BAOFENG UV-82X3 Programming Guide

INTRODUCTION

BAOFENG UV-82X3 is a Tri-band (VHF, UHF, 220MHz) versatile amateur radio with dual PTT. It offers 128 channels, you can add or remove channels from scanning list and give channels alphanumeric names via programming with a computer, full accessory compatibility with all UV-82 accessories. With the enhanced capabilities of the UV-82X3 radio, this Programming Guide will help users get a quick start to program the radio.

Contents

1. Cable Driver Installation

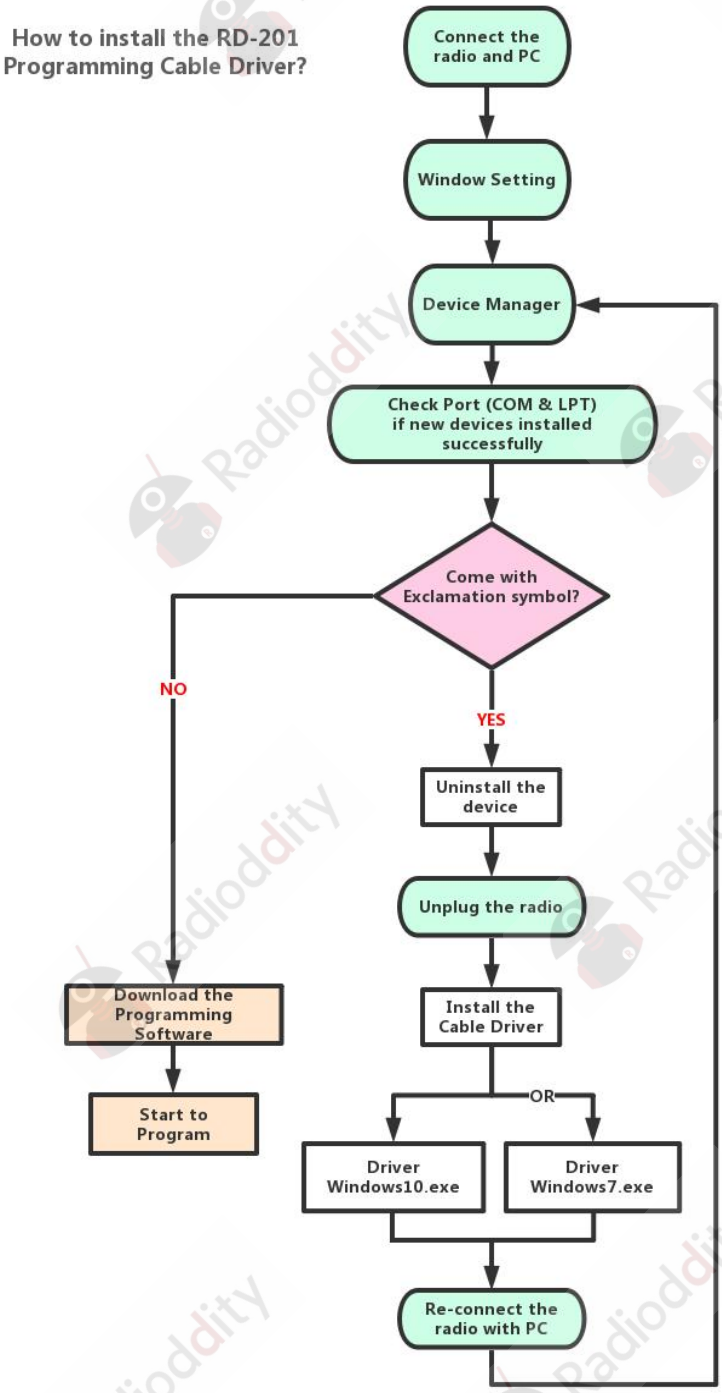
2-Pin K connector programming cable (Package included)

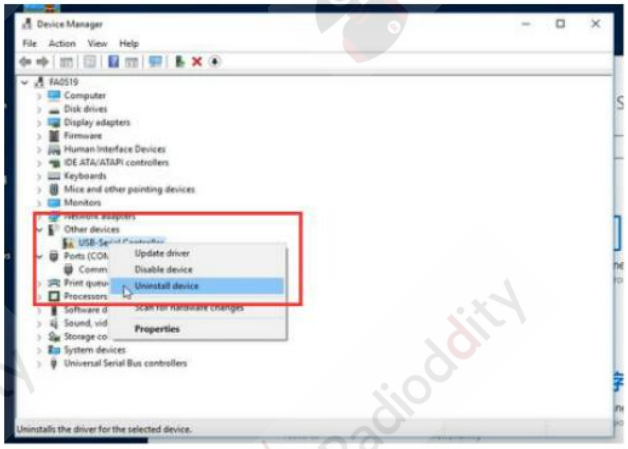
Compatible System:

