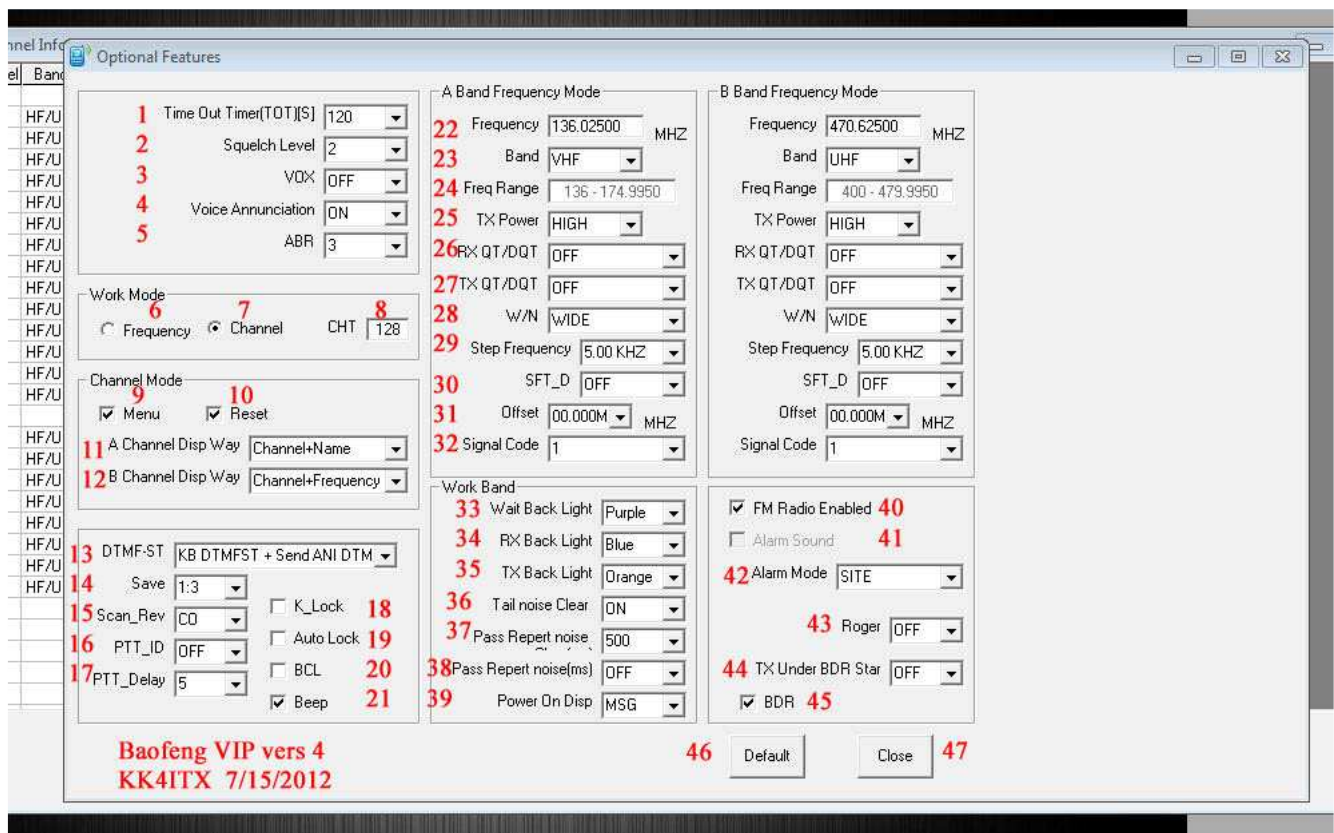# Baofeng UV-5R
Programming VIP Software Guide
John Leahy

Optional Features

Be advised that this is a work in progress and is intended for U.S.A. Ham operation. Any other use may require adjustments based on your needs and or restrictions. Use of this guide is of course at your own peril. If you find errors (entirely possible) or have additions, better explanations or comments please contact me at KK4ITX@arrl.net.

The Baofeng VIP Software Optional Features Screen as accessed through the EDIT dropdown menu .

