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Http://www.tyt888.com

TH-UVF8

Handheld Transceiver

Dual Band, Dual Display, Dual Standby

- A/B Band Independent Operation
- Tone Search CTCSS/DCS Scanning
- 8 Groups Scrambler
- DTMF Encoder and Decoder
- 2 Tone/5 Tone Encoder and Decoder
- Emergency alarm
- Talk around function

CTCSS/DCS encoding and decoding

ISO9001:2008
User's Manual

TO CUSTOMERS

Thank you very much for using our two way radio. This radio of modern design is reasonable structure with stable functions. It is designed to meet different customers' need for high quality with easy operation and perfect capablity. We believe you are pleased with its nice shape and excellent performance.

This manual is suitable for using the model of TH-UVF8.

User Manual

Model: TH-UVF8

Welcome to use TYT two-way radio

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Main Functions

Handsfree VOX function

CTCSS/DCS encoding and decoding

CTCSS/DCS scanning

Low battery alarm

Emergency Alarm

Shift repeater function

ANI function

DTMF & Remote kill/stun function

Talkaround function

Reverse frequency function

Tri-color background light selectable

MSK/DTMF/2T/5T

Programming protection

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GUARANTEE

USING TIPS

UNPACKING AND CHECKING EQUIPMENT

USING TIPS

Please read the following brief instructions, non-compliance with these rules may cause danger or violate the law.

- Obey the local government regulation before using this radio, improper use may violate the law and be punished.
- Turn off the radio before entering flammable or explosive areas.
- Do not charge or change the battery in flammable or explosive areas.
- Turn off the radio before getting close to the blasting zone or detonator areas.
- Do not use radio whose antenna is damaged, touching of damaged antenna will cause heat injury.
- Do not attempt to open the radio; the maintenance work should be done by technical expert only.
- To avoid troubles caused by electromagnetic interference or electromagnetic compatibility, please turn off the radio in places where have the banner "Do not use wireless equipment", such as hospital and other healthcare places.
- In the car with an airbag, do not put the radio within the scope of the airbag deployment.
- Do not store the radio under the direct sunshine or in hot areas.
- When you transmit with the radio, do keep away from its antenna for 5cm at least.
- If the radio appears smelly or smoke, please shut off its power immediately and contact with your local dealer.
- Do not transmit too long, for the radio may heat and hurt the user.

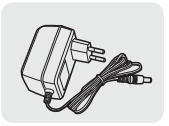
UNPACKING AND CHECKING EQUIPMENT

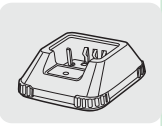
Welcome to use TYT TH-UVF8 transceiver. Please check if any damage to the package when your receive it. Carefully unpack the transceiver. We recommend that you check the items listed in the following table. If any items are missing or damaged during shipment, please contact with your local dealer immediately.

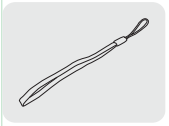
Supplied Items:

TH-UVF8 Body (1)

Li-ion battery (1)


Power Adapter (1)


Charger (1)


Handstrap (1)

Belt Clip (1)

Verification (1)

User's Manual (1)

Note: The antenna frequency range please refers to the annular label at the bottom of antenna.

User's Manual

CHARGING BATTERY PACK

INSTALLATION OF ACCESSORIES

GETTING FAMILIAR

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CHARGING BATTERY PACK

Charging Precaution

The supplied battery pack of TH-UV8 is a high-performance Li-ion battery with 7.4V standard voltage,1600mAh high capacity in a very compact package. Under normal use, the battery pack may be used for approximately 500 charge cycles and more, after which operating time maybe expected to decrease. If you have an old battery pack which is displaying capacity which has become diminished, you should replace the pack with a new one.

Please use TYT designated battery; other batteries can cause explosion and hurt people.

