TIDRADIO TD-H5 Programming Guide

INTRODUCTION

TIDRADIO TD-H5 is a dual-band (VHF, UHF) gmrs radio. It offers 250 memory 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 H5 radio, this Programming Guide will help you get a quick start to program the radio.

*If you have any problem with the TD-H5 radio using or programming, please don't hesitate to contact us via support: walkietalkiesoftware.com. Also visit our Facebook home pages (TIDRADIO) for more help.It's always our honor to help.

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1. Frequency Chart

22 Modifiable GMRS Two Way Channels (Channels 1-22) - Receive and Transmit.

8 Modifiable GMRS Repeater Channels (Channels 23-30) - Receive and Transmit.

24 Modifiable Repeater Channels (Channels 31-54) - Receive and Transmit.

Appendix D. - GMRS Frequency Chart (MHz)

CH.No	CH.Freq.	Type of Radio	Power Output	CH.No	CH.Freq.	Type of Radio	Power Output
1	462.5625	GMRS	High	16	462.5750	GMRS	High
2	462.5875	GMRS	High	17	462.6000	GMRS	High
3	462.6125	GMRS	High	18	462.6250	GMRS	High
4	462.6375	GMRS	High	19	462.6500	GMRS	High
5	462.6625	GMRS	High	20	462.6750	GMRS	High
6	462.6875	GMRS	High	21	462.7000	GMRS	High
7	462.7125	GMRS	High	22	462.7250	GMRS	High
8	467.5625	FRS	Low	23	467.5500/462.5500	RPT	High
9	467.5875	FRS	Low	24	467.5750/462.5750	RPT	High
10	467.6125	FRS	Low	25	467.6000/462.6000	RPT	High
11	467.6375	FRS	Low	26	467.6250/462.6250	RPT	High
12	467.6625	FRS	Low	27	467.6500/462.6500	RPT	High
13	467.6875	FRS	Low	28	467.6750/462.6750	RPT	High
14	467.7125	FRS	Low	29	467.7000/462.7000	RPT	High
15	462.5500	GMRS	High	30	467.7250/462.7250	RPT	High

2. Preparation before Programming

2.1. Computer System Requirements

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

2.2. Programming Cable

A.CH340 USB programming cable is Included - The driver should be installed before programming.

Driver download link:walkietalkiesoftware.com

1) Find the corresponding driver of the system.

2) Click and wait for the download.

3) Click install and wait for the installation.

B. If you use an FTDI cable (not included) , it does not need to be installed with a driver.You can just plug in and use directly.(suitable for Mac os,Windows system) You can search B08CB5KT5M on Amazon to purchase a FTDI cable if you do not have one.

Product link:

https://www.amazon.com/TIDRADIO-Programming-BaoFeng-Retevis-Radioddi ty/dp/B08CB5KT5M/ref=sr_1_1?dchild=1&keywords=B08CB5KT5M&qid=16279 73909&sr=8-1

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/

2.3. Software Download & Install

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

2) Download the manufacture software on walkietalkiesoftware.com

3) Install the programming software

2.4. Connect your Walkie Talkie with Computer

1) USB 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

2.5.How to choose your port?

