

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-UVF9.

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

<http://www.tyt888.com>

Main Functions

Dual band, dual display, dual standby
A/B band independent operation
2 x 128 channels storage and scanning
Shortcut menu operation mode
FM radio and 25 stations memory
CTCSS/DCS and tone search scanning
Repeater shifts and ARS function
Tone calling 1750Hz tone
25kHz/12.5kHz channel spacing switchable
High/middle/low TX power switchable
Multi working mode switchable
PTT ID and MSK/DTMF encode
Vibration alert function (Optional)
Man down (optional)
8 groups of scrambler (Optional)
Remote stun/kill/activate (Optional)
2T/5T/DTMF encoder and decoder (optional)

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USING TIPS

UNPACKING AND CHECKING EQUIPMENT

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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.

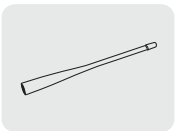
UNPACKING AND CHECKING EQUIPMENT

Welcome to use **TYT** TH-UVF9 transceiver. Please check if any damage to the package when you 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-UVF9 Body (1)



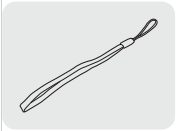
Antenna (1)



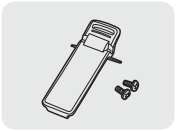
Li-ion battery (1)



Power Adapter (1)



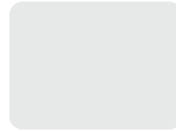
Handstrap (1)



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 INSTALLATION OF ACCESSORIES

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CHARGING BATTERY PACK

Charging Precaution

The supplied battery pack of TH-UVF9 is a high-performance Li-ion battery with 7.4V standard voltage, 1500mAh 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 may be 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.

Indicator light of charger will show charging condition

Indicator Display	Status
Red	Charging
Green	Completed

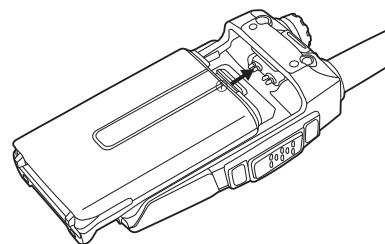
Battery Tips:

- 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.

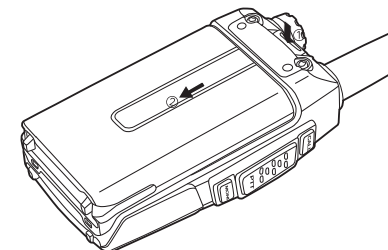
INSTALLATION OF ACCESSORIES

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

Antenna Installation

The supplied high gain antenna provides high performance at the entire VHF/UHF frequency range of the transceiver.

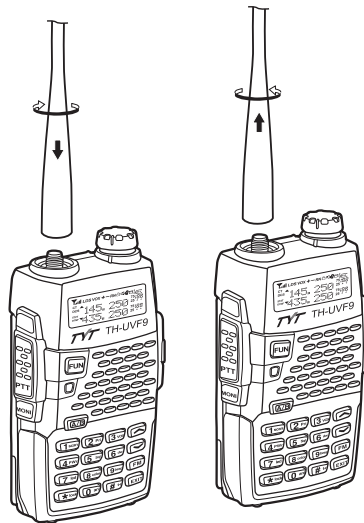
To install the supplied antenna, hold the bottom end of the antenna, then screw it onto the connector on the transceiver until it is snug. Do not over-tighten by use of extreme force.

Picture 3

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

Picture 4

- 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.



