

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 capability. We believe you are pleased with its nice shape and excellent performance.

This manual is suitable for using the model of TH-UV3R.

Welcome to use **TYT** two-way radio

<http://www.tyt888.com>

Main Functions

Dual band, dual display and dual standby

Compact and easy to operate

Chinese and English voice prompt

Voice scrambler

COMP function

Channel name editing

Dual watching function

VOX function

CTCSS/DCS scanning

Wide/narrow bandwidth selectable

Full frequency range design

Wide frequency coverage

1750Hz tone

Battery capacity management

Power protection function

Programmable multifunction key

FM radio and 25 radio stations memory

PC programming and battery charging are compatible

<http://www.tyt888.com>



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Using tips Unpacking and checking equipments

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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.

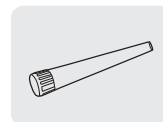
Unpacking and checking equipment

Welcome to use **TYT** TH-UV3R two-way radio. Carefully unpack the radio. We recommend you check the items listed in the following table before discarding the package. If any item is missing, please contact local dealer immediately.

Supplied accessories:



Mainframe:
TH-UV3R (1)



Antenna (1)



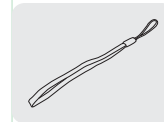
Li-ion battery (1)



Charger
Adapter (1)



Charger (1)



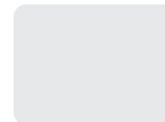
Handstrap (1)



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.

CHARGING BATTERY PACK INSTALATION OF ACCESSORIES

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Charging Precaution

The supplied battery pack of TH-UJ3R is a high-performance Li-ion battery with 3.7V standard voltage, 1300mAh 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 0℃ and 45℃. 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.

1) Normal Charging

Turn off the transceiver. Remove the battery pack out and put it into the charger. Connect Power Adapter to the charger. If the charger indicator light turns red, it is charging normally. When the charger light turns to green after charging is completed, remove the Power Adapter first then get out of the battery pack. It is full with power now.

Note: ■ It is abnormal in case of the charger blinking before sliding the battery pack into the charger.

- If the indicator light is blinking after sliding the battery pack into the charger, maybe the battery pack is damaged or over environment temperature.
- Dont remove the battery pack until the charger indicator light is stable.

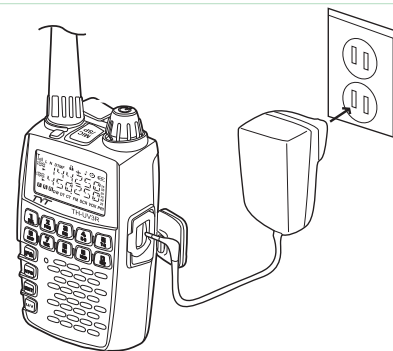
2) Using Power Adapter

If you forget the charger and only have Power Adapter, you can use Power Adapter to charge the TH-UV3R directly, as shown in the illustration to EXT DC jack.



3) Using Program Cable

If you have program cable and PC, that will be more convenient to connect the transceiver to the PC and get charging. That's TH-UV3R new feature and will give you great convenience.

Both method 2 and 3 can see the charging situation through battery capacity indicator icon on the radio.



Indicator light of charger will show charging condition

Indicator Icon	Situation
 blinks	Charging
 is full	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.

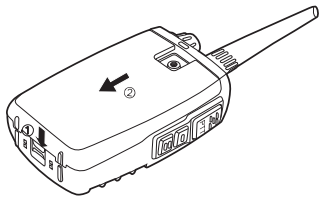
INSTALLATION OF ACCESSORIES

Installation of Battery Pack

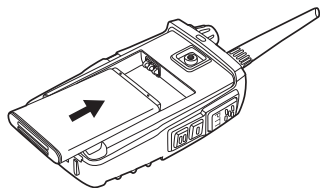
- 1) Slide the Battery Cover Latch to Unlock position—in direction of the arrowhead ①, then slide the Battery Cover toward the bottom to remove it out—in direction of arrowhead ②.

Picture 1

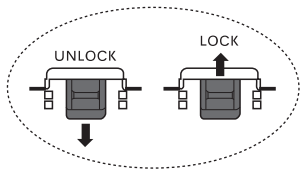
- 2) Install the supplied battery pack into Battery Compartment correctly. Picture 2



Picture 1

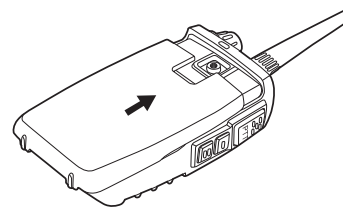


Picture 2



- 3) Return Battery Cover back and slide the Battery Cover Latch to the Lock position.

