BaoFeng BF-F8TD Programming Guide

INTRODUCTION

BaoFeng BF-F8TD is a dual-band (VHF, UHF) versatile amateur radio. It offers 128 channels, you can add or remove channels from scanning list and give channels alphanumeric names via programming with a computer. With the enhanced capabilities of the F8TD radio, this Programming Guide will help you get a quick start to program the radio.

*If you have any problem with the BF-F8TD radio using or programming, please don't hesitate to contact us via support: walkietalkiesoftware.com. Also visit our Facebook pages (TIDRADIO) for more help.It's always our honor to help.

Contents

Preparation before Programming

1. Computer System Requirements

Manufacture Programming Software Operating System: Windows 7, Windows 8 and Windows 10

CHIRP Programming Software Operating System: Windows 7\8\10, Windows 2000, Mac OS, Linux

2. Programming Cable(This package doesn't include program cable, and you need to order separately)

A.USB programming cable - The driver should be installed before programming.

1) Find the corresponding driver of the system.

2) Click install and wait for the installation succeed

B.If you use an FTDI cable, it does not need to be installed with a driver. You can just plug in and use directly.

1) If your computer did not automatically install the driver, you will need to update the driver to the latest driver

Download the latest FTDI driver at :https://ftdichip.com/drivers/vcp-drivers/

3. Software Download & Install

1) Turn on the computer, check if your computer system meets the requirements.

2) Download the manufacture software on walkietalkiesoftware.com or CHIRP software on https://chirp.danplanet.com/

3) Install the programming software

4. Connect your Walkie Talkie with Computer

1) Programming cable connects with the computer end.

2) Connect the other end of the cable with your walkie talkie.

3) When both ends have been connected, turn on your radio. Make sure it has

enough power during the programming procedure.

**ERROR: Failed to Connect to the transceiver (Radio)**

If it says it cannot connect to the radio - this means the cable is working but is not installed correctly into the radio.
**Items to Check:**
● Radio is turned on
● The cable is FULLY inserted (it can be deceiving but there is a double click)
● Hold the cable into the radio - some radios might not make contact without pressure
● A way to cheat - dampen the pins of the cable before pushing it into the radio. This will give a solid contact

5.How to choose your port?

1.Get into "Window Setting", then search "Device Manager".
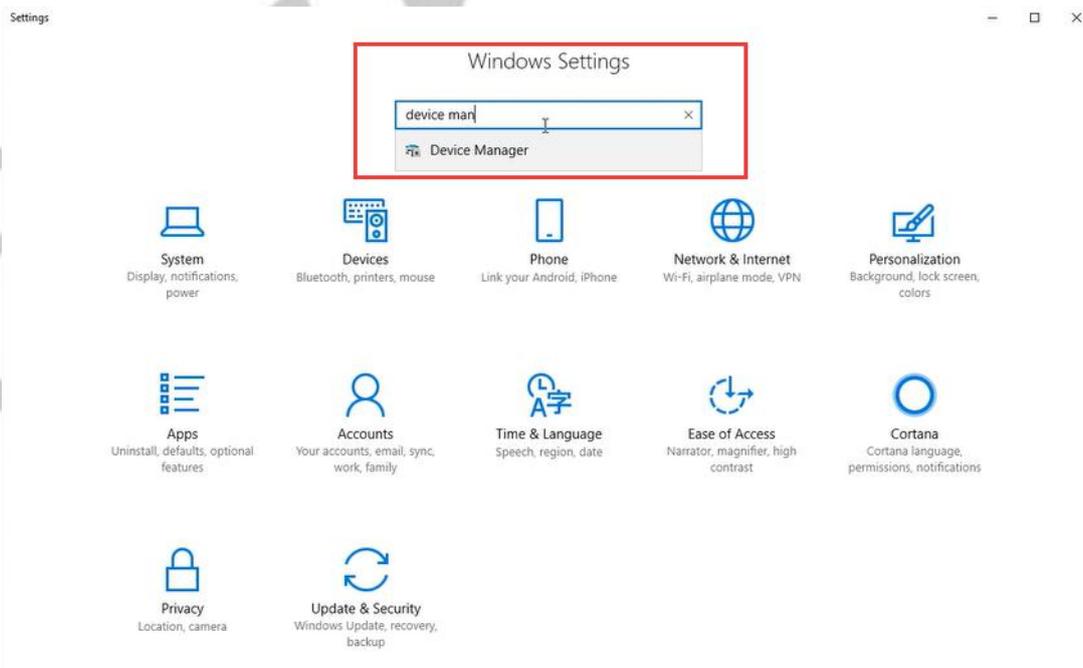
2.Open "Device Manager", and unfold Port (COM & LPT) to check the existing