Notice:
- Please do not short-circuit the battery terminals or expose of in fire. Do not disassemble the battery unauthorized.
- Charge the battery between temperature-10℃and 40℃. The battery can not be normally charged beyond this temperature range.
- Please turn off the transceiver when you charge it. Transmitting with the transceiver in charge will affect its normal charge.
- Do not unplug the Power Adapter or battery when it is charged.
- If the battery pack lasts shortly even it is full of power, it shows that the battery is depleted, please change the battery pack.
- Please do not charge when the battery or the radio is wet. Please dry it with a cloth before charging to avoid any danger.

Warning: When the conductive metals such as jewelery, key or decorative chains touch the

battery terminals, all the batteries are likely to cause damage to the items or personal injury. These conductive metals may form a short circuit and generates much heat. Do deal with any battery carefully, especially when put it into pocket, wallet or other metallic containers.

Charging Operation

After installing the battery pack, if the battery icon shows ⊏⊐, it means that the battery pack is out of power, Please charge it.

Indicator light of charger will show charging condition

Indicator Display	Status
Red	Charging
Green	Completed

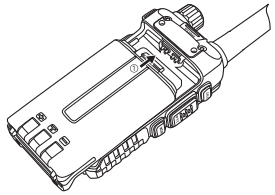
Battery Tips:

- The battery is not fully charged in factory, please charge before using it.
- Charge and discharge the battery for two or three times, the battery capacity will reach the best condition. When the battery capacity is low, please charge or change the battery.
- The battery lasts shortly even if it is fully charged, the battery is depleted, please contact your local dealer to buy a new authentic TYT battery.

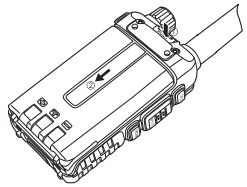
INSTALLATION OF ACCESSORIES

Installation of Battery Pack

1) Fit the supplied battery pack into the batter pack trough, then slide it toward the head to insert it completely--in direction of arrowhead ①.
2) Push the battery pack lock to release the battery pack and slide it toward the bottom to remove it out--in direction of arrowhead ②.



Picture 1

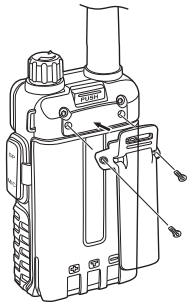


Picture 2

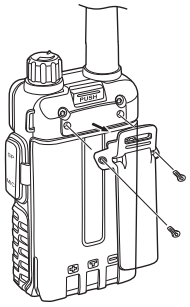
Installing Belt Clip

Align the two holds of belt clip and the two holes of the radios, fix them with the supplied M2.5x5 screws. Loosen the screw set to remove belt clip.

Picture 5, Picture 6



Picture 5



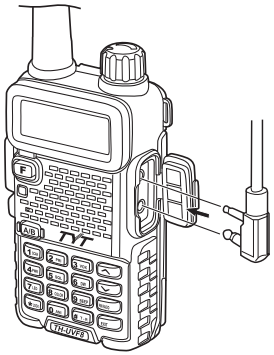
Picture 6

Installing External Micro/Speaker

Open the cover of the Mic/speaker jack and insert the microphone/speaker plugs into the jack. Picture 7

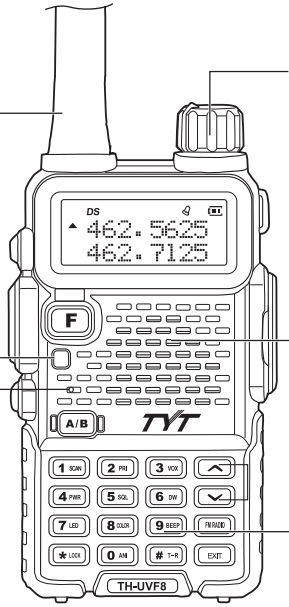
Note:

- Using the external headset or Mic/speaker will affect the water-tightness performance of radio.
- If the external headset is not workable, please use the headset case.