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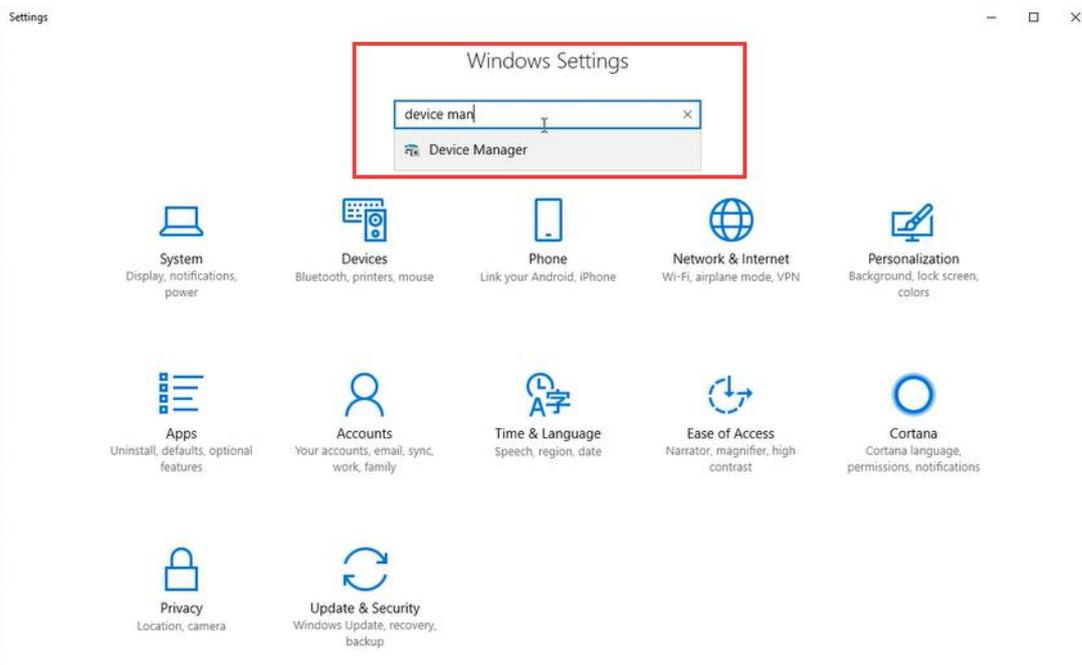
2)Open "Device Manager", and unfold Port (COM & LPT) to check the existing

port.
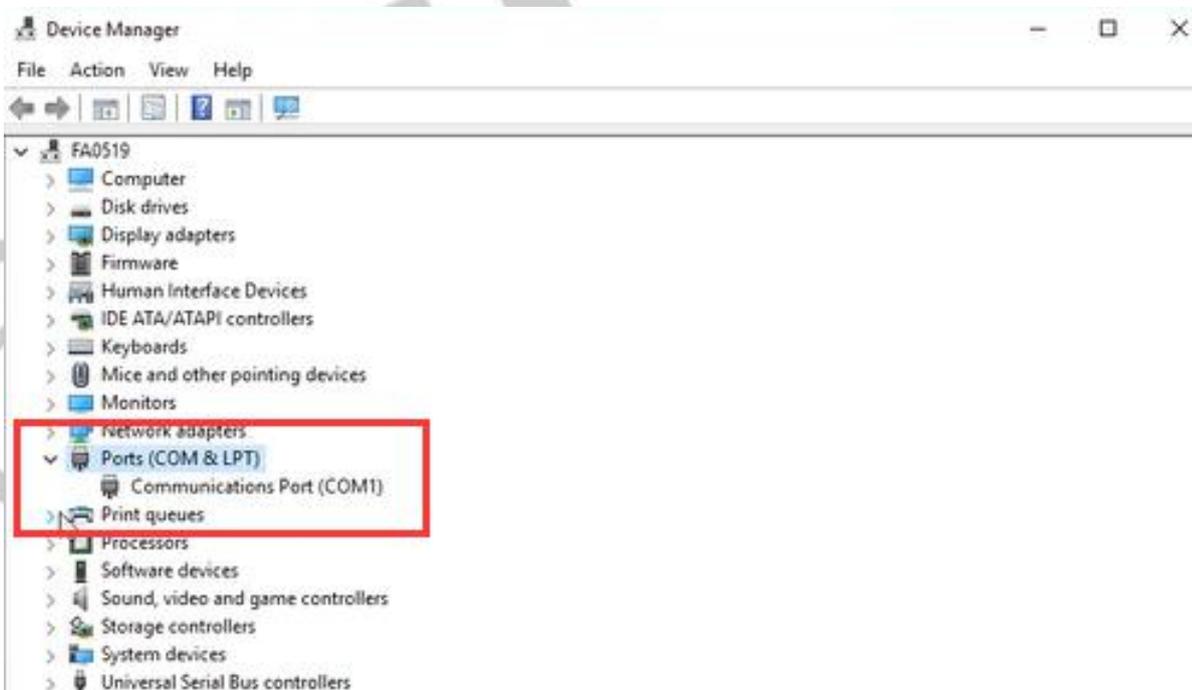
3)Come with CH340 programming cable port is **USB-SERIAL CH340 (COM?)**