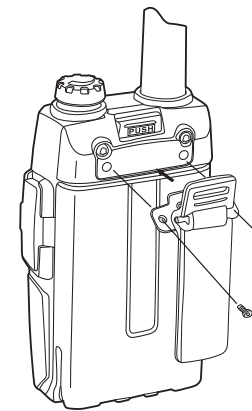
Picture 3

Picture 4

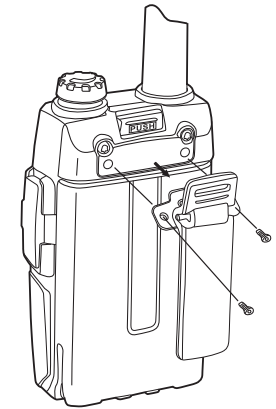
Installing Belt Clip

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

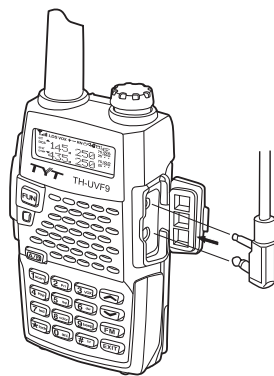


Picture 6

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.

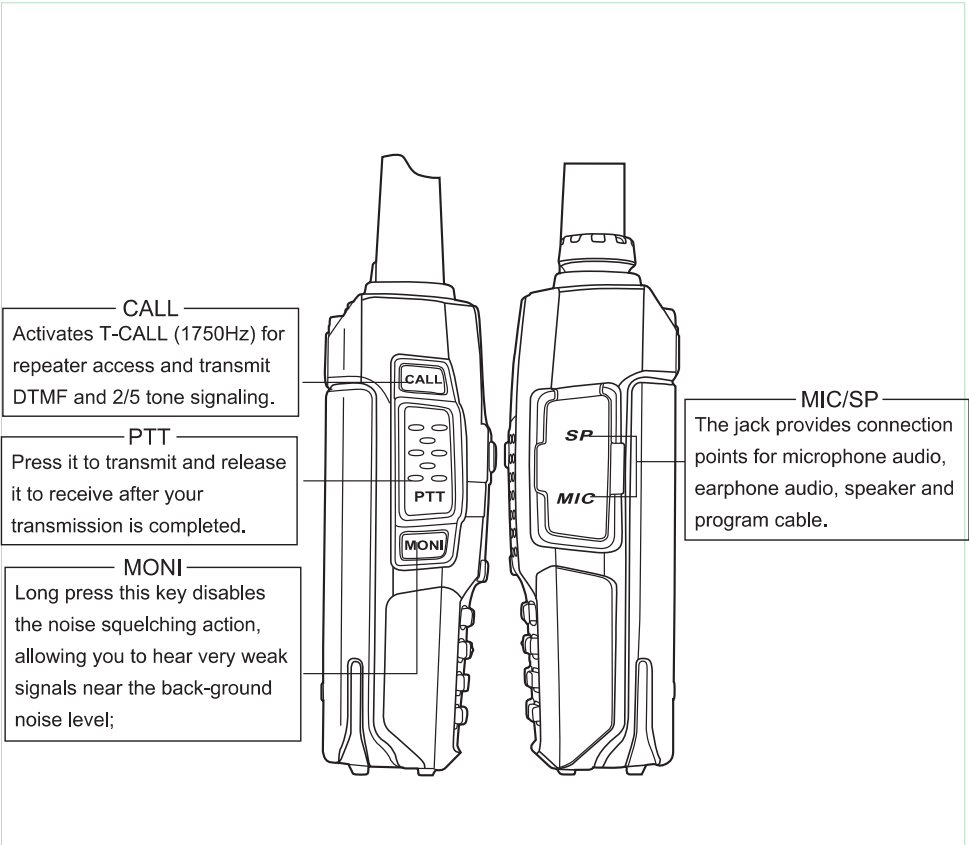
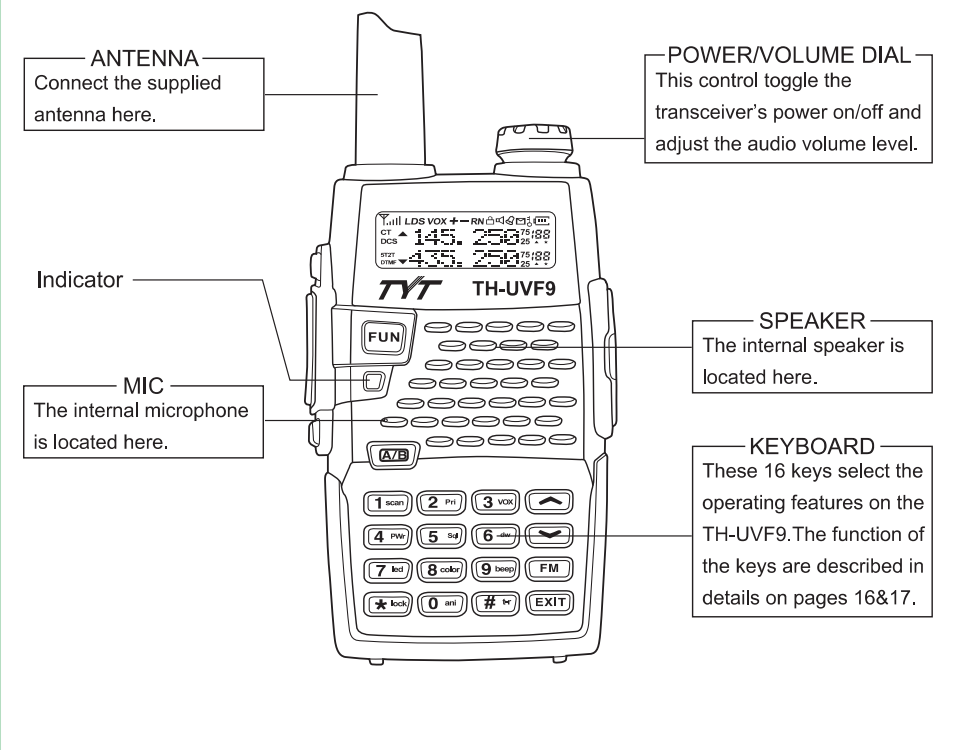