Picture 7

RADIO ILLUSTRATION



ANTENNA
Antenna cannot be removed

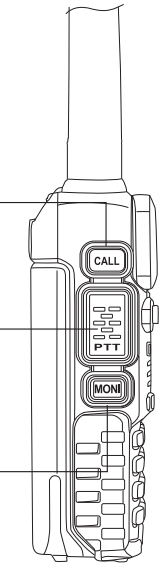
VOLUME DIAL
This control toggle the transceiver's power on/off and adjust the audio volume level.

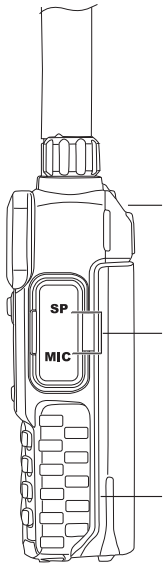
BUSY/TX
The indicator turns green during receive and turns red during transmit/ emergency alarm.

SPEAKER
The internal speaker is located here.

MIC
The internal microphone is located here.

KEYBOARD
These 18 keys select the operating features on the TH-UV6R.The function of the keys are described in details on pages 16&17.





TORCH

Belt Clip
You can clip the radio in the belt and it is easy to take.

PTT
Press it to transmit and release it to receive after your transmission is completed.

MIC/SP
The jack provides connection points for microphone audio, earphone audio, speaker

MONI
Press and hold this key disables the noise squelching action, allowing you to hear very weak signals near the back-ground noise level.

Li-ion battery
For charging the radio

Icons	Description of functions
	Squelch active
	Beep tone active
	Receive calling ID or MSG
	Scrambler active
	Battery power indicator
CT	Set CTCSS tone
DCS	Set DCS code
5T	5T 5Tone signaling active
2T	2T 2Tone signaling active
DTMF	DTMF signaling active
▲	Operating A band indicator
▼	Operating B band indicator
188	Channel number/Menu items number indicator
▲	Busy channel indicator
★	Channel scanned available under CH mode

KEYPAD FUNCTIONS

	[F]	[▲]	[▼]	[EXIT]	[1 SCAN]
Press key	Enter menu mode/confirm the setting	Upper menu item, channel or frequency	Lower menu item, channel or frequency	Switch VFO mode and MR mode/exit the setting	Frequency/ Channel No. entry “1”
Press and turn on the radio	Enter reset mode	Exchange between CH mode and VFO mode	No action	Enter channel delete	No action

	[2 PRI]	[3 VOX]	[4 POW]	[5 SQL]	[6 DW]
Press key	Frequency/ Channel No. entry “2”	Frequency/ Channel No. entry “3”	Frequency/ Channel No. entry “4”	Frequency/ Channel No. entry “5”	Frequency/ Channel No. entry “6”
Press [F] +	Enter priority TX mode item	Enter VOX level item	Enter high/low power item	Enter squelch level item	Enter dual wait/standby item

	[7 LED]	[8 CLR]	[9 BEEP]	[0 ANI]	[*LOCK]
Press key	Frequency/ Channel No. entry “7”	Frequency/ Channel No. entry “8”	Frequency/ Channel No. entry “9”	Frequency/ Channel No. entry “0”	Left cursor position when editing channel name
Press [F] +	Enter LED item	Enter color item	Enter beep item	Enter ANI item	Press and hold key to start keypad
	[# TH]	[FM-R]			
Press key	Right cursor position when editing channel name	Enter or exit FM radio mode			
	Press and hold key to start reverse frequency	Press [F] + [FM-R] to start emergency alert			

SET MENU MODE

SHORTCUT MENU OPERATION

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WORKING MODE

1) Frequency Mode (VFO)

Under this mode, you can use [▲] / [▼] key to change the frequency or input the frequency by keypad directly and store channels.

2) Frequency-Channel Mode (MR)

When you have stored a memory channel at least and under VFO mode, press [EXIT] key to enter MR mode.