port.
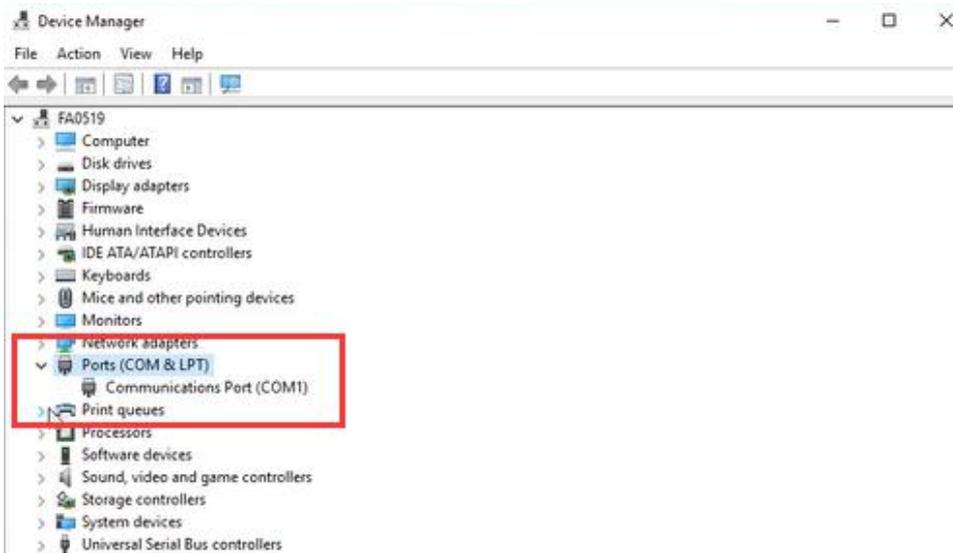
F8TD Manufacture Software Programming Process

