

7) LED Display Mode (LED---MENU 7)

Function: select the LED/Keypad Lamp mode.

Enter Menu 7th to select LED display mode. Default: AUTO.

ON: LED display lights all the time.

AUTO: Illuminates the LED when any key is pressed and after 3s the light is off.

OFF: Disable the LED lamp.

8) Backlight Brightness setting (LIGHT---MENU 8)

Functions: choose LED backlight brightness.

Enter Menu 8th to select backlight brightness. Default: COLOR2.

COLOR1: brighter.

COLOR2: default setting.

COLOR3: darker.

9) Keypad Beeper setting (BEEP---MENU 9)

Functions: enable/disable the keypad beeper.

Enter Menu 9th to set keypad beeper. Default: ON.

10) Automatic Number Identity (ANI---MENU 10)

Functions: sending ID code when TH-UVF9 transmits, the others can receive it directly on the display if they also have ANI function.

Enter Menu 10th to set ANI. Default: OFF.

11) Transmitter Time-Out Timer (TOT---MENU 11)

Functions: the TOT feature provides a safety switch which limits transmission to a pre-programmed value. This will promote battery conservation by not allowing you to make excessively-long transmissions, and in the event of a stuck PTT switch it can prevent interference to other users as well as battery depletion.

Enter Menu 11th to set TOT. Default: OFF.

12) Busy Channel Lock-Out (BCLO---MENU 12)

Functions: the BCLO feature prevents the radio's transmitter from being activated if a signal strong enough to break through the "noise" squelch is present. On a frequency where stations using different CTCSS or DCS codes may be active, BCLO prevents you from disrupting their communications accidentally (because your radio may be muted by its own tone decoder).

Enter Menu 12th to set BCLO. Default: OFF.

OFF: Disable BCLO feature.

WAVE: the radio's PTT will be prevented only if the frequency is busy used.

CALL: the radio's PTT will be prevented only the frequency and tone coder is the same.

13) Transmit Over Beeper (ROGER---MENU 14)

Functions: sending a beeper to inform the receiver TX is over.

Enter Menu 14th to set ROGER. Default: OFF.

14) Dual Watch/Monitor (DW---MENU 15)

Functions: Dual Watch feature makes TH-UVF9 can monitor the calling signal when FM radio is on and you won't miss any calling.

Enter Menu 15th to set DW. Default: OFF.

15) Receive Saver (RX.SAV---MENU 16)

Functions: this feature significantly reduces quiescent battery drain, and you may not receive the full data burst.



Enter Menu 16th to set RX.SAV. Default: OFF.

16) Auto Keypad Lock (AUTOLK---MENU 18)

Functions: in order to prevent accidental frequency change or inadvertent transmission, various aspects of the TH-F8's keys and switches may be locked out.

Enter Menu 18th to set AUTOLK. Default: OFF.

When you switch AUTOLK ON, the keypad will be locked automatically if there is no key operation for 5 second.

If the radio is locked, press [ lock] key to unlock it. Also you can lock it using [ lock] key by manual.

17) Voice Prompt (VOICE---MENU 19)

Functions: enable/disable voice prompt.

Enter Menu 19th to set VOICE. Default: ON.

18) Power-on Display setting (OPN.SET&VLT&PON.MSG---MENU 20&21&22)

Functions: choose power-on display mode and edit power-on message

Enter Menu 20th to set OPN.SET. Default: OFF.





OFF: display model version

DC: battery power voltage

MSG: power-on message

Enter Menu 21st to check battery voltage.

Enter Menu 22nd to edit power-on message, also you can edit it directly by program software.

Using [] / [] to select character; [ lock] / [ unlock] to switch cursor position.

19) Repeater Shift setting (OFFSET&S-D---MENU 23&28)

Functions: repeater stations, usually located on mountaintops or other high locations, provide a dramatic extension of the communication range for low-powered hand-held or mobile transceivers.

Under VFO mode, you can set the magnitude and direction of the repeater shift.

Enter Menu 23rd to set magnitude of the repeater shift.

Available values: 0.00 ~ 99.95 MHz


Enter Menu 28th to set the repeater shift direction. Default: OFF.

20) Display Channel Name (DIS.NAME&CH.NAME—MENU 23&24)

Functions: switch channel name display ON/OFF and edit channel name under MR/CH mode.

Enter Menu 23rd to switch display channel name ON/OFF.