The frequency will be indicated on the display and the channel No. will be indicated at the right side. If the transceiver display name option is ON and channel name edited, it will show the name of the channel.

Please see Shortcut Menu Operation 23& 24, page 36

3) Channel Mode (CH)

When you have stored a memory channel at least, it can work in CH mode. Channel No. will be indicated on the display. Please see Shortcut Menu Operation 23& 24, page 36.

4) FM Radio Mode

TH-UV8 provides frequency 88.00-108.00MHz FM radio.

Under this mode, you can choose FM frequency you need directly. Scan frequency range and store your favorite channels. Press [FM-R] to enter and exit FM radio mode.

5) MENU Mode

Press [F] key to enter MENU mode, there are 34 items in total. Please see SET MENU MODE. Page 20

6) Reset Mode

Press [F] key and switch the power on to enter Reset mode, then press [F] key to enter.

1. [▲] or [▼] key to select VFO/FULL.
2. VFO: initialize all setting under frequency mode.
3. FULL: initialize all setting under frequency and memory mode.

SET MENU MODE

No.	LCD Display	Available Values	Description of Function
01	SCAN	/	Frequency/Channel Scan
02	TX.SEL	EDIT / BUSY	Priority Transmit
03	VOX	1-8	VOX Level Setting
04	POWER	LOW / HIGH	High/Low TX Power
05	SQL	0-9	SQL level setting
06	D.WAIT	ON / OFF	Dual Wait/Standby
07	LED	ON / AUTO / OFF	LED Display mode
08	LIGHT	COLOR1 / COLOR2 / COLOR3	Background Light Color
09	BEEP	ON / OFF	Keypad Beeper Setting
10	ANI	ON / OFF	Automatic Number Identity
11	TOT	OFF / 30 / 60 / ... / 270	Transmitter Time-Out Timer
12	BCLO	OFF / WAVE / CALL	Busy Channel Lock-Out
13	VOX.SW	ON / OFF	VOX Switch ON/OFF
14	ROGER	ON / OFF	Transmit Over Beeper
15	DW	ON / OFF	Dual Watch/Monitor

No.	LCD Display	Available Values	Description of Function
16	SAVE	ON / OFF	Receive Saver
17	SCAN.S	TO / CO / SE	Scan Mode
18	AUTOLK	ON / OFF	Auto Keypad Lock
19	VOICE	ON / OFF	Voice Prompt
20	OPNSET	OFF / DC / MSG	Power-on Display
21	VLT	/	Battery Power Voltage
22	PON.MSG	-1A, @	Power-on Message
23A	OFFSET	0.000-99.995MHz	Repeater Shift (Under VFO mode)
23B	DIS.NM	ON/OFF	Display Channel Name
24	CHNAME	-1A, @	Channel Name Editing
25	C-CDC	OFF / 67.0 / D023N	TX/RX Tone coder
26	R-CDC	OFF / 67.0 / D023N	RX Tone coder
27	T-CDC	OFF / 67.0 / D023N	TX Tone coder
28	S-D	+ / - / OFF	Shift Direction
29	N/W	WIDE/NARROW	Select Channel Spacing

No.	LCD Display	Available Values	Description of Function
30	SEEK 67.0	/	CTCSS Scanning
31	SEEK D023N	/	DCS Scanning
32	SCR.NO	1-8	Voice Scrambler
33	APRO	OFF/COMP/SCRA	Voice Mode

Menu Operation

1) Under standby mode, press [F] to enter menu setting, LCD displays "**MENU**".

2) Press [^] or [v] to select the desired menu item, LCD display current setting of selected item.

3) Press [F] to enter and then press [^] or [v] to select the desired setting.

4) Press [F] to confirm.

5) Press [EXIT] twice to exit and then return the standby mode.

