✓                |                     |                             |                               |
|  | Settings: CH[0]   NAME[1]   FREQ[2]      Default: FREQ   |        |                  |                     |                             |                               |
|  | CH: Displays the channel number  |        |                  |                     |                             |                               |
|  | NAME: Displays the channel name. Names must be entered using software. A channel without an assigned name will have the channel number displayed   |        |                  |                     |                             |                               |
|  | FREQ: Displays programmed Frequency  |        |                  |                     |                             |                               |
| 23<br>BCL  | <b>Busy Channel Lock-Out</b>   |        | RO               | ✓                   |                             | ✓                             |
|  | Disables the [PTT] button on a channel that is already in use. The transceiver will sound a beep tone and will not transmit if the [PTT] button is pressed when a channel is already in use. |        |                  |                     |                             |                               |
|  | Settings: OFF[0]   ON[1]      Default: OFF   |        |                  |                     |                             |                               |
| 24<br>AUTOLK   | <b>AUTOMATIC Keypad Lock</b>   | ✓      |                  |                     |                             |                               |
|  | When ON, the keypad will be locked if not used in 8 secs. Pressing the [#] key for 2 seconds will temporarily unlock the keypad.   |        |                  |                     |                             |                               |
|  | Settings: OFF[0]   ON[1]      Default: OFF   |        |                  |                     |                             |                               |
|  | Note: When the keypad is locked, a 'LO' is indicated in the status display   |        |                  |                     |                             |                               |
|  | Note: The keypad lock only locks the buttons on the front face of the UV-5R. It does not lock the [CALL] button, the [PTT] button or the [MONI] button.                                      |        |                  |                     |                             |                               |
| 25<br>SFT-D  | <b>Frequency Shift – Direction</b>   |        | ⊖                | ✓                   | ✓                           |                               |
|  | Enables access of repeaters in VFO/Frequency Mode  |        |                  |                     |                             |                               |
|  | Settings: OFF[0]   +[1]   -[2]      Default: OFF   |        |                  |                     |                             |                               |
|  | OFF: TX = RX (simplex)   |        |                  |                     |                             |                               |
|  | +: TX will be shifted higher in frequency than RX  |        |                  |                     |                             |                               |
|  | -: TX will be shifted lower in frequency than RX   |        |                  |                     |                             |                               |
|  | Note: When SFT-D is set to +, a '+' is indicated in the status display (VFO/Frequency mode only)   |        |                  |                     |                             |                               |
|  | Note: When SFT-D is set to -, a '-' is indicated in the status display (VFO/Frequency mode only)   |        |                  |                     |                             |                               |
| Note: Used with menu 26 to access repeaters in VFO/Frequency mode (+ and - only) |  |        |                  |                     |                             |                               |
| Note: SFT-D is not required when storing repeater frequencies into channels      |  |        |                  |                     |                             |                               |
| 26<br>OFFSET   | <b>Frequency Shift/OFFSET (MHz)</b>  |        | ⊖                | ✓                   | ✓                           |                               |
|  | Specifies the difference between the TX and RX frequencies   |        |                  |                     |                             |                               |
|  | Settings: 00.000 - 69.990 in 10 kHz steps      Default: 00.600   |        |                  |                     |                             |                               |
|  | Note: Used with menu 25 to access repeaters in VFO/Frequency mode  |        |                  |                     |                             |                               |
|  | Note: Typical ham offsets are: VHF = 00.600 UHF = 05.000   |        |                  |                     |                             |                               |
| Note: OFFSET is not required when storing repeater frequencies into channels     |  |        |                  |                     |                             |                               |