1) Download and open the manufacture software. Click "Setting(S)→Port" and

then Confirm the port the same as the port viewed by Device Manager, then

click the "OK" button.
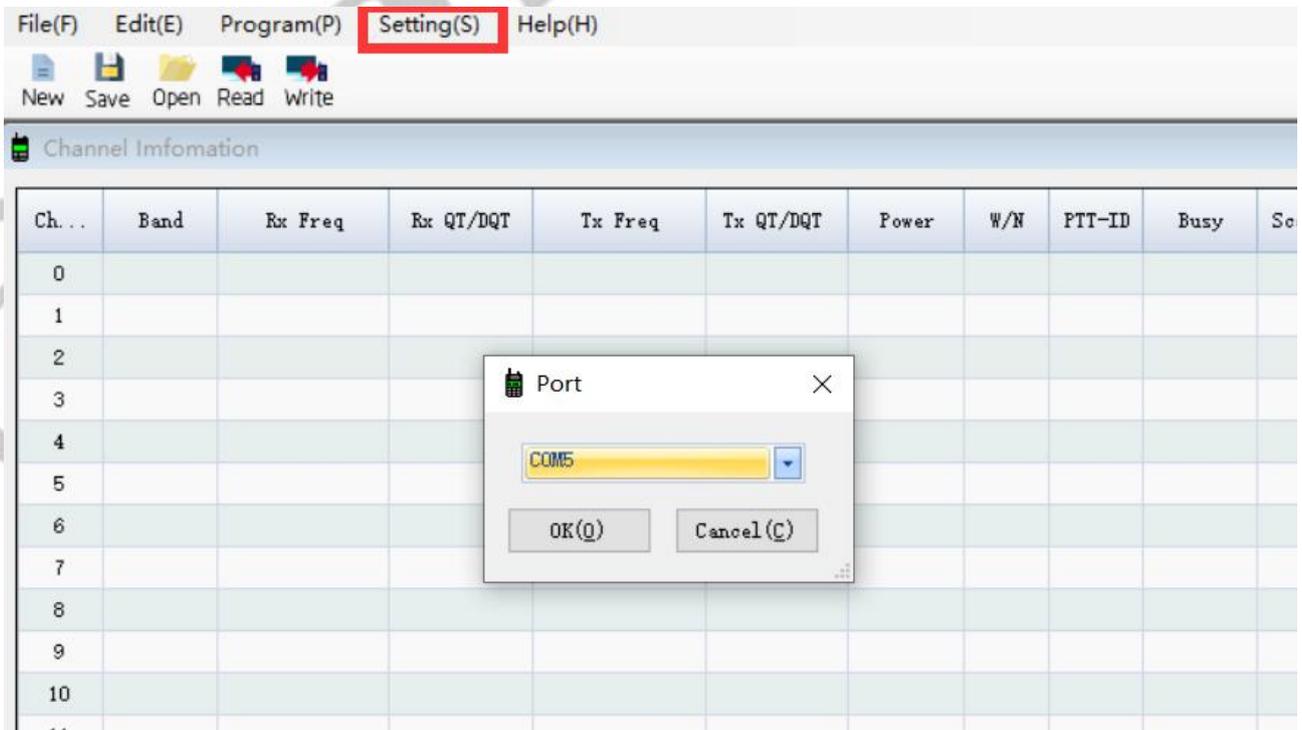
2) Click the "Read" button, then click "Start" and ready to read the data from your radio.(Make sure the radio is turned on)
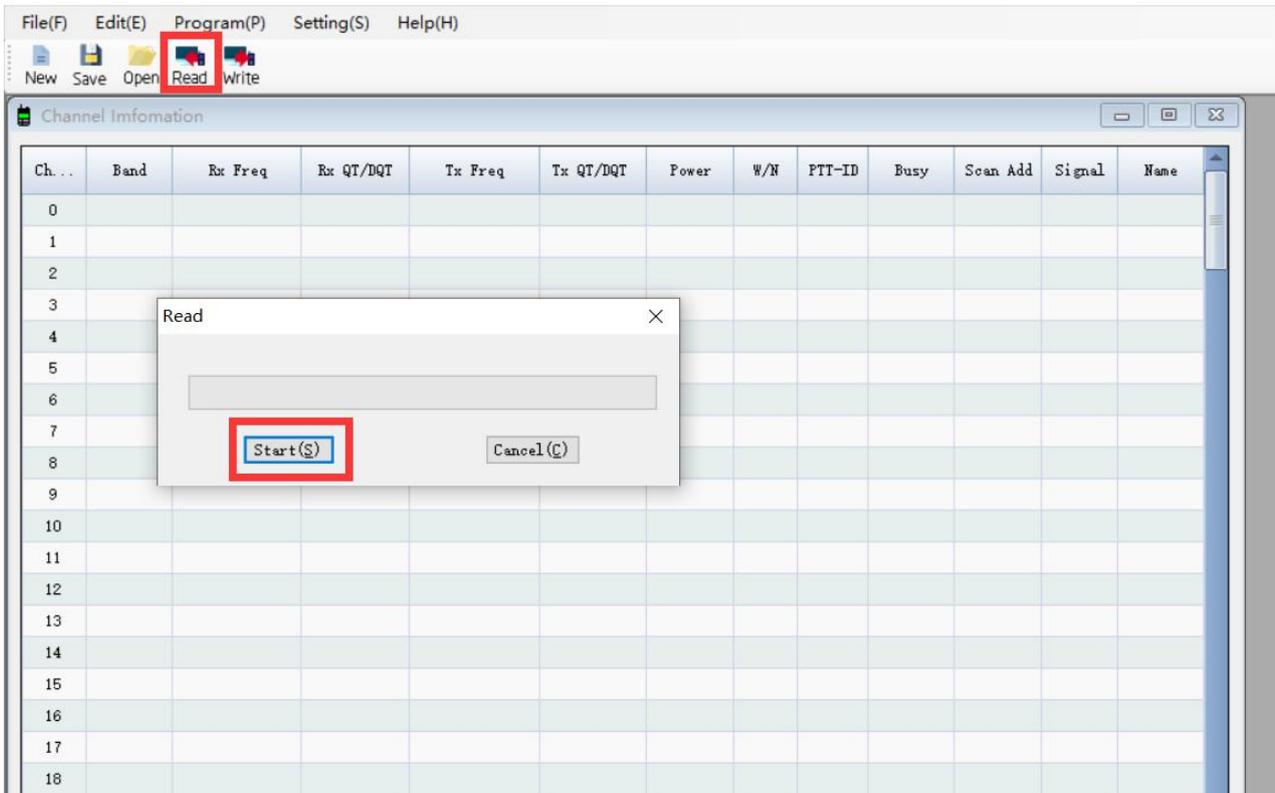
3) You will come to the parameter page and adjust the limited parameters (Channel, Band, RX Frequency, TX Frequency, CTCSS/DCS, Power, and Wide/Narrow, PTT-ID, etc).