4)FTDI programming cable port is **USB Serial Port (COM?)**

3.TD-H5 Manufacture Software Programming Process

1)Download and open the manufacture software. Click "Program →
Communication Port" and then Confirm the port the same as the port viewed by
Device Manager, then click the "OK" button.
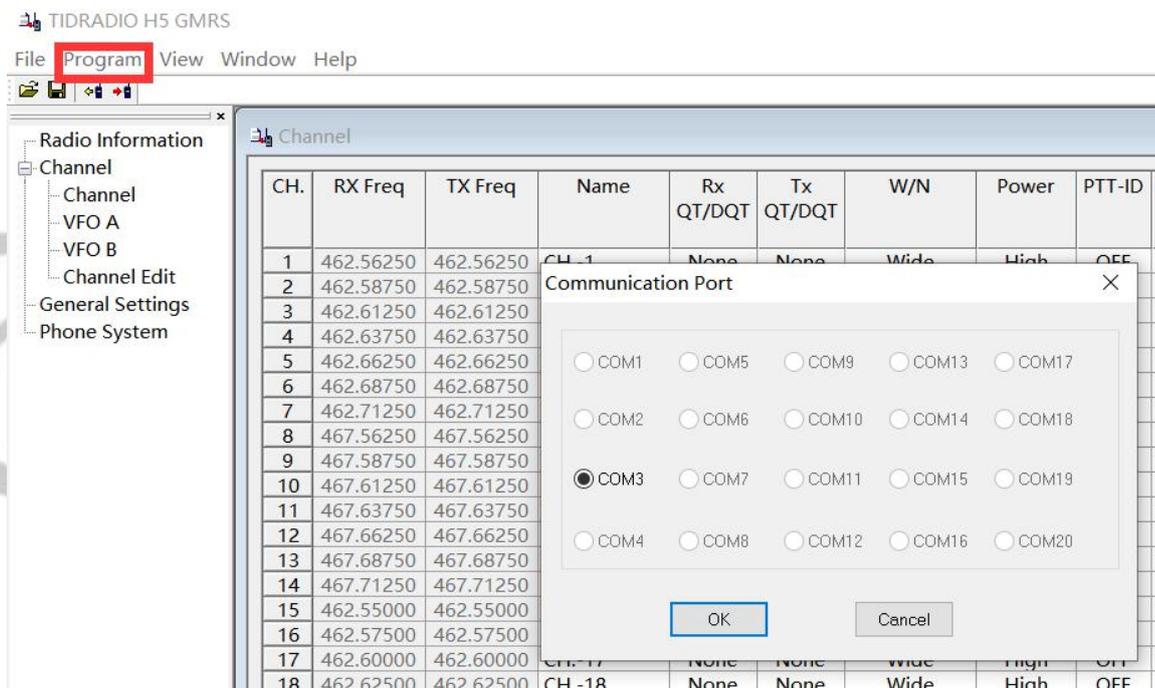
2) Click "Program→Read from Radio", then click "OK" and ready to read the data from your radio.(Make sure the radio is turned on)