Picture 3



Picture 3

Antenna Installation

The supplied antenna provides good results over VHF or UHF range of the transceiver you need. However, for enhanced base station medium-wave and shortwave reception, you may wish to connect an external antenna, as the supplied antenna is very small and can't be expected to provide high performance at these frequencies.

The antenna has 4 different frequency bands.

To install the supplied antenna, hold the bottom end of the antenna, then screw it onto the connector on the transceiver until it is snug. Do not over-tighten by use of extreme force.

Picture 4

To uninstall the antenna, hold the bottom end of it and turn it counterclockwise to remove it.

Picture 5



Picture 4



Picture 5

Notes: ■ Never transmit without having an antenna connected.

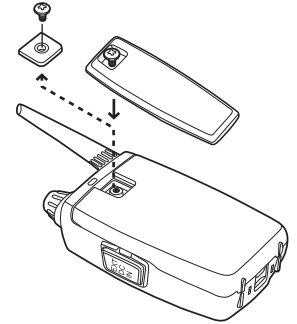
When installing the supplied antenna, never hold the upper part of the antenna while

- screwing it onto the connector on the transceiver. Or you may snap the antenna.

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 6

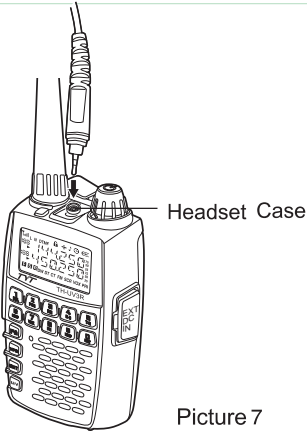


Picture 6

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.
 - If you want to use the VOX function, please use the common headset.

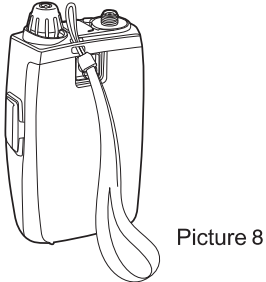


Picture 7

Wrist Strap Installation

Wear strap through the hole on the back of radio.