Picture 7

GETTING FAMILIAR

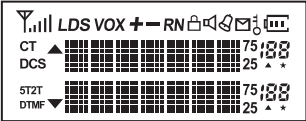
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RADIO ILLUSTRATION



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.



Icons	Description of functions
	Operating band signal & power meter
L	Low TX power active
D	Dual watch/standby active
S	RX power save active
VOX	VOX active
+ -	Repeater shift direction and ARS active
R	Reverses the transmit and receive frequency active
N	Narrow band mode active
	Keypad lock active

Icons	Description of functions
	Squelch active
	Beep tone active
	Receive calling ID or MSG
	Scrambler active
	Battery power indicator
CT	CTCSS decoder active
DCS	DCS decoder active
5T	5 Tone signaling active
2T	2 Tone signaling active
DTMF	DTMF signaling active
▲	Operating A band indicator
▼	Operating B band indicator
75 25	Frequency mantissa indicator
188	Channel number/Menu items number indicator
▲	Busy channel indicator
★	Channel scanned available under CH mode

KEYPAD FUNCTIONS

	[FUN]	[A/B]	[^]	[v]	[EXT]
Press key	Enter menu mode/confirm the setting	Switch the A or B frequency to be the “Operating” Band	Upper menu item, channel or frequency	Lower menu item, channel or frequency	Switch VFO mode and MR mode/exit the setting
Press and turn on the radio	Enter reset mode	No action	Switch CH mode and VFO mode	No action	No action
	[1 SCAN]	[2 PRG]	[3 VOX]	[4 PWR]	[5 SQT]
Press key	Frequency/ Channel No. entry “1”	Frequency/ Channel No. entry “2”	Frequency/ Channel No. entry “3”	Frequency/ Channel No. entry “4”	Frequency/ Channel No. entry “5”
Press [FUN] +	Enter scan item	Enter priority TX mode item	Enter VOX level item	Enter high/low power item	Enter squelch level item

	[6 2W]	[7 LED]	[8 CLIP]	[9 BEEP]	[0 ANI]
Press key	Frequency/ Channel No. entry “6”	Frequency/ Channel No. entry “7”	Frequency/ Channel No. entry “8”	Frequency/ Channel No. entry “9”	Frequency/ Channel No. entry “0”
Press [FUN] +	Enter dual wait/standby item	Enter LED item	Enter Brightness item	Enter beep item	Enter ANI item
	[* LOCK]	[# T-R]	[19 RAD]		
Press key	Left cursor position when editing channel name	Right cursor position when editing channel name	Enter or exit FM radio mode		
	Press and hold key to start keypad lock.	Press and hold key to start reverse frequency	Press [FUN] + [19 RAD] to start emergency alert		

WORKING MODE 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 [] 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 Item 23&24. Page 36.