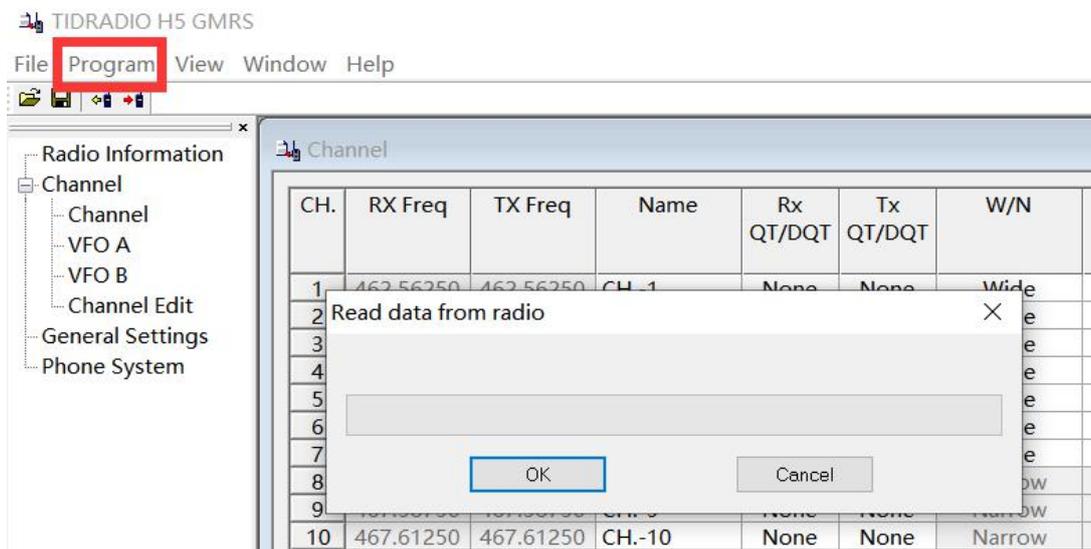
3) You will come to the Radio Information page and then click"Channel" to Channel page.
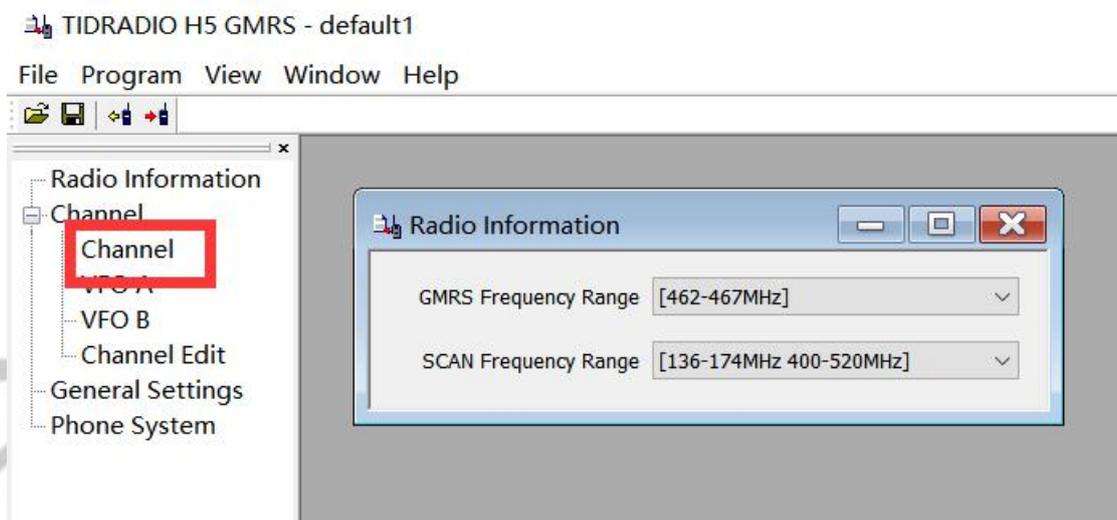
4) In channel page, you can adjust the limited parameters (Name, Rx QT/DQT, Tx QT/DQT, Wide/Narrow, Power, PTT-ID, etc.). The RX frequency and TX frequency of channel 1-54 are fixed, so you cannot change it. Channel 55-250 can only receive frequencies but not transmit frequencies.