Enter Menu 24th to edit channel name, also you can edit it directly by program software.




Using [] / [] to select character; [] / [] to switch cursor position.


21) Tone coder & Tone Search Scanning & Tone calling (C-CDC& R-CDC& T-CDC&SEEK 67.0&D023N---MENU 25&26&27&31&32)

Function 1: CTCSS/DCS Operation

Many repeater systems require that a very-low-frequency audio tone be superimposed on your FM carrier in order to activate the repeater. This helps prevent false activation of the repeater by radar or spurious signals from other transmitters.

Enter Menu 25th/26th/27th to set TX&RX Tone coder/ RX Tone coder/ TX Tone coder.

1) Press [] key to select CTCSS/ DCS/ OFF. After you choose CTCSS/ DCS, press [] / [] key to choose the right group you need.

2) Press [] key to select DCS direction.

TH-UVF9 has 50 groups CTCSS, 104 groups normal/inverted DCS.

CTCSS TONE FREQUENCY (Hz)

67.0	69.3	71.9	74.4	77.0	79.7
8.25	85.4	88.5	91.5	94.8	97.4
100.0	103.5	107.2	110.9	114.8	118.8
123.0	127.3	131.8	136.5	141.3	146.2
151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2
189.9	192.8	196.6	199.5	203.5	206.5
210.7	218.1	225.7	229.1	233.6	241.8
250.3	254.1	-	-	-	-

DCS CODE						
023	074	172	265	371	503	662
025	114	174	266	411	506	664
026	115	205	271	412	516	703
031	116	212	274	413	523	712
032	122	223	306	423	526	723
036	125	225	311	431	532	731
043	131	226	315	432	546	732
047	132	243	325	445	565	734
050	134	244	331	446	606	743
051	143	245	332	452	612	754
053	145	246	343	454	624	-
054	152	251	346	455	627	-
065	155	252	351	462	631	-
071	156	255	356	464	632	-
072	162	261	364	465	645	-
073	165	263	365	466	654	-

Function 2: TONE Search Scanning

In operating situations where you don't know the CTCSS/DCS tone being used by another station or stations, you can command the radio to listen to the incoming signal and scan in search of the tone being used.

Enter Menu 31st/32nd to start CTCSS/DCS searching.

If the Tone scan feature does not detect a tone or code, it will continue to scan indefinitely. When this happens, it may be that the other station is not sending any tone. You can press **PTT** key to halt the scan at any time.

You also can press **MONI** key during Tone scanning to listen to the (muted) signal from the other station. When you release the **MONI** key, Tone scanning will resume.

Tone Scanning works either in the VFO or MR modes.

Function 3: TONE Calling (1750Hz)

If the repeaters in your country require a 1750Hz burst tone for access (typically in Europe), you can press and hold **CALL** key for 2s and transmitter will automatically be activated, and a 1750Hz audio tone will be superimposed on the carrier. Once access to the repeater has been gained, you may release **CALL** and use **PTT** key for activating the transmitter.

22) VFO Step setting (STEP---MENU 29)

Functions: setting of the synthesizer steps

Enter Menu 29th to set VFO step.

Available Values: 5/6.25/10/12.5/25/50/100 kHz

23) Wide/Narrow band selecting (N/W---MENU 30)

Functions: setting of wide/narrow bandwidth

Enter Menu 30th to set bandwidth.

Available Values: Wide---25kHz/Narrow---12.5kHz

24) Vibration (Optional) (DALARM---MENU 33)

Functions: The vibration indication helps in working conditions where quiet operation is required.

Enter Menu 33rd to set DALARM. Default: OFF

Under standby mode, when you set this function on, long press [MONI] key for 3S, 60Hz tone will be transmitted, receiveing part will vibrate.

25) Man Down (Optional) (VIBRATE---MENU 34)

Functions: This feature qutomatically summons assistance when the radio falls over for a predetermined time period when you set it on and

Enter Menu 34th to set VIBRATE. Default: OFF

26) Voice Mode and Scrambler (SCR&APRO---MENU 35&36)

Functions: only 2/5 tone version has this function.

TH-UVF9 has 8 groups of scrambler; it is accomplished by the addition of components to the original signal in order to make extraction of the original signal difficult. And its voice compand technology will make the voice more clearly in the noise environment.

Enter Menu 35rd to set scrambler group.

Enter Menu 36th to set voice mode.