**Reference for UV-5R Menus**  
**by Jim Unroe - KC9HI**  
**13-July-2014**

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Menu Number / Short Name                           | Long Name / Description / Settings / Notes   | Global  | MR/<br>Channel<br>Mode | VFO/<br>Frequency<br>Mode | Separate<br>VFO<br>A & B<br>Settings | Stored<br>on a Per<br>Channel<br>Basis |
|--|--|---|------------------------|---------------------------|--------------------------------------|--|
| <b>27</b><br><b>MEM-CH</b>                         | <b>MEMory - CHannel Programming</b>  |   |                        |                           |                                      |  |
|  | This menu is used to either create new or modify existing channels (000 through 127) so that they can be accessed from MR/Channel Mode. The behavior of menu 27 changes depending on whether the target channel is empty or has been previously programmed (see below).  |   |                        |                           |                                      |  |
|  | Settings: 000 - 127  | Default: 000  |                        |                           |                                      |  |
|  | Note: Programming must be done in [A] VFO  |   |                        |                           |                                      |  |
|  | Empty Target Channel:<br>The RX and TX frequencies of the target channel are set to the [A] VFO frequency. The settings of the following menus are also saved into the target channel. This essentially creates a fully operational simplex channel.   |   |                        |                           |                                      |  |
|  | Menu 2 - TXP   | Transmit Power  |                        |                           |                                      |  |
|  | Menu 5 - WN  | Wideband / Narrowband   |                        |                           |                                      |  |
|  | Menu 10 - R-DCS  | Digital Coded Squelch (DCS) - Receive/Decode                            |                        |                           |                                      |  |
|  | Menu 11 - R-CTCS   | Continuous Tone Coded Squelch System (CTCSS) - Receive/Decode           |                        |                           |                                      |  |
|  | Menu 12 - T-DCS  | Digital Coded Squelch (DCS) - Transmit/Encode                           |                        |                           |                                      |  |
|  | Menu 13 - T-CTCS   | Continuous Tone Coded Squelch System (CTCSS) - Transmit/Encode          |                        |                           | ✓                                    |  |
|  | Menu 17 - S-CODE   | PTT-ID DTMF Code Selection  |                        |                           |                                      |  |
|  | Menu 19 - PTT-ID   | When to Send PTT-ID   |                        |                           |                                      |  |
|  | Menu 23 - BCL  | Busy Channel Lockout  |                        |                           |                                      |  |
|  | Previously Programmed Target Channel:<br>The TX frequency of the target channel is set to the [A] VFO frequency. The settings of the following menus are also saved into the target channel. Uses for this can be to update a newly created 'simplex' channel into a 'repeater' channel or a 'cross-band' channel. Another use would be to add, change or remove a TX DCS code or TX CTCSS tone. |   |                        |                           |                                      |  |
| Menu 12 - T-DCS                                    | Digital Coded Squelch (DCS) - Transmit/Encode  |   |                        |                           |                                      |  |
| Menu 13 - T-CTCS                                   | Continuous Tone Coded Squelch System (CTCSS) - Transmit/Encode   |   |                        |                           |                                      |  |
| Note:  | When the TX frequency differs from RX frequency, a '+-' is indicated in the status display   |   |                        |                           |                                      |  |
| Note:  | TDR should be set to OFF when manually programming   |   |                        |                           |                                      |  |
| Note:  | It is a good idea to check the above menus prior to using menu 27 to make sure none of them have an unwanted setting that was left over from a previous programming session.   |   |                        |                           |                                      |  |
| <b>28</b><br><b>DEL-CH</b>                         | <b>DELeTe/Erase Memory - CHannel</b>   |   |                        |                           |                                      |  |
|  | This menu is used to erase the programmed information from the specified channel (000 through 127) so that it can either be programmed again or be left empty.   | ✓   |                        |                           |                                      |  |
| Settings: 000 - 127                                | Default: 000   |   |                        |                           |                                      |  |
| <b>29</b><br><b>WT-LED</b>                         | <b>Standby (WaiT) - Back Light LED Color</b>   |   |                        |                           |                                      |  |
|  | Display Illumination Color   | ✓   |                        |                           |                                      |  |
| Settings: OFF[0]   BLUE[1]   ORANGE[2]   PURPLE[3] | Default: PURPLE  |   |                        |                           |                                      |  |
| <b>30</b><br><b>RX-LED</b>                         | <b>Receive (RX) - Back Light LED Color</b>   |   |                        |                           |                                      |  |
|  | Display Illumination Color   | ✓   |                        |                           |                                      |  |
| Settings: OFF[0]   BLUE[1]   ORANGE[2]   PURPLE[3] | Default: BLUE  |   |                        |                           |                                      |  |
| <b>31</b><br><b>TX-LED</b>                         | <b>Transmit (TX) - Back Light LED Color</b>  |   |                        |                           |                                      |  |
|  | Display Illumination Color   | ✓   |                        |                           |                                      |  |
| Settings: OFF[0]   BLUE[1]   ORANGE[2]   PURPLE[3] | Default: ORANGE  |   |                        |                           |                                      |  |
| <b>32</b><br><b>AL-MOD</b>                         | <b>ALarm - MODE</b>  |   |                        |                           |                                      |  |
|  | Settings: SITE[0]   TONE[1]   CODE[2]  | Default: TONE   |                        |                           |                                      |  |
|  | SITE:  | Sounds alarm through your radio speaker only                            | ✓                      |                           |                                      |  |
|  | TONE:  | Transmits a cycling tone over-the-air                                   |                        |                           |                                      |  |
|  | CODE:  | Transmits '119' (911 in reverse?) followed by the ANI code over-the-air |                        |                           |                                      |  |
| Note:  | Recommended setting is OFF... but since that isn't a choice use SITE   |   |                        |                           |                                      |  |