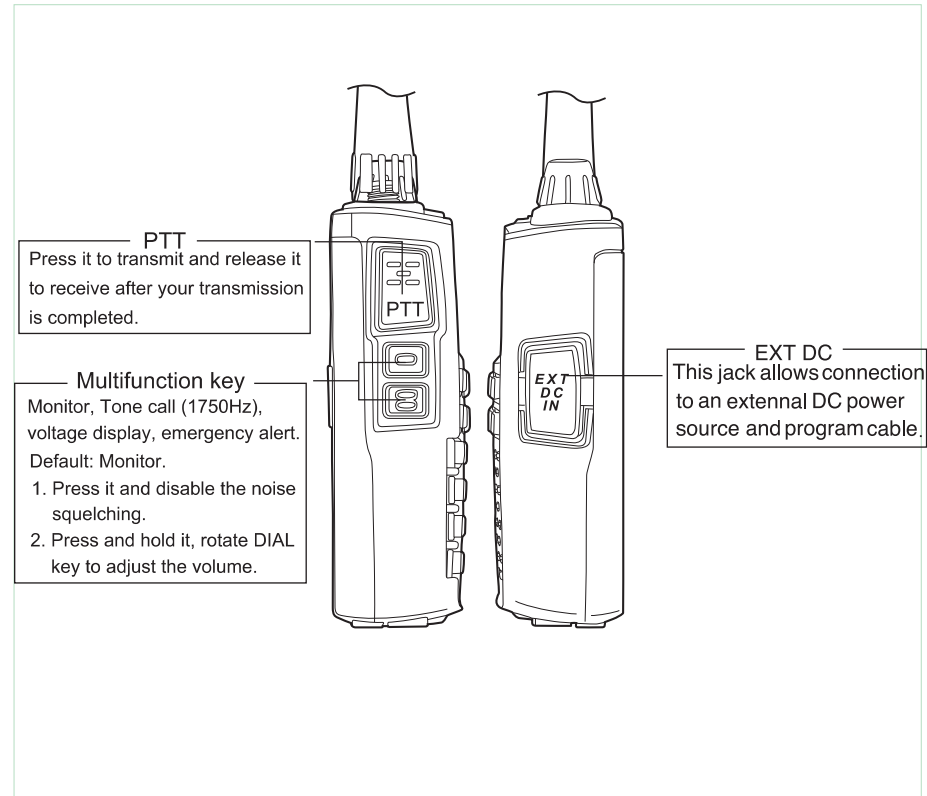
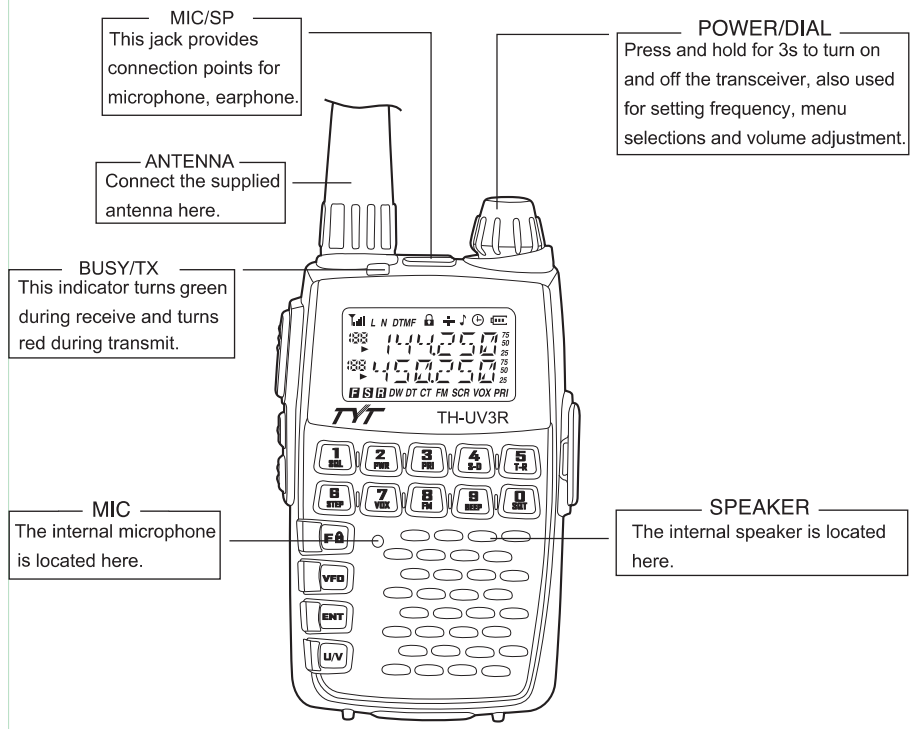
Picture 8



RADIO ILLUSTRATION LCD DISPLAY

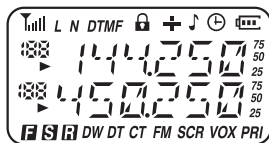
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RADIO ILLUSTRATION



LCD DISPLAY

You will see various icons shown on the screen when power on. The following table can help you identify icons' meaning which display on LCD.



Displaying working frequency, channel number or function menu



Displaying the selected channel number or function menu when the radio is on MR mode.



Indicating TX signal strength and RX signal strength

Icons	Description of functions
	Keypad lock
888	Current working channel number in MR mode
	Auto power off
	Beep tone
	Minus shift
	Plus shift
CT	CTCSS
<i>DT</i>	DCS
F	Function menu for selecting
DW	Monitor the signal under both VFO and MR mode at the same time
LOW	Low power
SCR	Scrambler function
VOX	VOX function
	Battery capacity indicator
<i>FM</i>	FM radio ON/OFF
<i>PRI</i>	Priority receiving channel when signal receiving or signal scanning

WORKING MODE
BASIC OPERATION
SHORTCUT OPERATION
NUMBER KEY OPERATION


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WORKING MODE

I . Frequency Mode(VFO)


Under this mode, you can use POWER/DIAL knob to change the frequency or input the frequency by keypad directly.