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	462.62500	OFF	462.62500	OFF	H	W	OFF	OFF	ON	1	

Channel Information

The F8TD 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:136-174MHz UHF:400-520MHz	
TX Freq	Transmitting frequency	VHF:136-174MHz 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:8W Low power:1W
W/N	Channel bandwidth	WIDE/NARROW	Wideband (25kHz bandwidth) narrowband (12.5 kHz bandwidth).
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
Name	Customize channel name	Up to 10 digits.	Support alphanumeric channel name.

4) Click "Optional Features" under "Edit", a page of "Optional Features" will pop up, you can adjust the limited parameters (VOX Function, Squelch, Backlit, DTMF, FM Radio, Voice Prompt, Scanning, VFO Mode, etc.).
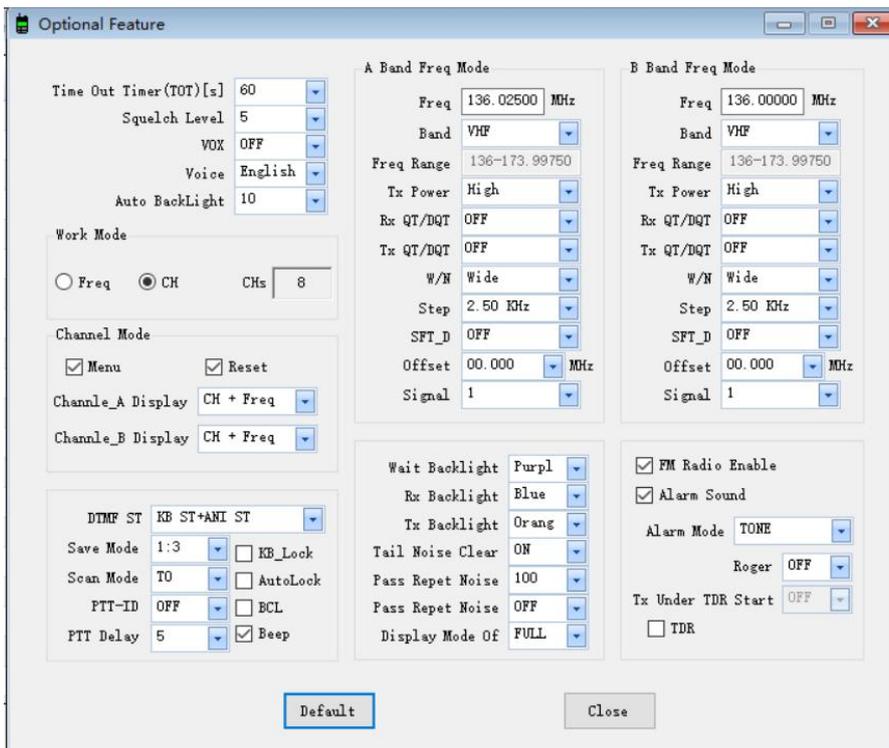
A.Basic Setting

Name	Meaning	Settings	Description
TOT(Time Out)	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 Annunciation		OFF\English\Chinese	Switch the language of menu display and voice prompts
ABR	Display time	OFF/0-5 (s)	Time-out for the LCD backlight.
Work mode		Frequency	CHs is channel quantity
		Channel	

B.Channel Mode

You can customize the display on Channel A/B:

CH: Display Channel Number

CH + Name: Display Channel Number and Channel Name (Name column in Channel information part)

CH + Freq: Display Channel Number and Frequency

C.DTMF
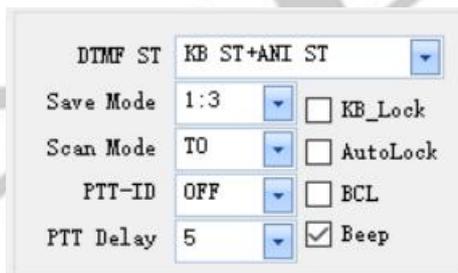
Name	Setting	Description
DTMF ST (DTMF side tone of transmit code)	**OFF ALL:** No DTMF Side Tones are heard	Determines when DTMF side tones can be heard from the transceiver speaker
	KB DTMF Side Tone: Side Tones are heard only from manually keyed DTMF codes	
	Send ANI DTMF Side Tone: Side Tones are heard only from automatically keyed DTMF	

	codes	
	KB DTMFST+Send ANI DTMFST: 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. 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	0-30ms	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