**Reference for UV-5R Menus**  
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**13-July-2014**

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Menu Number<br>/ Short Name   | Long Name / Description / Settings / Notes   | Global | MR/<br>Channel<br>Mode | VFO/<br>Frequency<br>Mode | Separate<br>VFO<br>A & B<br>Settings | Stored<br>on a Per<br>Channel<br>Basis |               |
|---|--|--------|------------------------|---------------------------|--------------------------------------|--|---------------|
| 33<br>BAND  | <b>BAND Selection</b><br>In VFO/Frequency mode, sets [A] or [B] to the VHF or UHF band.  | ✓      | RO                     | ✓                         | ✓                                    | ✓                                      |               |
|   | Settings: VHF[0]   UHF[1]  |        |                        |                           |                                      |  | Default: VHF  |
|   | Note: When transitioning from VHF to UHF or from UHF to VHF, the selected band's low frequency limit becomes the displayed frequency (the original 'scratch' frequency is lost)  |        |                        |                           |                                      |  |               |
| 34<br>TDR-AB  | <b>Transceiver Dual Reception - [A]/[B] Display Priority</b><br>When enabled, priority is returned to selected display once the signal in the other display disappears.  | ✓      |                        |                           |                                      |  |               |
|   | Settings: OFF[0]   A[1]   B[2]   |        |                        |                           |                                      |  | Default: OFF  |
|   | Note: Requires menu 7 to be enabled  |        |                        |                           |                                      |  |               |
| 35<br>STE   | <b>Transceiver - Squelch Tail Elimination</b><br>This function is used eliminate squelch tail noise between UV-5Rs that are communicating directly (no repeater). Reception of a 55 Hz or 134.4 Hz tone burst mutes the audio long enough to prevent hearing any squelch tail noise. | ✓      |                        |                           |                                      |  |               |
|   | Settings: OFF[0]   ON[1]   |        |                        |                           |                                      |  | Default: ON   |
|   | Note: When enabled and T-DCS is set to OFF the radio sends a 55 Hz tone for about 1/4 second when the PTT key is released.   |        |                        |                           |                                      |  |               |
|   | Note: When enabled and T-DCS is not set to OFF the radio sends a 134.4 Hz tone for about 1/4 second when the PTT key is released.  |        |                        |                           |                                      |  |               |
|   | Note: Set to OFF before communicating through a repeater.  |        |                        |                           |                                      |  |               |
| Note: Recommended setting is OFF  |  |        |                        |                           |                                      |  |               |
| 36<br>RP-STE  | <b>RePeater - Squelch Tail Elimination</b><br>This function is used eliminate squelch tail noise when communicating through a repeater.  | ✓      |                        |                           |                                      |  |               |
|   | Settings: OFF[0]   1 - 10  |        |                        |                           |                                      |  | Default: 5    |
|   | Note: Requires use of a repeater utilizing this feature.   |        |                        |                           |                                      |  |               |
|   | Note: Used with menu 37  |        |                        |                           |                                      |  |               |
|   | Note: Recommended setting is OFF   |        |                        |                           |                                      |  |               |
| 37<br>RPT-RL  | <b>RePeaTer - Retard Squelch Tail ELimination Tail Tone (X100 milliseconds)</b><br>Length of time after [PTT] is released until STE tail tone is transmitted   | ✓      |                        |                           |                                      |  |               |
|   | Settings: OFF[0]   1 - 10  |        |                        |                           |                                      |  | Default: OFF  |
|   | Note: Used with menu 36  |        |                        |                           |                                      |  |               |
|   | Note: Recommended setting is OFF   |        |                        |                           |                                      |  |               |
| 38<br>PONMSG  | <b>Power ON MeSsaGe</b><br>Controls the behavior of the display when the transceiver is turned on.   | ✓      |                        |                           |                                      |  |               |
|   | Settings: FULL[0]   MSG[1]   |        |                        |                           |                                      |  | Default: FULL |
|   | FULL: Performs an LCD screen test at power-on  |        |                        |                           |                                      |  |               |
|   | MSG: Displays a 2-line power-on message  |        |                        |                           |                                      |  |               |
|   | Note: The power-on message must be edited with software  |        |                        |                           |                                      |  |               |
| 39<br>ROGER   | <b>ROGER Beep</b><br>Sends an end-of-transmission tone to indicate to other stations that the transmission has ended.  | ✓      |                        |                           |                                      |  |               |
|   | Settings: OFF[0]   ON[1]   |        |                        |                           |                                      |  | Default: OFF  |
|   | Note: Recommended setting is OFF   |        |                        |                           |                                      |  |               |
| 40<br>RESET   | <b>RESET to Firmware Default Settings</b>  | ✓      |                        |                           |                                      |  |               |
|   | Settings: VFO[0]   ALL[1]  |        |                        |                           |                                      |  | Default: ALL  |
|   | VFO: Resets all menus to firmware default and sets the [A] and [B] VFO frequencies to firmware default.  |        |                        |                           |                                      |  |               |
| ALL: Resets all menus to firmware default, sets the [A] VFO frequency to the VHF band low limit and the [B] VFO frequency to the UHF band low limit, erases all channels and programs channel 0 to 136.025 MHz and channel 127 to 470.625 MHz |  |        |                        |                           |                                      |  |               |