Available Values: OFF/COMP/SCRA

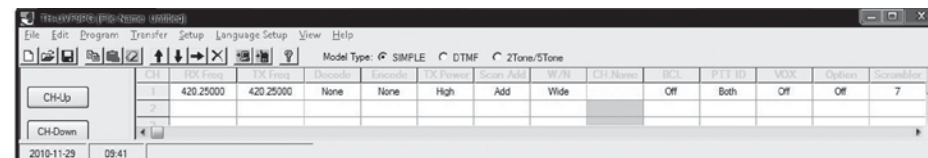
ADVANCED FUNCTIONS

1) PTT ID SETTING

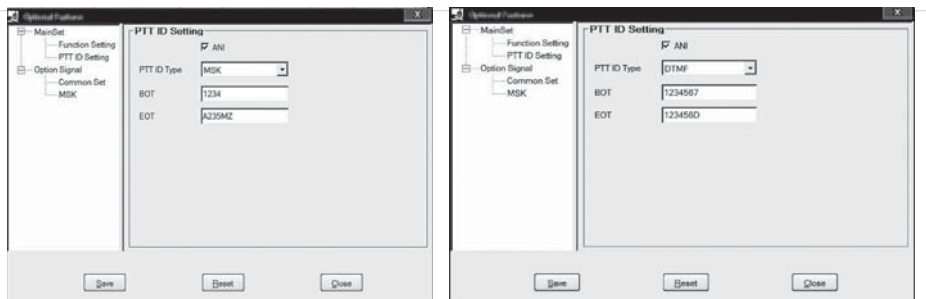
PTT ID (Programmed by TH-UVF9 software)

This transceiver supports two optional signalings, MSK and DTMF. DTMF signaling only supports encoding.

Set transmitting and receiving frequency in advance and then program PTT ID via software, click in sequence: -Program-Optional Features-PTT ID setting. And click the ANI (mark ✓). You can input character in BOT and EOT.



If select MSK, you can choose from 0-9, 4 digits in maximum for BOT; for EOT, you can choose from 0-9 and A-Z, 6 characters in maximum. While select DTMF, for BOT, you can choose from 0 to 9 and A to D, 7 characters in maximum. For EOT, you can choose from 0-9 and A-Z and 7 characters in maximum. You can select "BOT, EOT, or BOTH, then save to the radio.



2) EMERGENCY ALERT [FUN] + [FM]

Under standby mode, press [FUN] to enter menu setting, LCD displays "MENU"; then press [FM] to turn on emergency alert function, radio will transmit emergency ring for 20S and then receive for 10S, until you press PTT, it will exit.



3) KEYPAD LOCK SETTING

Under standby mode, press [* Lock] for 2S to lock or unlock the keypad, "→" will be displayed at the top of LCD when keypad is locked.

4) REVERSE FREQUENCY ON/OFF

Under standby mode, press [# 1-2] for 2S to turn on or off this function, "R" will be displayed at the top of LCD when you turn on this function. At this time, radio's transmitting frequency is its receiving one, and its receiving frequency is its transmitting one.

5) TONE CALLING (1750Hz TONE)

To access a repeater, press and hold in [CALL] key for the amount of time specified by the repeater. The transmitter will automatically be activated, and a 1750Hz audio tone will be superimposed on the carrier. Once access to the repeater has been gained, you may release [CALL] key and use PTT for activating the transmission.

6) CHANNEL STORAGE AND DELETE

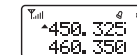
Channel Storage

Under VFO mode, input desired frequency by keypad directly or select one by pressing [<] or [>], and then press [FUN] + [EXIT], the digits blink at the right top of LCD, press number to input desired channel directly or press [<] or [>] to choose desired one, then press [EXIT] for storage.

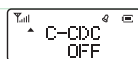
Note: after you input desired channel number, if it blinks, it means that this channel is already occupied, you can choose another one.

e.g.: to store the frequency: 450.325MHz with CTCSS: 151.4 to the channel 05, the step are as follows:

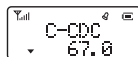
1) Under VFO mode, input 4-5-0-3-2-5



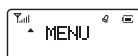
2) Press [FUN] + [2 Pr] [5 Off] or press [FUN] + [* Lock], then press [FUN] to enter



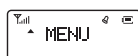
3) Press [* Lock] to choose CTCSS mode, LCD displays C-CDC 67.0



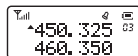
4) Press [<] or [>] to choose 154.1, then press [FUN] to confirm



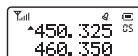
5) Press [EXIT] twice to exit



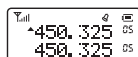
6) Press [FUN] + [EXIT], the digit blinks at the right top of LCD



7) Press [<] or [>] to choose or input 05 directly



8) Press [EXIT] for storage, LCD displays MR mode and currently stored channel



Channel delete

1) Under MR or CH mode, press [EXIT] to turn on the radio, LCD displays "DEL ?" and channel number blinks at the right top of LCD.