II . Frequency-Memory Channel Mode(MR)

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

The frequency will be indicated on the display and the channel No. will be indicated at the right top. If the transceiver display name option is "ON", it will show the name of the channel. Please see Menu operation ITEM 09. Page 32

III. Channel Mode(CH)

When you have stored a memory channel at least, press [] key and switch power on the radio, enter CH mode. Channel No. will be indicated on the display and if the transceiver display name option is "ON", it will show the name of the channel. Please see Menu Operation ITEM 09. Page 32

IV . FM Radio Mode

TH-UV3R provides frequency 76.00-108.00MHz FM radio

Under this mode, you can choose the FM frequency you need directly. Scan frequency range and store your favorite channels, please see Shortcut Operation ITEM 8. Page 25

V. MENU Mode

Press [**F/B**] key + [**ENT**] key to enter MENU mode, there are 20 items in total. Please see MENU OPERATION. Page 29

BASIC OPERATION

I. Switching Power On And Off

1. Be sure the battery pack is installed and connect the antenna correctly.
2. Press and hold POWER/DIAL knob for 3 seconds, a "POWER ON" voice will be heard, the current voltage will be indicated on the display, then the display will resume its normal indication of the operating frequency.
3. To turn off the TH-UV3R, press and hold POWER/DIAL again for 3 seconds.

Note: If you don't hear the "POWER ON" voice when the radio power on, the Beep function may have been disabled via Shortcut Operation ITEM 9. Page 24

II. Frequency Adjustment

The TH-UV3R will be operating in the VFO mode, a channelized system which allows free tuning throughout the operating band.

Rotation of the POWER/DIAL knob allows turning in the pre-programmed steps established for the operating band. Clockwise rotation of the DIAL causes it toward a higher frequency, while counter-clockwise rotation will toward lower frequency.

III. Transmission




1. Press PTT switch, and speak into the front panel microphone in a normal voice level. The BUSY/TX indicator will turn red during transmission. Release PTT switch to return to the receive mode.
2. During transmission, the relative power level will be indicated at the bottom of the LCD. Full scale deflection confirms "High Power" and deflection of four bars indicates "Low Power". Also "Low" icon will appear at the bottom of the display while operating on the "Low Power" setting Shortcut Operation ITEM 2. Page 23

IV. Keypad Lock

In order to prevent accidental frequency change or inadvertent transmission, the TH-UV3R provides KEYPAD LOCK function, you can activate it by Manual or Auto activates it. Please see Menu Operation ITEM 22. Page 36

1. Press [**F/B**] key + [**ENT**] key to enter MENU mode.
2. Rotate the POWER/DIAL knob to select ITEM 22:KEY LK
3. Press [**ENT**] key to enable adjustment of this function.
4. Rotate the POWER/DIAL knob to choose between Manual and Auto.
5. When you have made your selection, press [**ENT**] key to save the new setting and return to MENU mode.

Note: ■ And in this mode, if you rotate POWER/DIAL knob, you will adjust the volume.

- When you choose Manual Keypad Lock, press [] key to lock the keypad.
- When the keypad is locked, the [] icon will be indicated on the top of LCD.
- Press [] key again for 3 seconds to unlock it.

V. Multifunction side key operation

The TH-UV3R provides two multifunction side keys for you. Both of them have the same options.

And you can set their function via program software according to your requirement.

There are six different options as below:

A. None

B. Monitor and volume adjustment:

When you set this function to the side key, press and hold it, the transceiver will be into Monitor state and talking volume will be indicated on the LCD. Rotate the POWER/DIAL knob to adjust it as your need.

C. Tone Calling (1750Hz)

If the repeaters in your country require a 1750Hz burst tone for access (typically in Europe), you can set the side key to serve as a T-Call key.

To access a repeater, press and hold in T-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 T-Call key and use PTT for activating the transmission.



D. Emergency Alarm

When set this as emergency alarm function, short press to start emergency alarm, press PTT to transmit alarm signal, then press any key to exit. Long press to start emergency alarm and transmit alarm signal, it will exit when you loose it.



SHORTCUT OPERATION

The users can operate the TH-UV3R rapidly via [] + other keys. Details are as below.

1) Squelch grade setting(F+1)

Press [] key + number key [] key to enter squelch grade setting:0~9 grades.
Rotate the DIAL knob to adjust it.



2) High/Low power setting(F+2)

Press [] key + number key [] key to enter High/Low power setting.
Rotate the DIAL knob to adjust and when you select Low power, a "LOW" icon will appear at the bottom of the LCD.


3) Priority scan setting(F+3)

Press [] key + number key [] key to enter priority scan setting.
Note that this function is only available under MR and CH mode.