# Reference for UV-5R Menus

## by Jim Unroe - KC9HI

### 13-July-2014

(send comments, suggestions or corrections to [UV-5R@KC9HI.net](mailto:UV-5R@KC9HI.net))

| Menu Number<br>/ Short Name | Long Name / Description / Settings / Notes | Global | MR/<br>Channel<br>Mode | VFO/<br>Frequency<br>Mode | Separate<br>VFO<br>A & B<br>Settings | Stored<br>on a Per<br>Channel<br>Basis |
|-----------------------------|--|--------|------------------------|---------------------------|--------------------------------------|--|
|-----------------------------|--|--------|------------------------|---------------------------|--------------------------------------|--|

#### Legend & Definitions

[A] The top/upper VFO/Channel Display

[B] The bottom/lower VFO/Channel Display

RX Receive

TX Transmit

PTT Push-to-talk

RO Read Only

✓ Valid

⊘ Inhibited

[n] Numbers in brackets are shortcuts

YMMV Your Mileage May Vary

DEFAULT Firmware default following a RESET->ALL

Time Out Timer Table (Menu 9)

| N° | Seconds | N° | Seconds | N° | Seconds | N° | Seconds |
|----|---------|----|---------|----|---------|----|---------|
| 0  | 15      | 10 | 165     | 20 | 315     | 30 | 465     |
| 1  | 30      | 11 | 180     | 21 | 330     | 31 | 480     |
| 2  | 45      | 12 | 195     | 22 | 345     | 32 | 495     |
| 3  | 60      | 13 | 210     | 23 | 360     | 33 | 510     |
| 4  | 75      | 14 | 225     | 24 | 375     | 34 | 525     |
| 5  | 90      | 15 | 240     | 25 | 390     | 35 | 540     |
| 6  | 105     | 16 | 255     | 26 | 405     | 36 | 555     |
| 7  | 120     | 17 | 270     | 27 | 420     | 37 | 570     |
| 8  | 135     | 18 | 285     | 28 | 435     | 38 | 585     |
| 9  | 150     | 19 | 300     | 29 | 450     | 39 | 600     |