Latest Window system (i.e. Windows 7, Windows 10)

Cable Driver and Guideline:

Download the corresponding driver which match your computer system (Win7/Win10). They are

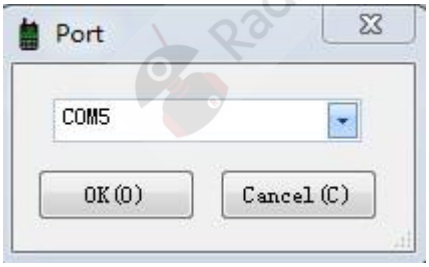




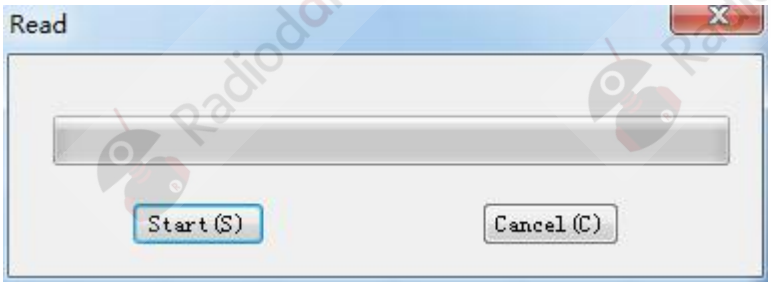
available on the support section of radioddity.com.

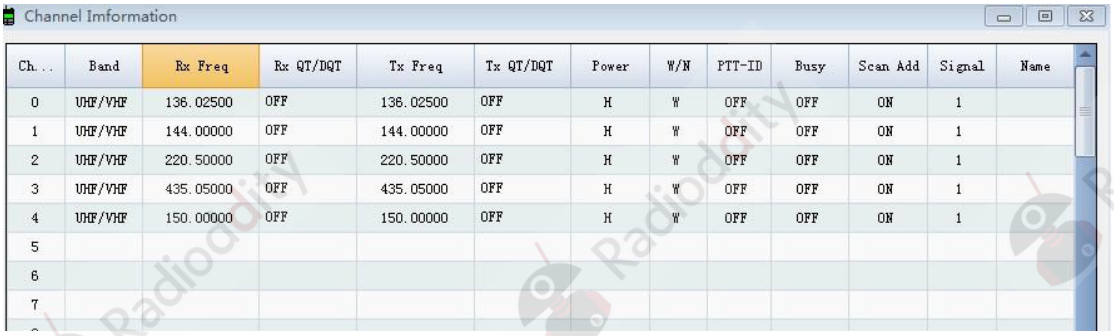
2. Radio Reading

Download and open the UV-82X3 programming software, click Port under Setting menu, select the corresponding port number, then click “OK”.



Read the current information from the radio to your PC to create an initial program template. Press Program and select Read Data From Radio (or click the button), and click Start button to start reading the radio.





Ch. . .	Band	Rx Freq	Rx QT/DQT	Tx Freq	Tx QT/DQT	Power	W/N	PTT-ID	Busy	Scan Add	Signal	Name
0	UHF/VHF	136.02500	OFF	136.02500	OFF	H	W	OFF	OFF	ON	1	
1	UHF/VHF	144.00000	OFF	144.00000	OFF	H	W	OFF	OFF	ON	1	
2	UHF/VHF	220.50000	OFF	220.50000	OFF	H	W	OFF	OFF	ON	1	
3	UHF/VHF	435.05000	OFF	435.05000	OFF	H	W	OFF	OFF	ON	1	
4	UHF/VHF	150.00000	OFF	150.00000	OFF	H	W	OFF	OFF	ON	1	
5												
6												
7												