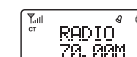
2) Press [<] or [>] or input channel number you want to delete, then press [FUN] to confirm

3) After delete, it will skip into next channel, if you want to delete it, repeat above operation.

7) FM RADIO FUNCTION

1) On/off radio receiver

Under standby mode, press [FM] to open FM radio function, LCD display "76.00M", then press [FM] again, radios receiver is off.



Note: under FM radio mode, if receiving the signal, the radio will be out of FM mode, after 5S, it will be back to FM mode when the signals disappear.

2) Mode selection:

Under FM radio mode, press [EXIT] to switch between FM memory mode and FM frequency mode (this function is unavailable when there is not FM memory channel)

3) Frequency selecting

Under FM frequency mode, input the digits directly by keypad or press [<] or [>] to choose the desired frequency. Under FM memory mode, press [<] or [>] to choose the desired channel.






4) FM radio search:

Under FM radio mode, press [FUN] + [1 Scan], then press [FUN] again to enter FM radio scanning, you will see "RADIO SEEK.UP" in the screen, press [<] or [>] to change scanning direction. Radio will stop scanning when frequency is available and then exits. If you rotate the encoder knob, it will scan again; press any key







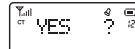
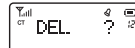
except [] or [] and [] to exit.

5) FM radio storage

Under FM frequency mode, press [] and then press [], the channel number for storage blinks at the right of the screen. press [] or [] or use number key to select the desired channel number, press [] to confirm and then back to the receiving mode.

6) FM radio channel delete:

Under FM memory mode, turn off the radio, press [] to turn on the radio, you will see "DEL ?" in the screen and the channel number blinks. press [] or [] to choose the channel number you want to delete, press [] to confirm. Repeat this operation, you can delete all memory channel, 25 in maximum.




8) WIRE CLONE

Prepare 2sets of TH-UVF9, 1pcs specific wired cloning cable.

Master radio (sending messages when in wired cloning)

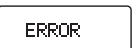
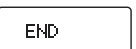
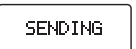
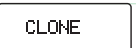
Deputy radio (receiving and storing messages when in wired cloning)

Steps of wired clone

- 1) The deputy radio normally power on. Connect master and deputy one with the wired cloning cable.
- 2) Press PTT and [] to turn on the master radio, enter the wired

clone state. The "Clone" will be heard, LCD displays "CLONE"

- 3) Press [MONI] key of the master radio to start wired clone. During cloning, the master radio displays "Sending" and deputy one displays "End". If cloning succeeds, the master radio returns to the clone preparation state, and it lights orange. it displays "Error". Please check the cloning cable and then press [MONI] to enter cloning state again.



OPTIONAL SIGNALINGS

REMOTE KILL, STUN, ACTIVATE AND REVIVE

<http://www.tyt888.com>

OPTIONAL SIGNALINGS

Optional Signalings (Programmed by TH-UVF9 software)

This transceiver supports four optional signalings (MSK, DTMF, 2-Tone, 5-Tone). Click in sequence “program → Optional Features → Optional Signal → Common Set”, the programming software also has three versions: simple version (Supporting MSK Signaling), DTMF version (Supporting MSK signaling and DTMF signaling) and 5T&2T version (Supporting MSK signaling and 2T/5T signaling). Please check the version first before programming. If the version of programming software is different from the radio version, you cannot program via software.

In transmitting, maybe radio cannot receive the complete signaling, because radio needs time to switch when in power-saving state. We have to set the “Digit delay”, that's, to send a carrier first, let radio receive signal, then send Signaling to make sure it will be received. The suggested time for delay time is more than 400S

Press [**CALL**] key, LCD will display “DTMF?”, “MSK?” or “2Tone?”, Press [**0 AM**] and [**9 BEEP**] keys to make call with the desired call list message. If the corresponding call list has not been edited, the function is not available.