SHORTCUT MENU OPERATION

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
1)	Frequency /Channel scan	F + 1 SCAN	SCAN	Press [^] or [v] to change scan direction	Press [FUN] key to start scanning	F	EXIT
2)	Priority Transmit	F + 2 PRI	TX. SEL EDIT	Press [^] or [v] to select available values	EDIT / BUSY	F	EXIT
3)	VOX level setting	F + 3 VOX	VOX 4	Press [^] or [v] to select available values	VOX level: 1~9	F	EXIT
4)	TX power setting	F + 4 PWR	POW LOW	Press [^] or [v] to select available values	High / Low	F	EXIT
5)	SQL level setting	F + 5 SQL	SQL 5	Press [^] or [v] to select available values	SQL level: 0~9	F	EXIT
6)	Dual wait/ standby	F + 6 DW	D. WAIT ON	Press [^] or [v] to select available values	ON / OFF	F	EXIT
7)	LED display mode	F + 7 LED	LED AUTO	Press [^] or [v] to select available values	ON / AUTO / OFF	F	EXIT
8)	Background light color	F + 8 CLR	LIGHT COLOR1	Press [^] or [v] to select available values	1/2/3	F	EXIT
9)	Keypad beeper	F + 9 BEEP	BEEP ON	Press [^] or [v] to select available values	ON / OFF	F	EXIT

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
10)	Automatic Number Identity	F + 0 AM	ANI ON	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
11)	Transmitter time-out timer	F + 1 SCAN 1 SCAN	TOT OFF	Press [▲] or [▼] to select available values	OFF / 30... / 270s	F	EXIT
12)	Busy channel lock-out	F + 1 SCAN 2 PRI	BCLO OFF	Press [▲] or [▼] to select available values	OFF / WAVE / CALL	F	EXIT
13)	VOX switch	F + 1 SCAN 3 VOX	VOX SW OFF	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
14)	Transmit over beeper	F + 1 SCAN 4 POW	ROGER OFF	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
15)	Dual watch/ monitor	F + 1 SCAN 5 SQL	DW OFF	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
16)	Receive saver	F + 1 SCAN 6 DW	RX SAV ON	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
17)	Scan mode	F + 1 SCAN 7 LED	SCANE CO	Press [▲] or [▼] to select available values	TO / CO / SE	F	EXIT
18)	Auto keypad lock	F + 1 SCAN 8 SLK	AUTOLK OFF	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
19)	Voice prompt	F + 1 SCAN 9 BEP	VOICE ON	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
20)	Power-on display	F + 2 PRI 0 AM	OPN SET OFF	Press [▲] or [▼] to select available values	OFF / DC / MSG	F	EXIT
21)	Battery power voltage	F + 2 PRI 1 SCAN	VLT 7.6V	Press [▲] or [▼] to select available values	Show current voltage	F	EXIT
22)	Power-on message	F + 2 PRI 2 PRI	PON MSG	Press [▲] or [▼] to select available values	Edit power-on message	F	EXIT
23)	A. Repeater shift	F + 2 PRI 3 VOX	OFFSET 2.000	Press [▲] or [▼] to select available values	0.000-99.9975MHz	F	EXIT
	B. Display channel name	F + 2 PRI 3 VOX	DIS NM ON	Press [▲] or [▼] to select available values	ON / OFF	F	EXIT
24)	Channel name editing	F + 2 PRI 4 POW	CH NAME	Press [▲] or [▼] to select available values	Input channel name	F	EXIT
25)	TX/RX tone coder	F + 2 PRI 5 SQL	C-CDC 254.1	Press [▲] or [▼] to select available values	OFF / QT / DCS	F	EXIT