4) Shift offset direction setting(F+4)

Press [] key + number key [] key to enter Shift offset direction setting under VFO mode. Rotate the DIAL knob to choose downward (-) or upward (+).And one of these icons will appear at the top of the LCD when repeater shifts have been enabled.



5) Frequency reverse setting(F+5)

Press [] key + number key [] key to enter frequency reverse setting.
Note that this function is only available under VFO mode.

6) Channel spacing step setting(F+6)



Press [] key + number key [] to enter frequency step setting. Rotate the DIAL knob to select 6.25/12.5/25.0/50.0/100.0KHz.



7) VOX switch on/off setting(F+7)

Press [] key + number key [] to enter VOX switch on/off setting. Rotate the DIAL knob to select ON/OFF.

Regarding VOX level setting please see MENU OPERATION ITEM 23. Page 36.



8) FM radio mode(F+8)

Press [] key + number key [] to enter FM radio mode. A FM icon will appear on the bottom of the LCD.

Rotate the DIAL knob to select FM frequency or directly input the frequency by keypad. FM radio frequency range is 76.00~108.00MHz. Press [] key + number key [] again to exit.

Under FM Radio mode, TH-UV3R can monitor the receiver signals. When there is a call, TH-UV3R will exit FM radio mode temporarily and receive the call. After finishing the call for 5 seconds, return back FM radio mode automatically.

9) Keypad beeper setting.(F+9)

Press [] key + number key [] to enter keypad beeper setting. Rotate the DIAL knob to select OFF/TONE/VOICE.

10) CTCSS/DCS setting(F+0)

Press [] key + number key [] to enter CTCSS/DCS setting.

1. Switch between RX and TX via [**F/B**] key.
2. Switch between CTCSS and DCS via [**VFO**] key.
OFF->CTCSS->DCS N->DCS I->OFF
3. Rotate the DIAL knob to select CTCSS/DCS.
4. Press [**ENT**] key to confirm and [**U/V**] to exit.

11) Scanning function(F+VFO)

Press [**F/B**] key + [**VFO**] key to start scanning function. Rotate the DIAL knob to change scanning direction. You can scan under VFO, MR and CH mode as your requirement.

12) Channel Storage(F+U/V)

Press [**F/B**] key + [**U/V**] key to store the channels you desired, and you can input the channel number via keypad directly. Rotate the DIAL knob to select channel number and press [**ENT**] key to store.

13) Menu mode(F+ENT)

Press [**F/B**] key+ [**ENT**] key to enter menu mode. Pls see Menu Operation. Page 30

NUMBER KEY OPERATION

Under VFO mode, you can select the frequency by number key directly. If the input number is out of band, it will prompt "ERROR". If you input frequency is available, the transceiver will enter your desired frequency. Under channel mode, press number key to change the current channel.

SET MENU MODE

MENU OPERATION

DESCRIPTION AND SETTING OF OPERATION MENU

TECHNICAL PARAMETERS

GUARANTEE

<http://www.tyt888.com>

SET MENU MODE

Set Menu Mode	Icon and Function	Available Values
1	TX_SEL (Priority Transmit)	BUSY/EDIT
2	APRO (Voice Mode)	OFF/COMP/SCRM
3	BCLO (Busy Channel Lock)	OFF/ON
4	W/N (Wide/Narrow Band)	WIDE/NARROW
5	TAIL (End-tone Elimination)	OFF/ON
6	SCAN (Scan Added)	ADD/DEL
7	OFFSET (Shift Frequency Setting)	0.000-99.950MHz
8	CH-NAM (Channel Name Setting)	0-9,A-Z, +, -, /, _
9	NAM_SW (Channel Name Displaying)	OFF/ON
10	OPENS (Power-on Display)	OFF/DC/MSG
11	MSG (Power-on Message)	0-9, A-Z, +, -, /, _
12	D_WAIT (Dual Watching)	OFF/ON
13	LAMP (Back Light Setting)	OFF/ON/AUTO
14	DC (Battery Voltage Display)	CURRENT VOLTAGE
15	1750_S (1750 TX)	OFF/1-15S
16	TOT (Time-out-timer)	OFF/30-360S
17	RX_SAV (Battery Saving Mode)	OFF/1-1/1-2/1-3/1-4
18	SCAN-S (Scan Mode setting)	CO/TO/SE