DTMF Part

Click in sequence “program → Optional Features → Optional Signal → DTMF”

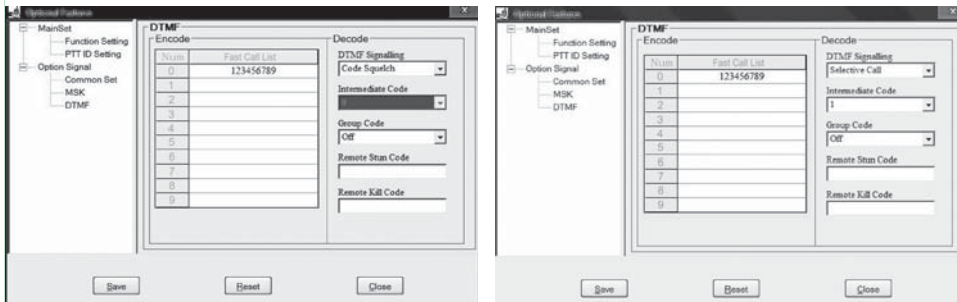
Step 1: Edit the Fast Call list via programming software, radio can store up to 10 groups (0-9) last calling list in total

Step 2: Input the desired code into the corresponding list, 16 characters in maximum.

Step 3: Choose the desired DTMF decoder from available values: “Code Squelch (Picture 1) and Selective Call (Picture 2)”

Step 4: Choose the Intermediate Code if you select “Selective Call” (The first three are ID code and the fourth are Intermediate Code)

Step 5: Choose the group code, then click [save] after finishing it, and then exit.



Picture 1

Picture 2

Click “More” after frequency you edit, programming in the popup

Step 6: Set the optional signal of the desired channel to be DTMF. Input the ID code and then save it after finishing it.

Make DTMF call with the transceiver

First method

- 1) Power on, then select the channel with DTMF signal
- 2) Press [**CALL**] key, LCD displays “CALL/DTMF?”, then press [**0**] – [**9**] keys to make call with the desired call list message. If the corresponding call list has not been edited, it will sound “DU”.



Second method

Press PTT and hold on and then press the number key to transmit.

MSK Part

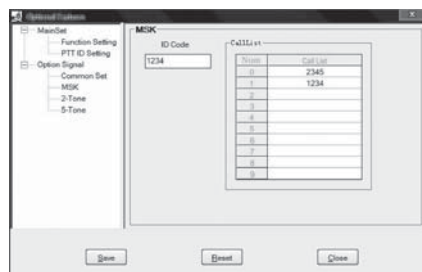
Edit the MSK message of the transceiver (ID code is for receiving while calling list message is for transmitting.)

Click in sequence “program → Optional Features → Optional Signal → MSK”

Step 1: Edit the Fast Call list via programming software, radio can store up to 10 groups (0-9) last calling list in total

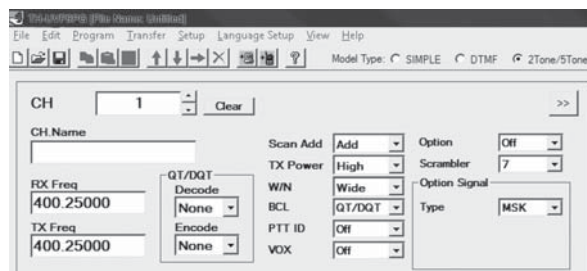
Step 2: Input the desired code into the corresponding list, 4 characters in maximum, Click [save] after finishing it then exit.

Step 3: Input corresponding ID code in the calling list. ID code should be corresponding to the one in the CallList, e.g.: if ID code is 1234, the corresponding callList is Group 1 (Picture 3)



Picture 3

Step 4: Set the optional signal of the desired channel to be MSK. Click “More” after every frequency you edit, program it in the popup (Picture 4)



Picture 4

Make MSK call with the transceiver

- 1) Power on, then select the channel with MSK signal
- 2) Press [**CALL**] key, LCD displays “CALL/DTMF?”, then press [**0 anti**] – [**9 beep**] keys to make call with the desired call list message. If the corresponding call list has not been edited, it will sound “DU”.

e.g.: program the above frequency and MSK signal into two radio.

input ID code 1234 into radio A, and input 2345 into radio

B. Press [**CALL**], LCD displays “CALL/MSK?”,

then press [**0 anti**], you can call B with A. if you want to call

A with B, press [**CALL**], LCD displays “CALL/MSK?”,

then press [**1 beep**], that is to say, if you want to call one radio, just input the ID code of that radio.