TIDRADIO H5 GMRS - default1

File Program View Window Help

Radio Information
Channel
  Channel
  VFO A
  VFO B
  Channel Edit
General Settings
Phone System

Channel

CH.	RX Freq	TX Freq	Name	Rx QT/DQT	Tx QT/DQT	W/N	Power	PTT-ID	BusyLock	Scan Add	Signal	Freq Hopping Code	More
1	462.56250	462.56250	Lily	None	None	Wide	High	OFF	No	Yes	1	Off	>>
2	462.58750	462.58750	CH.-2	None	None	Wide	High	OFF	No	Yes	1	Off	>>
3	462.61250	462.61250	CH.-3	None	None	Wide	High	OFF	No	Yes	1	Off	>>
4	462.63750	462.63750	CH.-4	None	None	Wide	High	OFF	No	Yes	1	Off	>>
5	462.66250	462.66250	CH.-5	None	None	Wide	High	OFF	No	Yes	1	Off	>>
6	462.68750	462.68750	CH.-6	None	None	Wide	High	OFF	No	Yes	1	Off	>>
7	462.71250	462.71250	CH.-7	None	None	Wide	High	OFF	No	Yes	1	Off	>>
8	467.56250	467.56250	CH.-8	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
9	467.58750	467.58750	CH.-9	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
10	467.61250	467.61250	CH.-10	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
11	467.63750	467.63750	CH.-11	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
12	467.66250	467.66250	CH.-12	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
13	467.68750	467.68750	CH.-13	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
14	467.71250	467.71250	CH.-14	None	None	Narrow	Low	OFF	No	Yes	1	Off	>>
15	462.55000	462.55000	CH.-15	None	None	Wide	High	OFF	No	Yes	1	Off	>>
16	462.57500	462.57500	CH.-16	None	None	Wide	High	OFF	No	Yes	1	Off	>>
17	462.60000	462.60000	CH.-17	None	None	Wide	High	OFF	No	Yes	1	Off	>>
18	462.62500	462.62500	CH.-18	None	None	Wide	High	OFF	No	Yes	1	Off	>>
19	462.65000	462.65000	CH.-19	None	None	Wide	High	OFF	No	Yes	1	Off	>>
20	462.67500	462.67500	CH.-20	None	None	Wide	High	OFF	No	Yes	1	Off	>>
21	462.70000	462.70000	CH.-21	None	None	Wide	High	OFF	No	Yes	1	Off	>>
22	462.72500	462.72500	CH.-22	None	None	Wide	High	OFF	No	Yes	1	Off	>>
23	462.55000	467.55000	RPT-1	None	None	Wide	High	OFF	No	Yes	1	Off	>>
24	462.57500	467.57500	RPT-2	None	None	Wide	High	OFF	No	Yes	1	Off	>>
25	462.60000	467.60000	RPT-3	None	None	Wide	High	OFF	No	Yes	1	Off	>>

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File Program View Window Help

Radio Information
Channel
  Channel
  VFO A
  VFO B
  Channel Edit
General Settings
Phone System