Set Menu Mode	Icon and Function	Available Values
19	SCAN_V (Scan velocity setting)	100ms, 150ms, 500ms
20	APO_SW (Auto Power-off setting)	OFF/30-180S
21	RX_ALT(RX Alarm Setting)	OFF/ON
22	KEY_LK (Key Lock Setting)	AUTO/MANUAL
23	VOX_LV (VOX Level Setting) (1-9)	1-9
24	VOX-DV (VOX ending delay time)	0.5S, 1.0S, 2.0S, 3.0S
25	FM_STP (FM radio Frequency Step setting)	25K, 50K, 100K, 200K
26	SK_CTS (CTCSS Scan)	67.0Hz-2541.0Hz
27	SK_DCS(DCS Scan)	D023N-D754N, D023I-D0754I

MENU OPERATION

Press [**F/A**] key, "F" will be indicated at the left bottom of the LCD, and then press [**ENT**] key, LCD displays "MENU" to enter menu mode. Rotate encoder key to select the menu items, then press [**ENT**] key to enter the desired menu. Rotate encoder key to select the desired one, then press [**ENT**] key to confirm. During operation, press [**U/V**] key to exit and back to the last menu, press [**VFO**] key to exit menu mode.

DESCRIPTION AND SETTING OF FUNCTION MENU

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

Functions: TH-UV3R 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.

2) Voice mode (APRO)

Set it through menu 2, two modes are available

1) **OFF**

2) **COMP:** voice compander

3) **SCRM:** voice scrambler

3) Busy channel lock (BCLO)

ON: busy channel lock function is on

OFF: busy channel lock function is off

4) Wide/narrow bandwidth selectable (W-N)

Press [**F/A**], and then press [**ENT**] key, rotate the POWER/DIAL knob key to select Menu 3, LCD displays "W-N", press [**ENT**] to select "WIDE" or "NARROW", press PTT or [**ENT**] key to confirm then press [**U/V**] key to exit.

WIDE: wide bandwidth is selected,

NARROW: narrow bandwidth is selected,

5) End tone elimination (TAIL)

It can eliminate nasty sound when transmission is finished. The benefit of this function is particularly evident for those using earphone.

Note: This function will only activate when other radios also turn on TAIL function.

6) Scan added (SCAN)

Press [**F1/B**], and then press [**ENT**] key , rotate the POWER/DIAL knob key to select Menu 6, LCD displays "SACN" , press [**ENT**] to enter and rotate the POWER/DIAL knob key to select "ADD" or "DEL". Press PTT or [**ENT**] key to confirm then press [**U/V**] key to exit. This function is only available under channel mode in order to add scan function into the current channel.

ADD: scan added

DEL: scan deleted

7) Offset frequency (DIFFER)

Press [**F1/B**], and then press [**ENT**] key , rotate the POWER/DIAL knob key to select Menu 5, LCD displays "DIFFER" , press [**ENT**] to enter and rotate the POWER/DIAL knob key to select the differ frequency from 00.000MHz-70.000MHz. Press PTT or [**ENT**] key to confirm then press [**U/V**] key to exit.

8) Channel name setting (CH_NAM)

Channel name can be edited by users, 6 digits or letters in maximum, this function is only available under channel mode. Under CH and MR mode, press [**F1/B**], and then

press [**ENT**] key , rotate the POWER/DIAL knob key to select Menu 8, LCD displays "NAME" , press [**ENT**] to enter, the first digit blinks on the screen, rotate the POWER/DIAL knob key to choose from "0" - "9" and "A" - "Z" , press [**VFO**] key to switch to next character, press [**U/V**] key to back to last character, then press [**ENT**] key to confirm the setting

9) Channel name displaying (NAM_SW)

Under CH and MR mode, rotate DIAL/VOLUME knob to swift "ON" and "OFF"

"ON": display as channel name you edit

"OFF": display as frequency

Note: please edit the channel name first when you swift as "ON"

10) Power on message displaying (OPEN_S)

The desired power on message will be displayed when you turn on the radio

1) **OFF:** normal power on, displaying frequency or channel number directly

2) **MSG:** displaying your edited power-on message

3) **DC:** displaying current battery voltage

11) Power on message setting (MSG)

Power on message can be edited, 6 digits or letters in maximum

a. when the first digit blinks on the screen, rotate DIAL/POWER knob to choose from "0"- "9", "A"- "Z", " ", "+", "-", "*", "/", and "_".

b. press number key 2 to switch to nest character, press number key 1 to back to last character, and press number key 0 to delete current edited one






c. press [] to confirm

12) Dual monitor (D_WAIT)

OFF: dual monitor is on, radio works under both channels

ON: dual monitor is off, radio works under only current channel

13) Backlight setting (LAMP)

Press [], and then press [] key , rotate the POWER/DIAL knob key to select Menu 10, LCD displays "LAMP" , press [] to enter and rotate the POWER/DIAL knob key to select the mode, press PTT or [] key to confirm then press [] key to exit.