2-Tone Part

Edit 2Tone message:

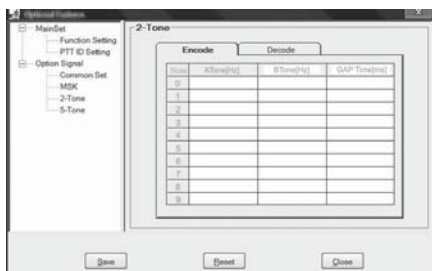
Step 1: Edit the Fast Call list via programming software, radio can store up to 10 groups (0-9) last calling list in total

Step 2: Input the encoding-requested A-Tone (the first tone), B-Tone (the second tone)

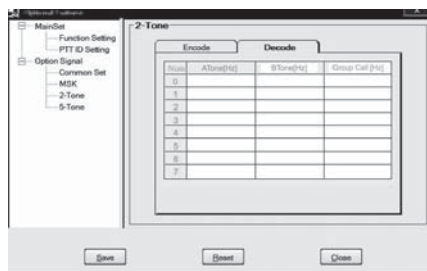
and the gap time between A-tone and B-tone, the default setting is 100S

In encoding, A tone will sound 1S while B Tone will sound 3S. But when there is only A tone in the call list as group call tone, A tone will sound 5S. Please refer to

Picture 5 and Picture 6,



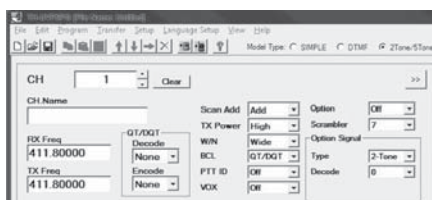
Picture 5: 2tone as transmitting encoder
Group 0:2 tone
Group 1: single tone



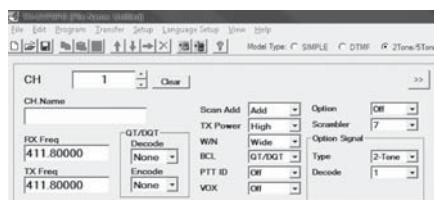
Picture 6: 2tone as receiving decoder
Group 0:2 tone decoder
Group 1: single tone decoder

As single tone calling, only input A Tone (e.g. A Tone is 1750 Hz), no need to input in another Tone. The Tone in "Group Call" should be the same to the Tone of encoder (900.3MHz).

Step 3: Set the optional signal of the desired channel to be 2-Tone. Click "More" after every frequency you edit, program it in the popup. (Picture 7/8)



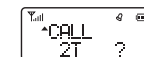
Picture 7: Select group 0 as 2-Tone



Picture 8: Select group 1 as single-tone

Make 2-tone call with the transceiver

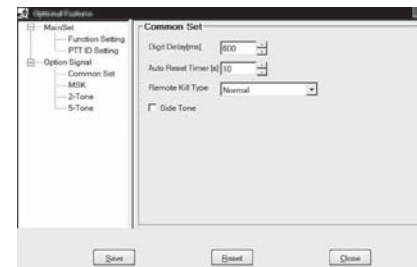
- 1) Power on, then select the channel with 2-Tone signal
- 2) Press [**CALL**] key, LCD displays "CALL/2T?", then press [**0 and**] key to transmit 2-Tone while press [**1 scan**] to transmit a single tone/Group call. If the corresponding call list has not been edited, it will sound "DU".



5-Tone Part

Edit 5tone message

Click in sequence "program → Optional Features → Optional Signal → 5-Tone" to program 5-Tone ID and 5-Tone international standard group.

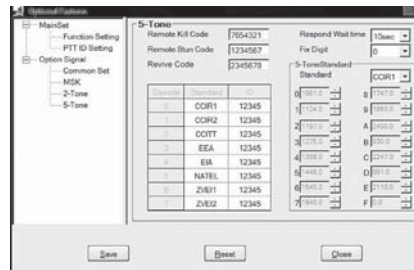


The group numbers 0-9 in the call list is used to edit the 5tone ID of the radio you want to call. You can put 0-9, A, B, C, D and number (including repeated ID)

The group in the international standard are: CCIR1, CCIR2, CCITT, EEA, EIA, NATEL, ZVEL1, ZVEL2, 9 groups in total.