3) 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 mode option is ON, it will show the name of the channel.

Please see Shortcut Menu Operation Item 23&24. Page 36.

4) FM Radio Mode

TH-UVF9 provides frequency 76.00-108.00MHz FM radio.

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

5) MENU Mode

Press [] key to enter MENU mode, there are 34 items in total. Please see SET MENU MODE. Page 21

6) Reset Mode

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

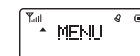
No.	LCD Display	Available Values	Description of Function
01	SCAN	/	Frequency/Channel Scan
02	TX.SEL	EDIT / BUSY	Priority Transmit
03	VOX	1-8	VOX Level Setting
04	POWER	LOW / HIGH	High/Low TX Power
05	SQL	0-9	SQL level setting
06	D.WAIT	ON / OFF	Dual Wait/Standby
07	LED	ON / AUTO / OFF	LED Display mode
08	LIGHT	COLOR1 / COLOR2 / COLOR3	Backlight brightness setting
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	RX.SAV	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	VLG	/	Battery Power Voltage
22	PONMSG	-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	STEP	5K / 6.25K / ... / 25K	VFO Step

No.	LCD Display	Available Values	Description of Function
30	N/W	WIDE/NARROW	Wide/Narrow Band
31	SEEK 67.0	/	CTCSS Scanning
32	SEEK D023N	/	DCS Scanning
33	DALARM	ON/OFF	Man Down
34	VIBRATE	ON/OFF	Vibration
35	SCR.NO	1-8	Voice scrambler
36	APRO	OFF/COMP/SCRA	voice mode

Menu Operation

- 1) Under standby mode, press [**FUN**] to enter menu setting, LCD displays "MENU".
- 2) Press [] or [] to select the desired menu item, LCD display current setting of selected item.
- 3) Press [**FUN**] to enter and then press [] or [] to select the desired setting.
- 4) Press [**FUN**] to confirm.
- 5) Press [**EXIT**] twice to exit and then return to standby mode.



SHORTCUT MENU OPERATION

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
1)	Frequency /Channel scan	FUN + 1 scan	SCAN	Press (▲) or (▼) to change scan direction	Press [FUN] key to start scanning	FUN	Press [EXIT] twice to exit
2)	Priority Transmit	FUN + 2 pri	TX SEL EDIT	Press (▲) or (▼) to select available values	EDIT / BUSY	FUN	Press [EXIT] twice to exit
3)	VOX level setting	FUN + 3 vox	VOX 4	Press (▲) or (▼) to select available values	VOX level: 1~8	FUN	Press [EXIT] twice to exit
4)	TX power setting	FUN + 4 pow	POW LOW	Press (▲) or (▼) to select available values	High / Low	FUN	Press [EXIT] twice to exit
5)	SQL level setting	FUN + 5 sql	SQL 5	Press (▲) or (▼) to select available values	SQL level: 0~9	FUN	Press [EXIT] twice to exit
6)	Dual wait/standby	FUN + 6 dw	D. WAIT ON	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit
7)	LED display mode	FUN + 7 led	LED AUTO	Press (▲) or (▼) to select available values	ON / AUTO / OFF	FUN	Press [EXIT] twice to exit
8)	Backlight brightness setting	FUN + 8 color	LIGHT COLOR1	Press (▲) or (▼) to select available values	COLOR1 / COLOR2 / COLOR3	FUN	Press [EXIT] twice to exit
9)	Keypad beeper	FUN + 9 beep	BEEP ON	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
10)	Automatic Number Identity	FUN + 0 ani	ANI ON	Press (▲) or (▼) to change scan direction	ON / OFF	FUN	Press [EXIT] twice to exit
11)	Transmitter time-out timer	FUN + 1 scan	TOT OFF	Press (▲) or (▼) to select available values	OFF / 30... / 270s	FUN	Press [EXIT] twice to exit
12)	Busy channel lock-out	FUN + 1 scan	BCLO OFF	Press (▲) or (▼) to select available values	OFF / WAVE / CALL	FUN	Press [EXIT] twice to exit
13)	VOX switch	FUN + 1 scan	VOX SW OFF	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit
14)	Transmit over beeper	FUN + 1 scan	ROGER OFF	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit
15)	Dual watch/monitor	FUN + 1 scan	DW OFF	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit
16)	Receive saver	FUN + 1 scan	RX. SAV ON	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit
17)	Scan mode	FUN + 1 scan	SCANS CO	Press (▲) or (▼) to select available values	TO / CO / SE	FUN	Press [EXIT] twice to exit
18)	Auto keypad lock	FUN + 1 scan	AUTOLK OFF	Press (▲) or (▼) to select available values	ON / OFF	FUN	Press [EXIT] twice to exit