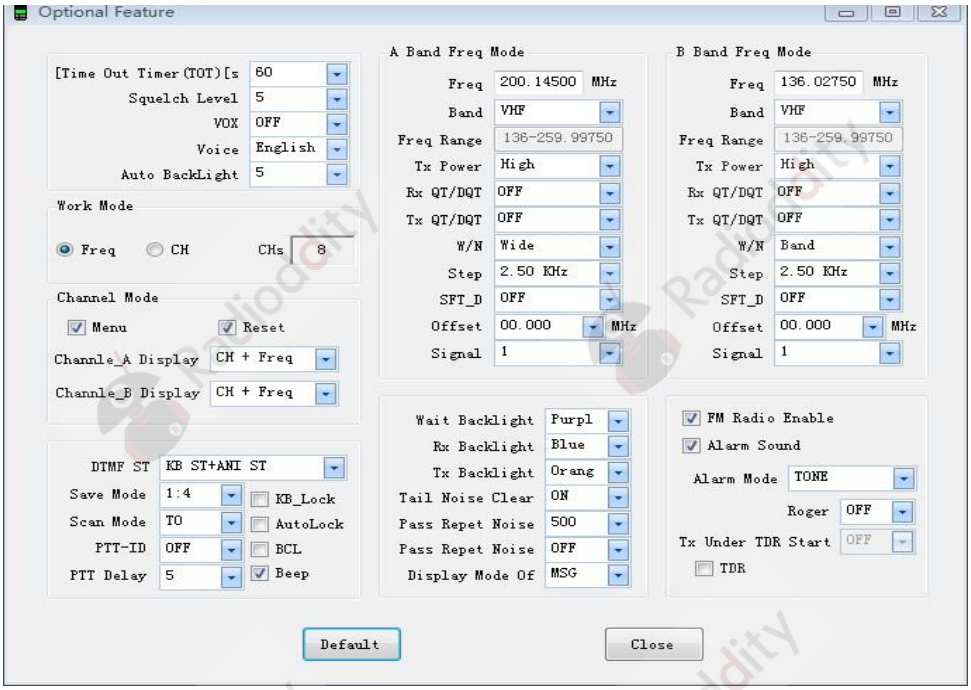
3. Channel Information

The UV-82X3 radio has 128 channels, you can edit the channel number and channel information according to your needs. The following is an introduction to each term.

Name	Meaning	Setting	Description
RX Freq	Receiving frequency	VHF:136-174/200-260MHz UHF:400-520MHz	
TX Freq	Transmitting frequency	VHF:136-174/200-260MHz UHF:400-520MHz	
RX QT/DQT	Receiving CTCSS/DCS	Refer to the DCS table and CTCSS table in the manual.	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.
TX QT/DQT	Transmitting CTCSS/DCS	Refer to the DCS table and CTCSS table in the manual.	Transmits a specific low-level digital signal to unlock the squelch of a distant receiver (usually a repeater).
POWER	Transmit power	HIGH/LOW	High power:4W LOW：1W
W/N	Channel bandwidth	WIDE/NARROW	Wideband (25 kHz bandwidth) or narrowband (12.5 kHz bandwidth). (Note: Wideband is unavailable in UV-82X3)
PTT-ID	When to send the PTT-ID	**OFF** does not send code; **BOT** press PTT button to send code; **EOT** release PTT button to send code; **BOTH** press and release PTT button to send code	Codes are sent during either the beginning or end of a transmission.
Busy	Busy Channel Lockout	OFF/ON	**ON**: If the channel is occupied, when you press the [PTT] key on this channel, the radio will make a beep tone and will not transmit any signal. **OFF**: No matter if the channel is occupied, the radio will transmit the signal when you press the [PTT] key.
Scan add		OFF/ON	In the scan mode, whether add the channel to the scan list. **ON**: the channel is added to scan list; **OFF**: the channel cannot be scanned.
Signal	Signal code	1-15	Selects 1 of 15 DTMF codes. The DTMF codes are programmed with software and are up to 5 digits each

4. Optional Feature

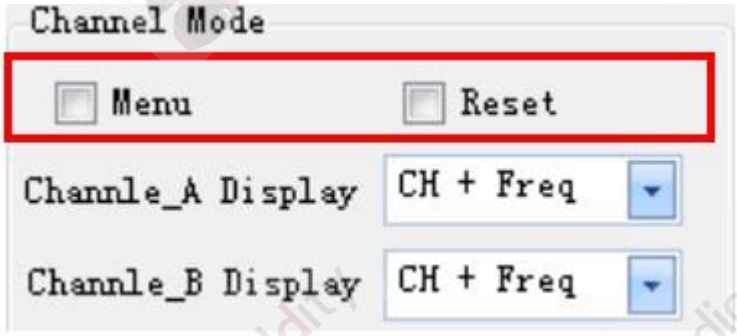
Select Optional Feature under Edit menu, you can set more functions for the radio.



1) Basic Setting

Name	Meaning	Settings	Description
TOT	Transmission time-out timer	15-600(s)	This feature provides a limits transmission time to a programmed value. This will promote battery conservation by not allowing you to make excessively long-time transmissions and in the event of a stuck PTT switch, it can prevent interference to other users as well as battery depletion.
Squelch Level		0-9	Mutes the speaker of the transceiver in the absence of a strong signal. Squelch is either OFF or 1 - 9 levels. The higher level, the stronger the signal must be to in-mute the speaker.
VOX	Voice operated TX	0-10	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.
Voice	Voice prompt	OFF/Chinese/English	Allows audible voice confirmation of a key press
Auto backlight	Display time	OFF/0-10 (s)	Time-out for the LCD backlight.
Work mode		Frequency mode	CHs is channel quantity
		Channel mode	