| CH.	RX Freq	TX Freq	Name	Rx QT/DQT	Tx QT/DQT	W/N	Power	PTT-ID	BusyLock	Scan Add	Signal	Freq Hopping Code	More
30	462.72500	467.72500	RPT-8	None	None	Wide	High	OFF	No	Yes	1	Off	>>
31	462.55000	467.55000	DIY-1	None	None	Wide	High	OFF	No	Yes	1	Off	>>
32	462.57500	467.57500	DIY-2	None	None	Wide	High	OFF	No	Yes	1	Off	>>
33	462.60000	467.60000	DIY-3	None	None	Wide	High	OFF	No	Yes	1	Off	>>
34	462.62500	467.62500	DIY-4	None	None	Wide	High	OFF	No	Yes	1	Off	>>
35	462.65000	467.65000	DIY-5	None	None	Wide	High	OFF	No	Yes	1	Off	>>
36	462.67500	467.67500	DIY-6	None	None	Wide	High	OFF	No	Yes	1	Off	>>
37	462.70000	467.70000	DIY-7	None	None	Wide	High	OFF	No	Yes	1	Off	>>
38	462.72500	467.72500	DIY-8	None	None	Wide	High	OFF	No	Yes	1	Off	>>
39	462.55000	467.55000	DIY-9	None	None	Wide	High	OFF	No	Yes	1	Off	>>
40	462.57500	467.57500	DIY-10	None	None	Wide	High	OFF	No	Yes	1	Off	>>
41	462.60000	467.60000	DIY-11	None	None	Wide	High	OFF	No	Yes	1	Off	>>
42	462.62500	467.62500	DIY-12	None	None	Wide	High	OFF	No	Yes	1	Off	>>
43	462.65000	467.65000	DIY-13	None	None	Wide	High	OFF	No	Yes	1	Off	>>
44	462.67500	467.67500	DIY-14	None	None	Wide	High	OFF	No	Yes	1	Off	>>
45	462.70000	467.70000	DIY-15	None	None	Wide	High	OFF	No	Yes	1	Off	>>
46	462.72500	467.72500	DIY-16	None	None	Wide	High	OFF	No	Yes	1	Off	>>
47	462.55000	467.55000	DIY-17	None	None	Wide	High	OFF	No	Yes	1	Off	>>
48	462.57500	467.57500	DIY-18	None	None	Wide	High	OFF	No	Yes	1	Off	>>
49	462.60000	467.60000	DIY-19	None	None	Wide	High	OFF	No	Yes	1	Off	>>
50	462.62500	467.62500	DIY-20	None	None	Wide	High	OFF	No	Yes	1	Off	>>
51	462.65000	467.65000	DIY-21	None	None	Wide	High	OFF	No	Yes	1	Off	>>
52	462.67500	467.67500	DIY-22	None	None	Wide	High	OFF	No	Yes	1	Off	>>
53	462.70000	467.70000	DIY-23	None	None	Wide	High	OFF	No	Yes	1	Off	>>
54	462.72500	467.72500	DIY-24	None	None	Wide	High	OFF	No	Yes	1	Off	>>
55													
56													
57													
58													

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Channel Information

The H5 radio has 250 channels, you can edit the 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	GMRS frequency（Fixed）	
Name	Customize channel name	Up to 6 digits.	Support alphanumeric channel name.
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 and continuous sub audible signal to unlock the squelch of a distant receiver.
W/N	Channel bandwidth	WIDE/NARROW	Wideband (25kHz bandwidth) narrowband (12.5 kHz bandwidth).
POWER	Transmit power	HIGH/LOW	High power:5W Low power:1W
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.
BusyLock	Busy Channel Lockout	YES/NO	**YES:** 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. **NO**: No matter if the channel is occupied, the radio will transmit the signal when you press the [PTT] key.

Scan add		YES/NO	In the scan mode, whether add the channel to the scan list. **YES**: the channel is added to scan list; **NO**: 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
Freq Hopping Code		OFF/ON	With this function, you can activate the frequency hopping system, improve the anti-interference ability of the radio, and reduce the risk of being monitored.