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
26)	RX tone coder	F + 2 / 6	R-CDC 254.1	Press [▲] or [▼] to select available values	OFF / QT / DCS	F	EXIT
27)	TX tone coder	F + 2 / 7	T-CDC 254.1	Press [▲] or [▼] to select available values	OFF / QT / DCS	F	EXIT
28)	Shift direction	F + 2 / 8	S-D OFF	Press [▲] or [▼] to select available values	+ / -	F	EXIT
29)	Wide/ Narrow band	F + 3 / 0	N/W WIDE	Press [▲] or [▼] to select available values	Wide/Narrow	F	EXIT
30)	CTCSS scan	F + 3 / 1	SEEK 67.0	Press [▲] or [▼] to select available values	Press [F] key to start scan	F	EXIT
31)	DCS scan	F + 3 / 2	SEEK D023N	Press [▲] or [▼] to select available values	Press [F] key to start scan	F	EXIT
32)	Voice Scrambler	F + 3 / 3	SCR.No 7	Press [▲] or [▼] to select available values	1-8	F	EXIT
33)	Voice mode	F + 3 / 4	APRO OFF	Press [▲] or [▼] to select available values	OFF/COMP/SCRA	F	EXIT

DETAILED FUNCTION DESCRIPTIONS

ADVANCED FUNCTIONS

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DETAILED FUNCTION DESCRIPTIONS

1) Scan & Scan Mode setting (SCAN&SCANS---MENU 1&17)

Functions: under VFO/MR/CH mode, TH-UV8 allows you to scan the entire current operating band and memory channels.

Enter Menu 1st and press [F] key to start scanning.

When you have started scanning, press [^] / [v] key to change direction. And it will halt on a signal it encounters, press **PTT** key to stop scanning; Press **MONI** key to stop scanning temporarily; Press [F] key again to exit the scanning function.

Scanning operation is basically the same in each of the above modes. Before you begin, take a moment to select the way in which you would like the scanner to halt on a signal.

Enter Menu 17th to set scan mode. Default: TO.

Three options for the scan mode are available under VFO mode:

TO: In this mode, the scanner will halt on a signal it encounters, and will hold there for some time. If you do not take action to disable the scanner within the time period, the scanner will resume even if the stations are still active.

CO: In this mode, the scanner will halt on a signal it encounters, and will hold there if the stations are still active. And after the carrier has dropped, the scanner will resume.

SE: In this mode, the scanner will halt on a signal it encounter, it will not restart automatically; you must manually re-initiate scanning if you wish to resume.

2) Priority Transmit (TX.SEL---MENU 2)

Functions: TH-UV8 allows you to transmit on the sub band even if you are working on the operating band.

Enter Menu 2nd to select priority transmit band. Default: EDIT.

EDIT: It will transmit on the operating band.

BUSY: It will transmit on the band last talking used.

3) VOX Level & VOX Switch (VOX&VOX.SW---MENU 3&13)

Functions: the VOX function provides automatic transmit/receive switching based on voice input to the microphone. With the VOX switch ON, you do not need to press **PTT** switch in order to transmit, and it is not necessary to use a VOX headset in order to utilize VOX operation.

Enter Menu 13th to set VOX switch. Default: OFF.

When the VOX is activated, the “VOX” icon will appear on the display.

Enter Menu 3rd to set VOX level. It has 8 grades.

The higher level is, the more sensitive will be.

TH-UV8R provides for adjustment of “Hang-Time” of the VOX (the transmit-receive delay after the cessation of speech) via program software.

Default: 2s.

4) TX Power setting (POW---MENU 4)

Functions: you can select high/low TX power according to your talking environment and need. When you store memories, you can store High and Low power settings separately in each memory.

Enter Menu 4th to set TX power.

High: 1W

Low: 0.5W, when you select Low power, the "L' icon will appear on the display.

5) Squelch Adjustment (SQL---MENU 5)

Functions: TH-UV8R's Squelch system allows you to mute the background noise when no signal is being received. Not only does the Squelch system "standby" operation more pleasant, it also significantly reduces battery current consumption.

Enter Menu 5th to set SQL level. Default: 5.

6) Dual Wait/Standby (D.WAIT---MENU 6)

Functions: TH-UV8R allows you to receive the sub band signal even if you are working on the operating band. It could monitor the signal under both master and sub band at the same time.