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
19)	Voice prompt	FUN + 1	VOICE ON	Press or to select available values	ON / OFF		Press twice to exit
20)	Power-on display	FUN + 2	OPN. SET OFF	Press or to select available values	OFF / DC / MSG		Press twice to exit
21)	Battery power voltage	FUN + 2	ULT 7.6V	Press or to select available values	Show current voltage		Press twice to exit
22)	Power-on message	FUN + 2	PWN. MSG	Press or to select available values	Edit power-on message		Press twice to exit
23)	A. Repeater shift	FUN + 2	OFFSET 2.000	Press or to select available values	0.000-99.995MHz		Press twice to exit
	B. Display channel name	FUN + 2	DIS. NM ON	Press or to select available values	ON / OFF		Press twice to exit
24)	Channel name editing	FUN + 2	CH. NAME	Press or to select available values	Input channel name		Press twice to exit
25)	TX/RX tone coder	FUN + 2	C-CDC 254.1	Press or to select available values	OFF / QT / DCS		Press twice to exit

Item No.	Item Name	Enter item	Screen Display	Select parameter	Parameter Explanation	Confirm	Return Standby
26)	RX tone coder	FUN + 2	R-CDC 254.1	Press or to select available values	OFF / QT / DCS		Press twice to exit
27)	TX tone coder	FUN + 2	T-CDC 254.1	Press or to select available values	OFF / QT / DCS		Press twice to exit
28)	Shift direction	FUN + 2	S-D OFF	Press or to select available values	+ / -		Press twice to exit
29)	VFO step	FUN + 2	STEP 25K	Press or to select available values	5K / 6.25K / 10K...100K		Press twice to exit
30)	Wide/Narrow band	FUN + 3	N-W WIDE	Press or to select available values	Narrow		Press twice to exit
31)	CTCSS scan	FUN + 3	SEBK 67.0	Press or to change scan direction	Press key to start scan		Press twice to exit
32)	DCS scan	FUN + 3	SEBK 0023N	Press or to change scan direction	Press key to start scan		Press twice to exit
33)	DALARM	FUN + 3	DALARM	Press or to select available values	ON/OFF		Press twice to exit
34)	VIBRATE	FUN + 3	VIBRATE	Press or to select available values	ON/OFF		Press twice to exit
35)	SCR.NO	FUN + 3	SCR.NO	Press or to select available values	1-8		Press twice to exit
36)	APRO	FUN + 3	APRO	Press or to select available values	OFF/COMP/SCRA		Press twice to 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-UVF9 allows you to scan the entire current operating band and memory channels.

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

When you have started scanning, press [<] / [>] 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 [FUN] 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-UVF9 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-UVF9 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: 4W

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

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

Functions: TH-UVF9'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-UVF9 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.