Ref#	Radio Menu or **Button**	Heading Above Picture	Range	Use	Notes
1	9 **TOT**	Time Out Timer	15 - 600	This feature shuts down the transmitter after the selected time (in seconds).	Prevents overheating and extended accidental transmitting
2	0 **SQL**	Squelch Level	0 - 9	Keeps weak signals from opening up the audio out.	Reports are that this feature does not work.
3	4	VOX	Off 1-10	Allows hands free	Use with care.

				operation. Off is off (1) Sensitive (10) Least Sensitive	Could cause embarrassing TX.
VOX					
4	14 **VOICE**	Voice Annunciation	On or Off	China Girl tells you what key you have pressed. Newer units appear to have English voice.	Actually helps our blind Hams and gives us a chuckle.
5	6 **ABR**	ABR	Off 1-5	Sets the amount of time in seconds (?) that the screen remains lit after a key press, RX or TX.	It is a battery saving feature. Almost works.
Work Mode (sets the start up condition each time the unit is turned on.)					
6	**VFO/MR**	Frequency	Select/Not	Sets the unit so that it boots up in the Frequency Mode.	Matter of preference
7	**VFO/MR**	Channel	Select/Not	Sets the unit so that it boots up in the Channel Mode.	Matter of preference
8	None	CHT	1-128 (Ch# 0 = 1)	Sets the end number of the Channel List (-1) displayed in software.	Not much use.
Channel Mode (sets the start up condition each time the unit is turned on.)					
9	None	Menu	Select/Not Select=Enabled Unselect=Disable	Enable (x)/Disable ( ) Menu Button on radio is disabled. Keylock, Scan and # keys function.	Keeps folks away from settings as none of the Menus can be accessed.
10	40 **RESET**	Reset	Select/Not Select=Enabled Unselect=Disable	Enable (x)/Disable ( ) Resets some options to program at startup. Check Disable to prevent a Reset from the keyboard.	Not sure why you would not choose to Disable as doing so renders Menu#40 moot.
11	21 **MDF-A**	"A" Channel Display Way	Channel Channel_+_Name Channel_+_Freq	Select your preference	Handy to have Ch + Name in one and Ch + Freq in other.
12	22 **MDF-B**	"B" Channel Display Way	Channel Channel_+_Name Channel_+_Freq	Select your preference	Handy to have Ch + Name in one and Ch + Freq in other.
13	16 **DTMFST**	DTMF-ST	Off All KB DTMF Side Tone Send ANI DTMF ST	Sends DTMF side tones. Setting determines if/when tones are echoed to	Prefer = **KB DTMFST + Send ANI DTMFST**

				the speaker. Used to bring up an autopatch & dialing a phone#.	
14	3 **SAVE**	Save	Off 1:1, 1:2, 1:3,1:4	Intended to prolong battery charge by delaying wake-up.	You may miss first parts of a reception.
15	18 **SC-REV**	Scan_Rev	TO/SO/CE	Sets delay on scanning. (TO)=Preset Time, starts automatically (CO)=Carrier present auto startup (SE)=Stops on carrier, manual restart.	See Page 14 in manual. (TO) is not of much use. (CO) & (SE) most useful.
16	19 **PTT-ID**	PTT_ID	OFF/BOT/EOT/BOTH	Determines if and when to send the programmed ID of this radio.	No known Ham use. Receiving unit would have to be able to decode ID tones.
17	20 **PTT-LT**	PTT_Delay	0-30ms	Delays sending of ID to allow the receiving unit time to listen.	See Above Note in #16.
18	**# Key**	K_Lock	Selected or Not	Sets Key Lock to On when unit is first powered up.	Once the unit keypad has been unlocked it needs to be re-locked by the key pad.
19	**# Key**	Auto Lock	Selected or Not	After a short time the unit beeps and the Keypad locks. Requires an Unlock.	Keeps from hitting keys in error.
20	23 **BCL**	BCL	Selected or Not	When in use will prevent talking on a busy frequency.	May help to prevent "doubling"
21	8 **BEEP**	Beep	OFF/ON with Check Box	Key pad beeps on key press.	Great for confirmation, bad if you are going stealth.