Enter Menu 6th to set Dual Wait. Default: ON.

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) Background Light Color (LIGHT---MENU 8)

Functions: choose LED background light color.

Enter Menu 8th to select background light color. Default: COLOR1.

COLOR1: Purple.

COLOR2: Blue.

COLOR3: Orange.

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-UV8R 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-UV8R 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-UV8R'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] / [F] 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; [LOCK] / [F] 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 [LOCK] key to select CTCSS/ DCS/ OFF. After you choose CTCSS/ DCS, press [▲] / [▼] key to choose the right group you need.

2) Press [F] key to select DCS direction.

TH-UV8R 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 **[DIAL]** 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 **[DIAL]** and use **PTT** key for activating the transmitter.

22) 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

23) Voice Mode and Scrambler (SCR&APRO---MENU 33&34)

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

TH-UV8R 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 33rd to set scrambler group.

Enter Menu 34th to set voice mode.

Available Values: OFF/COMP/SCRA

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 Information:

This product is compliance to FCC RF Exposure requirements and refers to FCC website https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm search for FCC ID: POD-GMRS5 to gain further information include SAR Values.

ADVANCED FUNCTIONS

1) EMERGENCY ALERT [F] + [FM-R]

Under standby mode, press [F] to enter menu setting, LCD displays "**MENU**"; then press [FM-R] 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.

2) 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.

3) REVERSE FREQUENCY ON/OFF

Under standby mode, press [#TD] 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.

4) TONE CALLING (1750Hz TONE)

To access a repeater, press and hold in [DIAL] 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 [DIAL] key and use PTT for activating the transmission.

5) WIRE CLONE

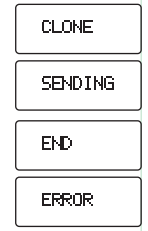
Prepare 2sets of TH-UV8R, 1pcs specific wired cloning cable.

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, both radios display "PROGRAM/ XX%", the master one blinks red while deputy one blinks green.
4) If cloning succeeds, the master one displays "PROGRAM/ 100%" and returns to clone preparation state, while deputy one powers on automatically.
5) if cloning failed, mater one displays "ERROR" or keeps "PROGRAM/ XX%" and blinks red all the time, while deputy one powers on automatically.



User's Manual

TECHNICAL PARAMETERS

GUARANTEE

http://www.tyt888.com

TECHNICAL PARAMETERS

General	
Frequency Range	Tx/Rx:462.5625~462.7125 Tx/Rx:462.5500~462.7250 Tx:467.5500~467.7250 Rx:462.5500~462.7250
Channel No.	23
Frequency stability	±2.5PPm
Antenna	High gain antenna
Antenna Impedance	50Ω
Operating Voltage	DC7.4V (Rechargeable Li-ion battery)
Mode of operation	Simple or semi-duplex
Dimensions (WxHxD)	110 x 58 x 32 mm (Not including antenna)
Transmitter	
Output power	Tx/Rx:462.5625~462.7125 1W /0.5W Tx/Rx:462.5500~462.7250 1W /0.5W Tx:467.5500~467.7250 0.5W
Modulation Mode	11k ¢ F3E
Maximum deviation	⩽5kHz / ⩽2.5KHz
Spurious Radiation	⩽7.5μW

Adjacent Ch. power	⩽−65dB / ⩽−60dB
Pre-emphasis characteristics	6db
Current	⩽1.6A(5W)
CTCSS/DCS deviation	0.5kHz±0.1kHz / 0.4kHz±0.1kHz
Intermediation sensitivity	8-12mv
Intermediation distortion	<5%

Receiver

RF Sensitivity	-122dBm(12dB SINAD)	
Audio power	1W	
Audio Distortion	＜10%	
Intermediation	⩾60dB	⩾55dB
Selectivity	⩾65dB	⩾60dB
Spurious Rejection	⩾65dB	
Blocking	⩾85dB	

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 coufirm 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.