Note: digits in the 'N°' column are shortcuts

CTCSS Table (Menu 11 & Menu 13)

| N° | Tone(Hz) | N° | Tone(Hz) | N° | Tone(Hz) | N° | Tone(Hz) | N° | Tone(Hz) |
|----|----------|----|----------|----|----------|----|----------|----|----------|
|    | 67.0     |    | 94.8     |    | 131.8    |    | 171.3    |    | 203.5    |
|    | 69.3     |    | 97.4     |    | 136.5    |    | 173.8    |    | 206.5    |
|    | 71.9     |    | 100.0    |    | 141.3    |    | 177.3    |    | 210.7    |
|    | 74.4     |    | 103.5    |    | 146.2    |    | 179.9    |    | 218.1    |
|    | 77.0     |    | 107.2    |    | 151.4    |    | 183.5    |    | 225.7    |
|    | 79.7     |    | 110.9    |    | 156.7    |    | 186.2    |    | 229.1    |
|    | 82.5     |    | 114.8    |    | 159.8    |    | 189.9    |    | 233.6    |
|    | 85.4     |    | 118.8    |    | 162.2    |    | 192.8    |    | 241.8    |
|    | 88.5     |    | 123.0    |    | 165.5    |    | 196.6    |    | 250.3    |
|    | 91.5     |    | 127.3    |    | 167.9    |    | 199.5    |    | 254.1    |



## DCS Table (Menu 10 &amp; Menu 12)

| N° | Code  | N° | Code  | N° | Code  | N° | Code  | N°  | Code  |
|----|-------|----|-------|----|-------|----|-------|-----|-------|
| 1  | D023N | 22 | D131N | 43 | D251N | 64 | D371N | 85  | D532N |
| 2  | D025N | 23 | D132N | 44 | D252N | 65 | D411N | 86  | D546N |
| 3  | D026N | 24 | D134N | 45 | D255N | 66 | D412N | 87  | D565N |
| 4  | D031N | 25 | D143N | 46 | D261N | 67 | D413N | 88  | D606N |
| 5  | D032N | 26 | D145N | 47 | D263N | 68 | D423N | 89  | D612N |
| 6  | D036N | 27 | D152N | 48 | D265N | 69 | D431N | 90  | D624N |
| 7  | D043N | 28 | D155N | 49 | D266N | 70 | D432N | 91  | D627N |
| 8  | D047N | 29 | D156N | 50 | D271N | 71 | D445N | 92  | D631N |
| 9  | D051N | 30 | D162N | 51 | D274N | 72 | D446N | 93  | D632N |
| 10 | D053N | 31 | D165N | 52 | D306N | 73 | D452N | 94  | D645N |
| 11 | D054N | 32 | D172N | 53 | D311N | 74 | D454N | 95  | D654N |
| 12 | D065N | 33 | D174N | 54 | D315N | 75 | D455N | 96  | D662N |
| 13 | D071N | 34 | D205N | 55 | D325N | 76 | D462N | 97  | D664N |
| 14 | D072N | 35 | D212N | 56 | D331N | 77 | D464N | 98  | D703N |
| 15 | D073N | 36 | D223N | 57 | D332N | 78 | D465N | 99  | D712N |
| 16 | D074N | 37 | D225N | 58 | D343N | 79 | D466N | 100 | D723N |
| 17 | D114N | 38 | D226N | 59 | D346N | 80 | D503N | 101 | D731N |
| 18 | D115N | 39 | D243N | 60 | D351N | 81 | D506N | 102 | D732N |
| 19 | D116N | 40 | D244N | 61 | D356N | 82 | D516N | 103 | D734N |
| 20 | D122N | 41 | D245N | 62 | D364N | 83 | D523N | 104 | D743N |
| 21 | D125N | 42 | D246N | 63 | D365N | 84 | D526N | 105 | D754N |