D.Frequency mode

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 introduction above)

A Band Freq Mode		B Band Freq Mode	
Freq	136.02500 MHz	Freq	136.00000 MHz
Band	VHF	Band	VHF
Freq Range	136-173.99750	Freq Range	136-173.99750
Tx Power	High	Tx Power	High
Rx QT/DQT	OFF	Rx QT/DQT	OFF
Tx QT/DQT	OFF	Tx QT/DQT	OFF
W/N	Wide	W/N	Wide
Step	2.50 KHz	Step	2.50 KHz
SFT_D	OFF	SFT_D	OFF
Offset	00.000 MHz	Offset	00.000 MHz
Signal	1	Signal	1

E.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 asse

☑ FM Radio Enable
☑ Alarm Sound
Alarm Mode TONE
Roger OFF
Tx Under TDR Start OFF
☐ TDR

5) Finally, all the modification will be saved by clicking the "Write" button, then clicking the "Start" button on the popup. And you can check the setting you modified after reboot the radio.

| Ch...	Band	Rx Freq	Rx QT/DQT	Tx Freq	Tx QT/DQT	Power	W/N	PTT-ID	Busy	Scan Add
0	UHF/VHF	136.02500	OFF	136.02500	OFF	H	W	OFF	OFF	ON
1	UHF/VHF	462.62500	OFF	462.62500	OFF	H	W	OFF	OFF	ON
2										
3										
4										
5										
6										
7										
8										
9										
10										
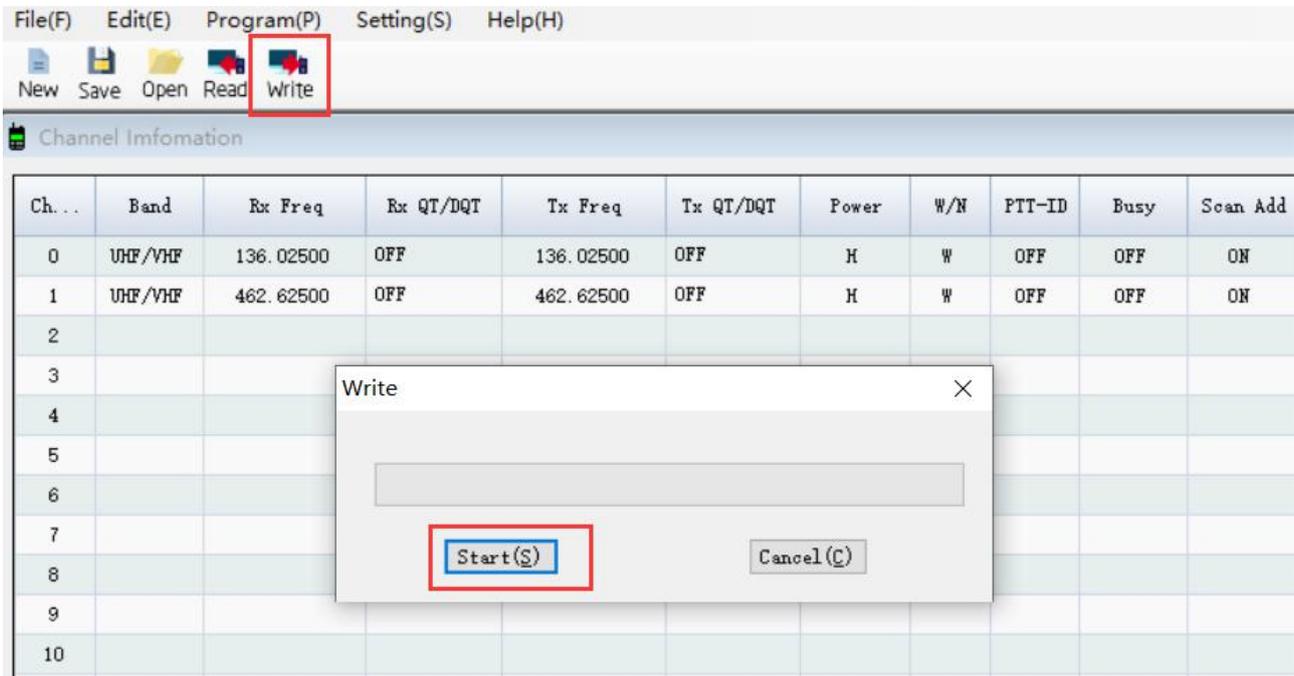
F8TD Chirp Software Programming Process