5) Click "VFO A" or "VFO B" or Channel Edit you can adjust the limited parameters (Selected Channel, Power Level, Channel Spacing, Signaling Code, Step Frequency , Freq Hopping, etc.)
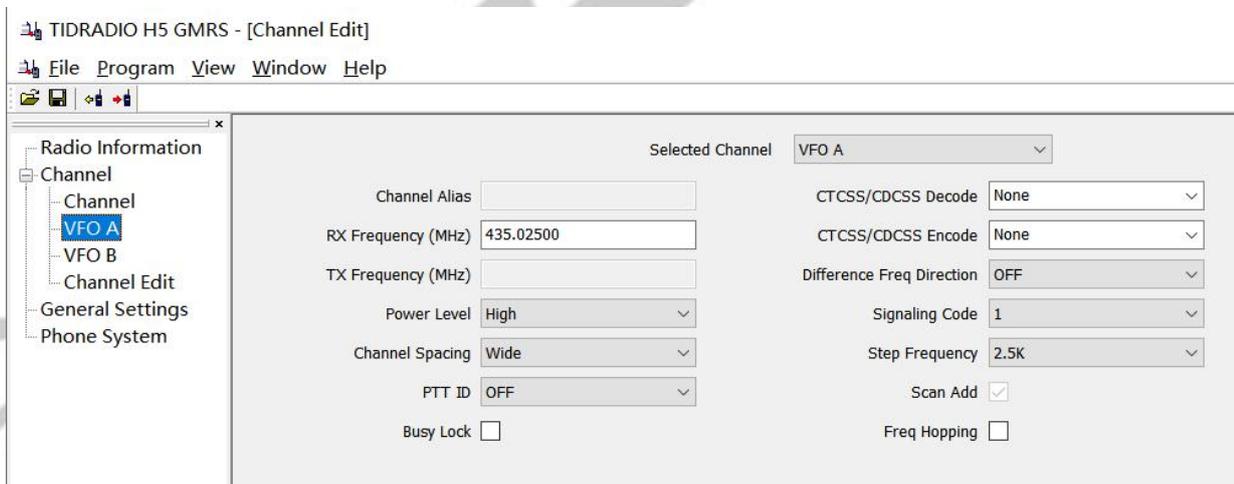
Name	Setting	Description
Selected Channel	CH1-CH250,VFO A,VFO B	Select the channel for editing
Channel Spacing	Wide/Narrow	
Signaling Code	1-15	Selects 1 of 15 DTMF codes. The DTMF codes are programmed with software and are up to 5

		digits each.
Step Frequency	2.5/5.0/6.25/10.0/12.5/20.0/25.0/50.0 KHz	This function lets you select the desired frequency step. Notice
Power Level	Low/High	

6) Click "General Settings" , a page of "General Settings" will pop up, you can adjust the limited parameters (Time Out[s], VOX Level, Work Mode, Battery Save Mode, Squelch Level, Backlight[s], DTMF Side Tone, Scan Type, etc.).
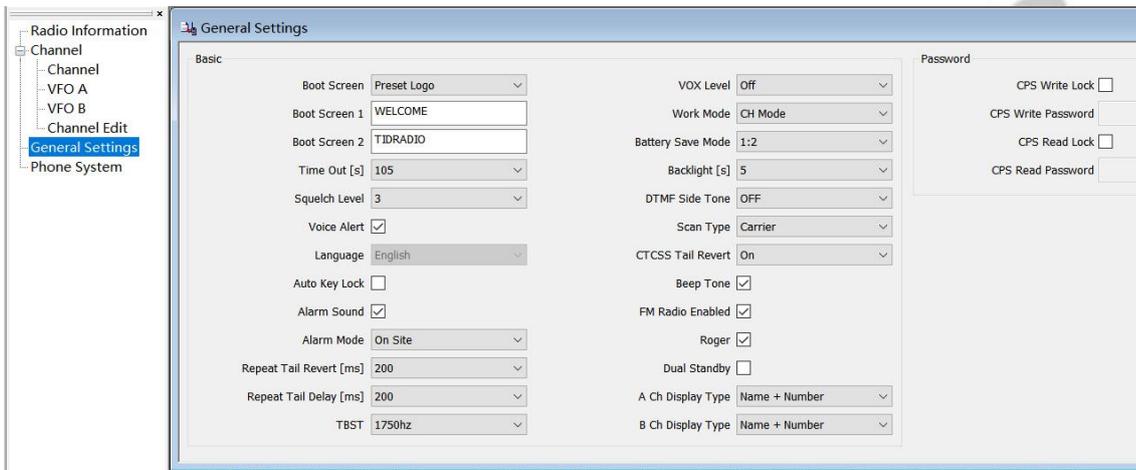
Basic Setting