| N°  | Code  | N°  | Code  | N° | Code  | N° | Code  | N° | Code  |
|-----|-------|-----|-------|----|-------|----|-------|----|-------|
| 106 | D023I | 127 | D131I |    | D251I |    | D371I |    | D532I |
| 107 | D025I | 128 | D132I |    | D252I |    | D411I |    | D546I |
| 108 | D026I | 129 | D134I |    | D255I |    | D412I |    | D565I |
| 109 | D031I | 130 | D143I |    | D261I |    | D413I |    | D606I |
| 110 | D032I | 131 | D145I |    | D263I |    | D423I |    | D612I |
| 111 | D036I | 132 | D152I |    | D265I |    | D431I |    | D624I |
| 112 | D043I | 133 | D155I |    | D266I |    | D432I |    | D627I |
| 113 | D047I | 134 | D156I |    | D271I |    | D445I |    | D631I |
| 114 | D051I | 135 | D162I |    | D274I |    | D446I |    | D632I |
| 115 | D053I | 136 | D165I |    | D306I |    | D452I |    | D645I |
| 116 | D054I | 137 | D172I |    | D311I |    | D454I |    | D654I |
| 117 | D065I |     | D174I |    | D315I |    | D455I |    | D662I |
| 118 | D071I |     | D205I |    | D325I |    | D462I |    | D664I |
| 119 | D072I |     | D212I |    | D331I |    | D464I |    | D703I |
| 120 | D073I |     | D223I |    | D332I |    | D465I |    | D712I |
| 121 | D074I |     | D225I |    | D343I |    | D466I |    | D723I |
| 122 | D114I |     | D226I |    | D346I |    | D503I |    | D731I |
| 123 | D115I |     | D243I |    | D351I |    | D506I |    | D732I |
| 124 | D116I |     | D244I |    | D356I |    | D516I |    | D734I |
| 125 | D122I |     | D245I |    | D364I |    | D523I |    | D743I |
| 126 | D125I |     | D246I |    | D365I |    | D526I |    | D754I |

Note: digits in the 'N°' column are shortcuts

# CHIRP Programming Reference

## Jim Unroe - KC9HI

### 14-January-2013

(send comments, suggestions or corrections to [UV-5R@KC9HI.net](mailto:UV-5R@KC9HI.net))

| Column       | Values      | Description/Comment   | Requires               |
|--------------|-------------|---|------------------------|
| Loc          | see comment | This cell contains a fixed value (0-127) in each row representing each of the UV-5R's 128 channels  |                        |
| Frequency    | see comment | Used for setting the receive (RX) frequency (MHz)<br>VHF: 136.000000 to 173.997500<br>UHF: 400.000000 to 519.997500   |                        |
| Name         | see comment | Used for setting an optional alpha tag up to 7-characters<br>Alpha characters: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z<br>Numeric digits: 0 1 2 3 4 5 6 7 8 9<br>Special characters: ! @ # \$ % ^ & * ( ) + - = [ ] < > ? , . / |                        |
| Tone Mode    |             | Used for setting squelch using carrier squelch and/or CTCSS (aka PL) and/or DTS (aka DPL)   |                        |
|              | (none)      | No tones or codes are transmitted or received (default)   |                        |
|              | Tone        | The radio will use CTCSS for transmit. In this mode, the receiver is carrier squelch  | Tone                   |
|              | TSQL        | The radio will use CTCSS for transmit. In this mode, the receiver is CTCSS with the same value as the transmitter   | ToneSql                |
|              | DTCS        | The radio will use DCS for transmit. In this mode, the receiver uses DCS with the same value as the transmitter   | DTCS Code and DTCS Pol |
|              | Cross       | The radio will use an asymmetric squelch configuration according to the value of 'Cross Mode'   | Cross Mode             |
| Tone         |             | Sets the transmit CTCSS frequency. Only used when enabled by other options  |                        |
| ToneSql      |             | Sets the receive (and sometimes transmit) CTCSS frequency. Only used when enabled by other options [UV-5R bug: receive tone frequencies of 136.5 Hz and lower will always be skipped when scanning regardless of the Skip setting]          |                        |
| DTCS Code    |             | Sets the transmit DCS code. Only used when enabled by other options   |                        |
| DTCS Rx Code |             | Sets the receive (and sometimes transmit) DCS code. Only used when enabled by other options   |                        |
| DTCS Pol     |             | Sets the DCS code polarity. Only used when enabled by other options   |                        |
|              | NN          | Transmit normal/Receive normal  |                        |
|              | RN          | Transmit reversed/Receive normal  |                        |
|              | NR          | Transmit normal/Receive reversed  |                        |
|              | RR          | Transmit reversed/Receive reversed  |                        |