1) Open the CHIRP software (Latest Version), click "Download From Radio" under "Radio"
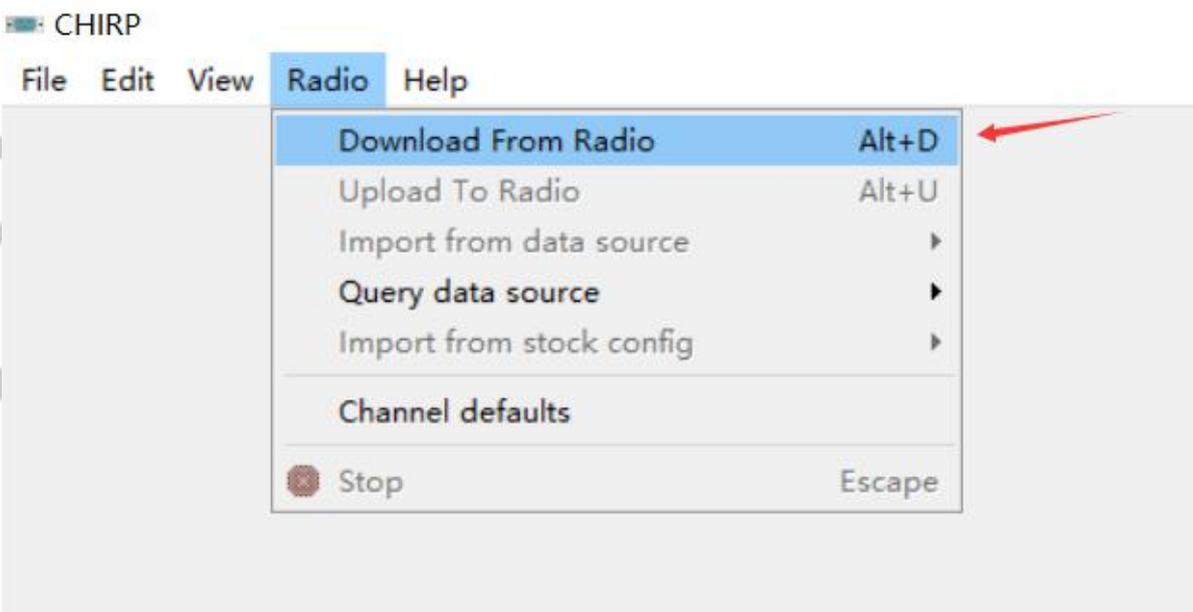
2) Select the corresponding cable driver port, and select Model "TD-UV5R TriPower" under Vendor "TIDRADIO", then click "OK" to read the radio
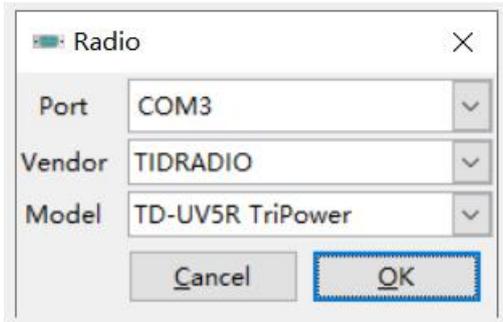

3) And you will come to the page of Memories, in which you can adjust the limited parameters (For the explanation of Channel, TX Frequency, RX Frequency, CTCSS/DCS, High/Low Power,and Wide/Narrow,Band.Please refer to introduction above)