Name	Settings	Description
Boot Screen	LOGO/Msg/Voltage	Contents displayed at boot
Time Out[s]	Off/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-timetransmissions 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 0 or 1-9 levels. The higher level, the stronger the signal must be to in-mute the speaker.
Voice Alert	ON/OFF	Function voice prompt
Auto Key Lock		When this feature is activated, the keypad will be automatically locked after 15s; this prevents accidental

		pressure of any keys.
Alarm Mode	On Site/Send sound/Send code	Site:Sounds alarm through your radio speaker only. Sound:Sending alarm tone. Code:Sending alarm code.
VOX Level	Off/1-9	This fuction allows hands-free conversations: just speak in the direction od the microphone and the communication will be automatically activated.
Work Mode	Freq Mode	
	CH Mode	
Battery Save Mode	None/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.
Backlight[s]	Bright/1-10	With this function you can adjust the auto off time of the display backlight. When the option is Bright, the backlight is always on, which wall affect the battery stnadby time.
DTMF Side Tone	**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	
Scan Type	**Time:** Time Operation - scanning will resume after a fixed time has passed	Scanning Resume Method
	Carrier: Carrier Operation -Scanning Resume Method scanning will resume after the signal disappears	
	Search: Search Operation scanning will not resume	
Roger		Send an end-of-transmission tone to indicate to other stations that the transmission has ended.
Dual Standby		Monitor 【A】 and 【B】 at the same time.The display with the most recent activity 【A】 or 【B】 becomes the selected display.

**Channel Display Type**
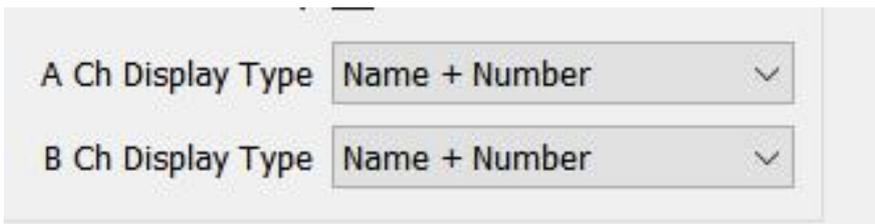
You can customize the display on Channel A/B:

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

Freq + Number: Display Frequency and Channel Number

7) Finally, all the modification will be saved by clicking the "Program" button, then clicking the "Write to Radio" button on the popup. And you can check the setting you modified after reboot the radio.
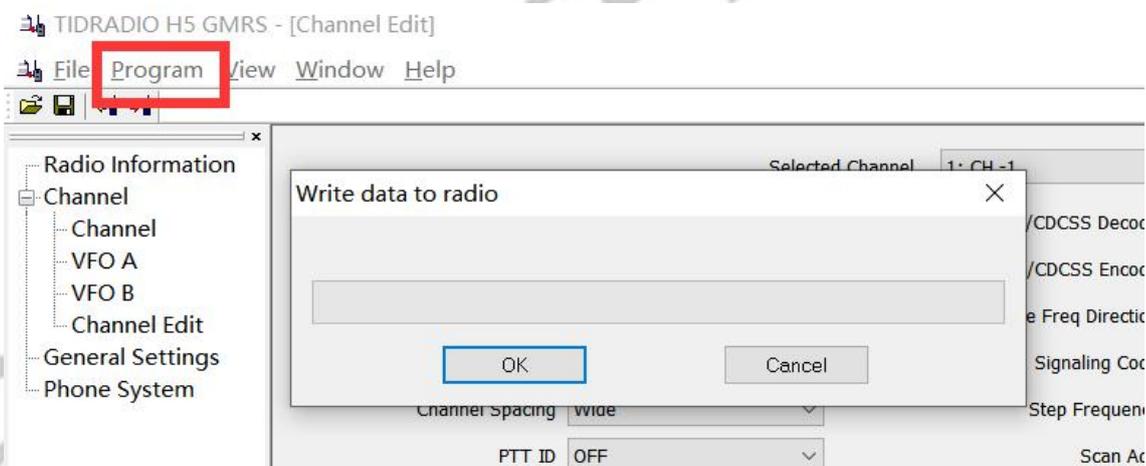
*If you have any problem with the TIDRADIO H5 radio using or programming, please don't hesitate to contact us via support: walkietalkiesoftware.com. Also visit our Facebook pages (TIDRADIO) for more help.It's always our honor to help.