ON: LCD backlight will be turned on constantly

OFF: LCD backlight will be turned off constantly

AUTO: Keypad and LCD backlight will be turned on upon any operation, and stay for 5 seconds. It will be automatically turned off when there is not any operation.

14) Battery Voltage (DC)

Display battery current voltage.

15) 1750Hz tone transmit setting (1750_S)

To press [PTT] to transmit 1750Hz tone or not






OFF: not to transmit 1750Hz tone

ON: to transmit 1750Hz tone and transmitting time can be adjusted and is 1-15S






16) Time out timer (TOT)

To prevent radio from being damaged due to continue transmission for a long time, the radio will alert you when transmission time limit is up.

A transmitting time can be selected: OFF, 15S, 30S, 45S, 60S, 75S, 90S, 105S, 120S, 135S, 150S, 165S, 180S, 195S, 210S, 225S, 240S, 255S, 270S, 285S, 300S, 315S, 330S, 345S, 360S, 375S, 390S, 405S, 420S, 435S, 450S, 465S, 480S, 495S, 510S, 525S, 540S, 555S, 570S, 585S, 600S.

Press [], and then press [] key , rotate the POWER/DIAL knob key to select Menu 12, LCD displays "TOT" , press [] to enter and rotate the POWER/DIAL key to select the time, press PTT or [] key to confirm then press [] key to exit.




17) Rx power saving (RX_SAV)

Press [], and then press [] key , rotate the POWER/DIAL knob key to select Menu 13, LCD displays "SAVE" , press [] to enter and rotate the POWER/DIAL knob key to select the time, press PTT or [] key to confirm then press [] key to exit.

OFF: RX power saving function is off

Level: 1:1, 1:2, 1:3, 1:4, the higher the level, the better the performance of RX power saving.

18) Scan mode selecting (SCAN_S)

Press [], and then press [] key , rotate the POWER/DIAL knob key to select Menu 11, LCD displays "SCANS" , press [] to enter and rotate the POWER/DIAL

knob key to select scan mode, press PTT or [**ENT**] key to confirm then press [**UV**] key to exit.

a. Time-operated scan(TO)

The radio will stop scanning if there is signal and stay for 5S. it will continue scanning even the signals still exists.

b. Carrier-operated scan(CO)

The radio will stop scanning if there is signal and stay in the same frequency till the signal disappears. Before the radio begins scan again, there will be 15S for the radio to transmit and receive.

c. Search scan(SE)

The radio will stop scanning if there is signal and stay in the same frequency, and then exits.

19) Scan velocity setting (SACN_V)

It can adjust the time for scanning, the available values are 50ms, 100ms, 150ms, 200ms, 250ms, 300ms, 350ms, 400ms, 450ms, 500ms.

20) Auto power off (APO_SW)

Press [**F/B**] , and then press [**ENT**] key , rotate the POWER/DIAL knob key to select Menu 14, LCD displays "APO" , press [**ENT**] to enter and rotate the POWER/DIAL knob key to select the tome, press PTT or [**ENT**] key to confirm then press [**UV**] key to exit.If APO is on, The radio will be turned off when there is no operation within the pre-determined time.

OFF: APO is off

30MIN, 60MIN, 90MIN, 120MIN, 150MIN, 180MIN mean that the radio will turn off when there is no operation after these pre-determined time.

21) Emergency alert receiving (RX_ALT)

OFF: won't receive the emergency alert

ON: receive the emergency alert

22) Lock mode (KEY_LK)

AUTO: radio will be locked automatically if there is not any operation within 8S

MANUTO: long press [**F/B**] for 2S to lock the keypad

23) VOX level setting (VOX_LV)

VOX sensibility can be adjusted by setting VOX level, Level 1 is the lowest, so it needs the strongest voice.

