

# 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) VHF: 136.000000 to 173.997500 UHF: 400.000000 to 519.997500	
Name	see comment	Used for setting an optional alpha tag up to 7-characters 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 Numeric digits: 0 1 2 3 4 5 6 7 8 9 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	

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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	