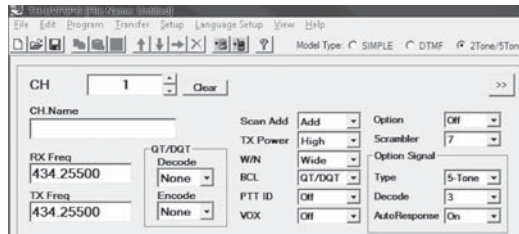
Select one of them and input self ID (input in ID), and then write into the radio.

E.g. the self ID is CCIR2, 5tone is 2A358; the ID of other radio is 44044 (group number is 0). As following picture 9:



Picture 9

Click "Save" after editing desired 5tone, and then write into the radio
 Click "More" after the channel needed editing to enter setting. Select 5tone in the Optional signal, and then select the List Num want to call, and click "ON" in the Auto Response.
 You also can set the frequency and channel then press "OK" to save the information to the radio (Picture 10)



Picture 10

This transceiver has 8 groups' 5-Tone encoder and decoder to support the different channels, the operation of calling/transmitting 5-Tone are as follows:

1) Select the channel with 5-tone signal.
 (LCD displays "5T" at the right bottom of radio)

2) Press [CALL], LCD displays "-----"

3) Input the 5-Tone ID of radio you want to call

e.g.: input A-2-3-5-B in Group 2 in sequence, at this time the keys [], [], [], [] stand for "A", "B", "C", and "D", so if you want to input A-2-3-5-B, press [], [], [], [] [], in sequence

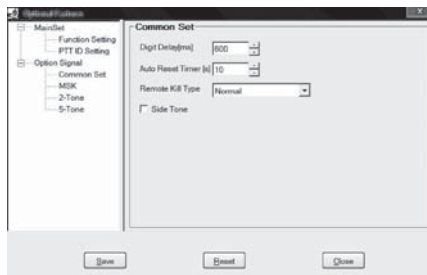
4) Press PTT to transmit



REMOTE KILL, STUN, ACTIVATE AND REVIVE

If you want to use remote kill, stun, activate and revive, please program signalling for current channel as DTMF and 2/5tone.

REMOTE KILL: If the radio received DTMF code programmed as remote kill, the radio will enter the remote kill status; radio cannot send or receive signals. If the radio received DTMF code programmed as revive, the radio will quit the remote kill status and enter normal operation. In this situation, the radio only can be revived by programming software, the method is as follows: read data from radio first and then click program → Optional Features → Optional Signal → Common Set, and select “Normal” in the “Remote Kill Type”, then save the data to the radio.

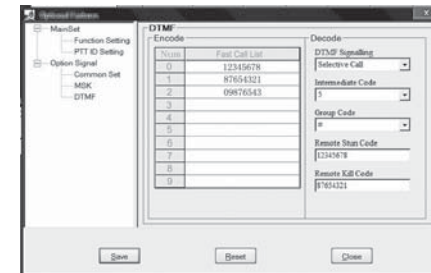


REMOTE STUN: If the radio received DTMF code programmed as remote stun, the radio will enter the remote stun status; radio can only receive signals and cannot send signals. If the radio received DTMF code programmed as

remote un-stun, the radio will quit the remote stun status and enter normal operation.

- 1) Simple version don't have this function
- 2) DTMF version

A. Click in sequence “program → Optional Features → Optional Signal → DTMF → Remote kill/stun code” to input your desired Remote kill/stun code



B. In transmitting, input the Remote kill/stun code for the radio which you want to remote kill/stun.

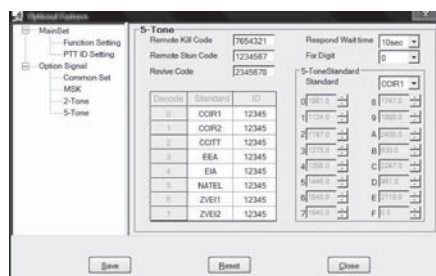
C. Remote revive code is “remote stun code + #”, but the remote kill one aren't able to be revived by this way.

e.g.: There are two radios with the same DTMF encode. The remote stun code for radio A is 12345678, remote kill one is 87654321. If you want to remote un-stun it, please use another radio to input the working frequency of radio A, press [PTT] to transmit, at the same time to input remote stun code 12345678. After receiving this

code, the radio will enter the remote stun status and you will hear a sound. And then press [PTT] and input DTMF code 12345678#, the radio will quit the remote stun status and enter normal operation. The operation of remote kill is the same to remote stun, but in this situation, radio cannot be revived by this way.