# CHIRP Programming Reference

## Jim Unroe - KC9HI

### 14-January-2013

(send comments, suggestions or corrections to UV-5R@KC9HI.net)

| Column     | Values                             | Description/Comment   | Requires                                       |
|------------|------------------------------------|---|--|
| Cross Mode |                                    | Used for setting squelch using carrier squelch and/or CTCSS (aka PL) and/or DTS (aka DPL). Only used when enabled by other options                                | Tone Mode=Cross                                |
|            | Tone->Tone                         | The radio will use CTCSS for transmit and a different CTCSS for receive   | Tone (TX) and ToneSql (RX)                     |
|            | Tone->DTCS                         | The radio will use CTCSS for transmit and DCS for receive   | Tone (TX), DTCS Rx Code (RX) and DTCS Pol      |
|            | DTCS->Tone                         | The radio will use DCS for transmit and CTCSS for receive   | DTCS Code (TX), DTCS Pol and ToneSql (RX)      |
|            | ->Tone                             | The radio will not transmit CTCSS or DCS but will enable CTCSS for receive  | ToneSql (RX)                                   |
|            | ->DTCS                             | The radio will not transmit CTCSS or DCS but will enable DCS for receive  | DTCS Rx Code (RX) and DTCS Pol                 |
|            | DTCS->                             | The radio will use DCS for transmit. In this mode, the receiver is carrier squelch  | DTCS Code (TX) and DTCS Pol                    |
|            | DTCS->DTCS                         | The radio will use DCS for transmit and a different DCS for receive   | DTCS Code (TX), DTCS Rx Code (RX) and DTCS Pol |
| Duplex     |                                    | Used for determining the transmit (TX) frequency  |  |
|            | (none)                             | Simplex. Sets the transmit frequency to the same value as the receive frequency (aka simplex)   |  |
|            | -                                  | Sets the transmit frequency lower than the receive frequency by the Offset amount (aka - duplex)  | Offset   |
|            | +                                  | Sets the transmit frequency higher than the receive frequency by the Offset amount (aka + duplex)   | Offset   |
|            | split                              | Sets the transmit frequency to the value in Offset (same value range as the receive frequency)  | Offset (entered as transmit frequency)         |
| off        | Receive only (transmit inhibited). |   |  |
| Offset     |                                    | Used for setting the transmit frequency difference (offset) from the receive frequency. When Duplex is set to 'split' this value is the actual transmit frequency |  |
| Mode       |                                    | Sets the transmitter deviation and receiver IF bandwidth  |  |
|            | FM                                 | 5KHz deviation (for Part 97 - Amateur Radio Service)  |  |
|            | NFM                                | 2.5KHz deviation (for Part 90 - Private Land Mobile Radio Services)   |  |
| Power      |                                    | Sets the transmit output power level  |  |
|            | High                               | 4 watts   |  |
|            | Low                                | 1 watt  |  |
| Skip       |                                    | Sets the channel scan lockout   |  |
|            |                                    | Scan channel in scanning mode   |  |
|            | S                                  | Skip (lockout) channel in scanning mode   |  |