Items 22-32 are used for Frequency modes on both A&B "bands" of VHF/UHF All settings can/will be overwritten by the Keypad, they will not be reset to these values until the next download from the software. ☹

22	None	Frequency	Enter the Start Frequency for Freq Mode only.	Must be between: 136 – 174.9950 VHF 400 – 479.9950 UHF	It's a place to start if you were going to just scan an area.
23	**33 BAND**	Band	Selects VHF/UHF	Can be changed using the Band key.	

24	None	Freq Range	No Options FYI Only	FYI only.	Can be changed using the "Other" menu in VIP version.
25	2 **TXP**	TX Power	High/Low	Fixes the power at desired levels.	Good practice to start on Low.
26	10 / 11 **R-DCS R-CTS**	RX/QT/DQT	OFF/D023N-D7541 OFF/60.0 -259.9	Sets the RX tones to open the receiver.	Usually left to OFF unless a noisy/busy area.
27	12 / 13 **T-DCS T-CTS**	TX/QT/DQT	OFF/D023N-D7541 OFF/60.0 -259.9	Sets the TX tones to open the receiver on the repeater.	Unless your area uses the same tones set to OFF
28	5 **W/N**	W/N	WIDE/NARROR (W)	Sets the bandwidth	Most Ham use is WIDE.
29	1 **STEP**	Step Frequency	2.5/5/6.25/10/12.5/25khz	Sets the space between frequencies scanned whether by Up/Dn arrows or the scan function (*).	5khz is the normal for US.
30	25 **SFT-D**	SFT_D	OFF/+/-	Sets the direction of any shift in TX vs RX	Repeater dependent
31	26 **OFFSET**	Offset	00.00 – 99.950 00.00 -69.990 (manual)	Sets the amount of offset. In the US: VHF=.600 UHF=5.00	Repeater dependent
32	None	Signal Code	1 -15	Special application to call certain radios only	Not Ham related.
Work Band					
33	29 **WT-LED**	Wait Back Lt	OFF/Blue/Orange/Purple	You get to choose your own colors !	See #5 above.
34	30 **RX-LED**	RX Back Lt	OFF/Blue/Orange/Purple	You get to choose your own colors !	See #5 above.
35	31 **TX-LED**	TX Back Lt	OFF/Blue/Orange/Purple	You get to choose your own colors !	See #5 above.
36	35 **STE**	Tail noise Clear	OFF/ON	Eliminates noise at end of transmission between units of the same breed using simplex.	Set to **OFF** when using repeaters, so leave it off.
37	36 **RP-STE**	Pass Repert Noise	OFF/100….1000 OFF/1..10 Manual	Eliminates noise at end of transmission between repeater & transceiver.	Set to **OFF** when using repeaters.
38	37 **RPT-RL**	Pass Repert Noise (ms)	OFF/100….1000 OFF/1..10 Manual	Delays the tone by the setting. See #37.	Set to **OFF** when using repeaters.
39	38 **PONMGS**	Power On Disp	Full/MSG	**Full** is a power-on LCD test. **MSG** allows for your custom sign on.	Gives a brief sense of accomplishment & checks LCD.

40	None	FM Radio Enabled	On/Off Check Box	Controls the ability to tune FM broadcast.	
41	None	Alarm Sound	Check box to hear. Leave unchecked to not hear it.	Allows local hearing of the alarm or not.	See #42 Note: The alarm can not be disabled.
42	32 **AL-MOD**	Alarm Mode	Site/Tone/Code	Sets method of alarm. **Site**= Only you hear it, nothing broadcast. Tone= Siren Code=ID Code +	Nothing will disable this "Feature" Choose Site and only you will hear it/
43	39 **ROGER**	Roger	OFF/ON	Roger Beep	Not often used.
44	34 **TX-AB**	TX Under BDR Star	OFF/A Band/B Band	When in Dual Watch Mode #45, determines freq. to transmit on.	Off= last active Channel. A or B selects the TX band
45	7 **TDR**	BDR	Check = On	Dual watch/receive of 2 channels.	Doubles your fun !
46	None	Default	Click On	Returns to Factory Settings	
47	None	Close	Click On	Returns to Freq. List	