3) 5T&2T Version

A. Click in sequence “program → Optional Features → Optional Signal → 5-Tone → Remote kill/stun code” to input your desired Remote kill/stun code, the fixed one is 7 characters.



B. press [CALL], LCD displays '-----', input the code directly and then press [PTT] to transmit.

e.g.: the Remote stun code for radio A is 1234567, revive code is 2345678, remote kill one is 7654321. If you want to remote stun it, please use another one, radio B to input the working frequency of radio A, then press [CALL], LCD displays "-----", input in sequence 1234567, then press [PTT] to transmit. After receiving this code, the radio A will enter the remote stun status and you will hear a sound. If you want to

revive it, press [CALL] and input remote un-stun code 2345678, the radio will quit the remote stun status and enter normal operation. The operation of remote kill is the same to remote stun.

TECHNICAL PARAMETERS GUARANTEE

<http://www.tyt888.com>

TECHNICAL PARAMETERS

General	TH-UVF9
Frequency Range	136-174MHz 400-470MHz
Frequency stability	±2.5PPm
Channel No.	128x2
Antenna	High gain antenna
Antenna Impedance	50Ω
Mode of operation	Simple or semi-duplex
Dimensions (WxHxD)	128 x 63 x 33mm

Transmitter	
Output power	≤ 5W
Modulation Mode	11kΦF3E
Maximum deviation	<5KHz / <2.5KHz
Adjacent Ch. power	≥65dB / ≥60dB
Spurious Radiation	<7μW
Pre-emphasis characteristics	6dB
Current	≤ 1.6A(5W)
CTCSS/DCS deviation	0.5kHz±0.1kHz / 0.3kHz±0.1kHz
Intermediation sensitivity	8-12mV
Intermediation distortion	<5%
Receiver	
Audio power	1W
Audio Distortion	<10%
Blocking	≥ 85dB
Intermediation	≥ 60dB ≥ 55dB
Selectivity	≥ 65dB ≥ 60dB
Spurious Rejection	≥ 65dB
Note: Specification will be revised without notice due to technical improvement. Thank you.	

Please cut along with this line



Guarantee

Model Number: _____

Serial Number: _____

Purchasing Date: _____

Dealer: _____ Telephone: _____

User's Name: _____ Telephone: _____

Address: _____ Post Code: _____

Remarks:

- 1 This guarantee card to be kept by the user, no replenishment if lost.
- 2 This guarantee card to be filled & chopped by the dealer, or it is invalid.
- 3 Don't alter the guarantee card, please confirm the serial number on the guarantee card is same as that on the machine.
- 4 One-year guarantee, charger, battery, ear-phone, antenna and cable are not under guarantee.
- 5 The user can get repairing service from the followingways:
 - Go to the shop where you buy the machine.
 - Our local repairing agents.
 - Send back to our company.

Safety Training Information



our TYT Electronics Co., Ltd. radio generates RF electromagnetic during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, our TYT Electronics Co., Ltd. radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- IEEE Std. 1528:2013 and KDB447498, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields- RF and Microwave.



The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, TYT Electronics Co., Ltd. radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Attention:

This radio complies with IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% and is authorized by the FCC for occupational use only. An appropriate warning label is affixed to all units. In order to comply with RF exposure requirements, a minimum distance of 2.5cm must be maintained when held-to-face, and body-worn operations are restricted to the approved original accessories (belt clip). Do not use this device when the antenna shows obvious damage.

This product is in compliance with FCC RF Exposure requirements and refers to the FCC website <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID:PODTH-UVF9 to gain further information including SAR Values.

FCC Warning

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

RF Exposure complianceStatement and operating instructions

The device has been tested against the SAR limit (8.0W/kg). The highest SAR value reported under this standard during product certification for use at the Face up is 2.415W/kg and when properly worn on the body is 3.068W/kg. This device was tested for typical operations.

The device only supports simplex-mode and transmitting is no more than the rated duty cycle factor of 50% of the time. For hand-held operation, the radio should be held at least 25mm from the user's face. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided. Use only the supplied or an approved antenna.