2) Channel Mode



If you want to access the Menu/Reset on the radio, you must select Menu/Reset (in the red box). If menu is not selected, the menu cannot be accessed in channel mode, and the menu button does not respond. You can customize the display on Channel A/B:

CH: Only display show Channel Number
CH + Name: Display Channel Number and Channel Name (Name column in Channel information part)
CH + Freq: Display Channel Number and Frequency

3) **DTMF**

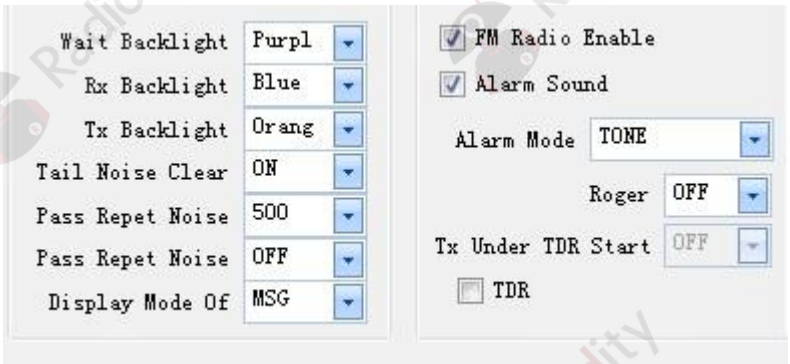
Name	Setting	Description
DTMF ST (DTMF side tone of transmit code)	**OFF**: No DTMF Side Tones are heard	Determines when DTMF side tones can be heard from the transceiver speaker
	DT-ST: Side Tones are heard only from manually keyed DTMF codes	
	ANI-ST: Side Tones are heard only from automatically keyed DTMF codes	
	DT+ANI: All DTMF Side Tones are heard	
Save mode	OFF/1:1/1:2/1:3/1:4	Selects the ratio of sleep cycles to awake cycles (1:1, 2:1, 3:1, 4:1). The higher number the longer the battery lasts. When enabled, a word or two might be missed when the frequency being monitored becomes active.
Scan mode	**TO:** Time Operation - scanning will resume after a fixed time has passed	Scanning Resume Method
	CO: Carrier Operation -Scanning Resume Method scanning will resume after the signal disappears	
	SE: Search Operation scanning will not resume	
PTT_ID	**OFF**: No ID is sent	When to Send PTT-ID; Codes are sent during either the beginning or end of a transmission.
	BOT: The selected S-CODE is sent at the beginning	
	EOT: The selected S-CODE is sent at the ending	
	BOTH: The selected SCODE is sent at the beginning and ending	
PTT Delay	0-50ms	Signal code sending delay
KB_LOCK		If you select this option, the keyboard is locked.
AutoLock (automatic keypad lock)		When ON, the keypad will be locked if not used in 8 seconds. Pressing the [#╥O] key for 2 seconds will unlock the keypad.
BCL(busy channel Lock-out)		**Check**: If the channel is occupied, when you press the [PTT] key on this channel, the radio will make a beep tone and will not transmit any signal. **Uncheck**: No matter if the channel is occupied, the radio will transmit the signal when you press the [PTT] key.
Beep(keypad beep)		Allows audible confirmation of a key press

4) Frequency mode

Select Band (VHF/UHF) before input the frequency you want,
STEP: Select the amount of frequency change in VFO/Frequency mode when scanning or pressing the keys.
SFT_D: Enable access of repeaters in VFO/Frequency Mode ([OFF]: TX = RX (simplex); [+]: TX will be shifted higher than RX in frequency; [-] : TX will be shifted lower than RX in frequency)
Offset: Specifies the difference between the TX and RX frequency
(For the explanation of TX Power, RX QT/DQT, TX QT/DQT, W/N, Signal, please refer to the section 3)

5) Backlight and Sound

Wait Backlight: Standby display backlight color. Off/Blue/Orange/Purple option, default color: Purple
Rx Backlight: Receive display backlight color. Off/Blue/Orange/Purple option, default color: Blue
Tx Backlight: Transmit display backlight color. Off/Blue/Orange/Purple option, default color: Orange
Tail Noise Clear: Squelch Tail elimination
Display Mode of: Behavior of the display when the radio is turned on (FULL: performs an LCD screen test when power-on; MSG: Display a 2-line power-on message)



6) FM Radio

FM Radio Enable: When you check off, FM Radio function will be activated on the radio.
Roger: Sends an end-of-transmission tone to indicate to other stations that the transmission has ended
TX Under TDR Start: Transmit selection while in Dual Watch mode, when enabled, priority is returned to selected display once the signal in the other display disappears.
TDR: Dual Watch mode, the ability to monitor two channels at once can be a valuable asset.

5. Write and Save

Press Program to select “Write Data To Radio”, or click the 

icon to write and save the setting to the radio.