24) VOX ending delay time (VOX_DV)

The radio resumes to receiving mode soon after transmitting, your TX voice may sometimes not be sent out successfully. To avoid this problem, you can adjust VOX delay time after transmission. The available values are 1.5S, 1.0S, 2.0S, 3.0S.

25) FM radio frequency step (FM_STP)

To select frequency step for FM radio, the available values are 25K, 50K, 100K, 200K.

26) CTCSS scanning (SK_CTS)

Press [**F/A**], and then press [**ENT**] key , rotate the POWER/DIAL knob key to select Menu 19, LCD displays "SK CTS" , press [**ENT**] to begin scanning, press PTT or [**ENT**] key to confirm then press [**U/V**] key to exit. The radio will stop scanning when a same CTCSS code of other radios is received., and CTCSS code blinks. Rotate the POWER/DIAL knob key to change scanning direction.

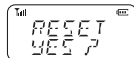
27) DCS scanning (SK_DCS)

Press [**F/A**], and then press [**ENT**] key , rotate the POWER/DIAL knob key to select Menu 20, LCD displays "SK DCS" , press [**ENT**] to begin scanning, press PTT or [**ENT**] key to confirm then press [**U/V**] key to exit. The radio will stop scanning when a same CTCSS code of other radios is received and DCS code blinks. Rotate the POWER/DIAL knob key to change scanning direction.

Reset

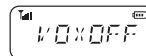
It is used to clear all the settings.

- 1) Press and hold [**F/A**] key to turn on radio, LCD displays "**RESET YES ?**", then press [**ENT**] to enter it, you will hear first sound, which means RESET begins and it finished when you hear second sound then radios enter VFO mode automatically



VOX OFF

Press [**U/V**] to turn on the radio, LCD displays "**VOXOFF**" and then you will heard a sound, VOX function is off. To turn off the VOX is to avoid radio transmit continuously when you turn on the radio and VOX is on and sensitive.



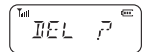
CHANNEL STORAGE AND DELETE

Channel Storage

Under VFO mode, input desired frequency by keypad directly or select one by rotating the knob, and then press [**F/A**] + [**U/V**], the digits blinks at the left top of frequency, press number to input desired channel directly or rotate the knob to choose desired one, then press [**ENT**] for storage.

Channel delete

- 1) Under MR or CH mode, press [**U/V**] to turn on the radio, LCD displays "**DEL ?**" and channel number blinks at the right top of LCD.
- 2) Rotate the knob or input channel number you want to delete, then press [**ENT**] to confirm
- 3) After delete, it will skip into next channel, if you want to delete it, repeat above operation.



FM RADIO STORAGE AND DELETE

1) FM radio storage

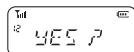
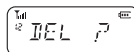
Under FM frequency mode, press [**F/A**] and then press [**UV**], the channel number for storage blinks at the left top of frequency. Rotate the knob or use number key to select the desired channel number, press [**ENT**] to confirm.

2) Mode selection:

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

3) FM radio channel delete:

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



User's Manual

SPECIFICATION

<http://www.tyt888.com>

SPECIFICATION

General	
Frequency Range	FM: 76-108MHz 134-174MHz/200-260MHz/ 245-246MHz/320-400Mhz/ 400-470MHz/470-520MHz
Channel Capacity	128
Antenna	High gain antenna
Antenna Impedence	50 Ω
Working Voltage	DC3.6V
Working Mode	Simplex
Dimensions	84x48x26mm
Transmit	
Output Power	≤ 2.0W(H) ≤ 0.8W(L)
Modulation (W/N)	16k Φ F3E/ 11k Φ F3E
Max. Deviation (W/N)	<5kHz/<2.5KHZ
Spurious Radiation	<7μW
Adjacent Channel Power	≥ 65dB/ ≥ 60db
Pre-emphasis Character	6db
Emission Current	≤ 1.5A

QT/DQT Deviation (W/N)	0.5KHz ± 0.1kHz 0.7KHz ± 0.1kHz
Modulation Sensitivity	8-12mv
Modulation Distortion	< 5%
Receive	
Sensitivity	-122dbm(12db SINAD)
Audio Power	>0.5W
Audio Distortion	< 5%
Intermodulation (W/N)	≥ 60dB ≥ 55dB
Adjacent Channel Selectivity (W/N)	≥ 65dB ≥ 60dB
Spurious Radiation	≥ 65dB
Blocking	≥ 85dB

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.

— — — — — Please cut along with this line — — — — —