Loc ▲	Frequency ◄	Name ◄	Tone Mode ◄	Tone ◄	ToneSql ◄	DTCS Code ◄	DTCS Rx Code ◄	DTCS Pol ◄	Cross Mode ◄	Duplex ◄	Offset ◄	Mode ◄	Power ◄	Skip
0	0.000000		(None)								(None)		FM	
1	452.125000	001	TSQL		69.3						(None)		FM	High
2	453.225000	002	TSQL		91.5						(None)		FM	High
3	454.325000	003	TSQL		136.5						(None)		FM	High
4	455.425000	004	TSQL		177.3						(None)		FM	High
5	456.625000	005	TSQL		210.7						(None)		FM	High
6	457.625000	006	TSQL		241.8						(None)		FM	High
7	458.725000	007	DTCS			025		NN			(None)		FM	High
8	459.825000	008	DTCS			134		NN			(None)		FM	High
9	461.925000	009	DTCS			274		NN			(None)		FM	High
10	462.225000	010	DTCS			346		NN			(None)		FM	High
11	463.325000	011	DTCS			503		NN			(None)		FM	High
12	464.425000	012	DTCS			073		RR			(None)		FM	High
13	465.525000	013	DTCS			703		RR			(None)		FM	High

4)Then if you switch to the page of Settings, you can adjust the limited parameters(For the explanation of VOX Function, Squelch, Backlit, DTMF, FM Radio, Voice Prompt, Scanning, VFO Mode.Please refer to introduction above)
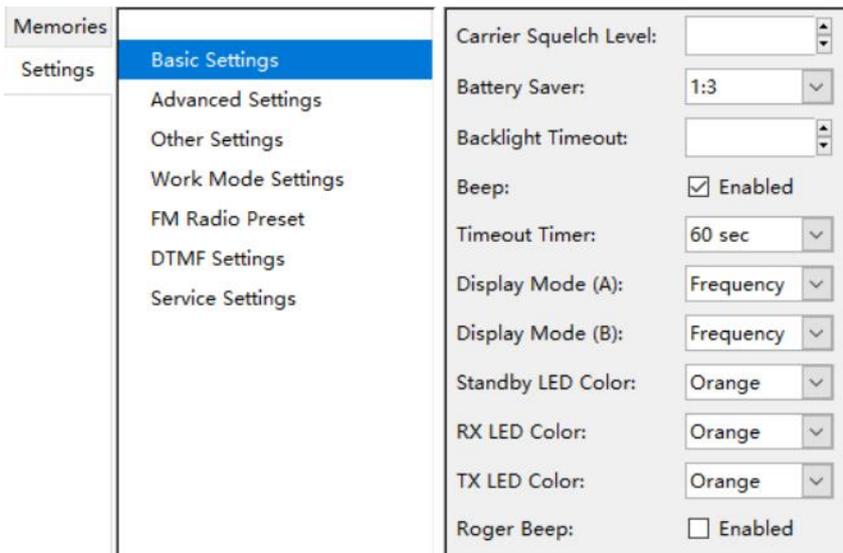
5) All the modification will be saved by clicking "Upload To Radio" under "Radio".

Then you can check the settings you modified after reboot the radio.
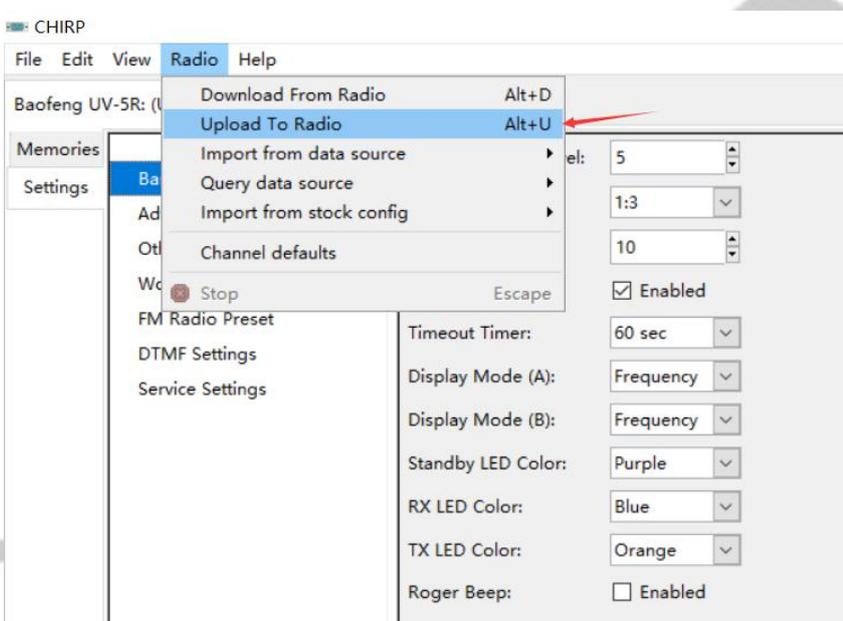
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