NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.   This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING：MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBIITED UNDER FCC RULES AND FEDERRAL LAW.

To customers

Thank you very much for using *TYT* two-way radios.
This product has a newly developed function menu and humanism operation design, making it easy to use.
It will meet your requirement by the compact size and reasonable price.

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

Http://www.tyt888.com

Main Functions:

Dual band ,dual display and dual standby

256 groups of memory channels

Wide/Narrow bandwidth selection (25kHz/12.5 kHz)

Hand free VOX function

Chinese/English voice prompt

CTCSS/DCS encoding and decoding

Non–standard CTCSS/DCS input

Auto scan

ANI function

FM radio receiver and 25 memory radio stations

PC program

1750 Tone

DTMF decoding and encoding

Remote stun、kill and activated

Man down

1.77 inch Color Display

Emergency alarm

http://www.tyt888.com

Cotents

Using tips

Unpacking and checking equipments

http://www.tyt888.com

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 equipments

Carefully unpack the radio. We recommend you check the items listed in the following table before discarding the package. If any item is missing or has been damaged during shipment, please contact us immediately.

Supplied accessories:
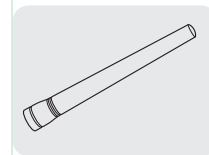
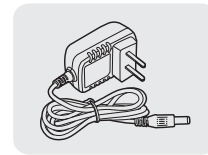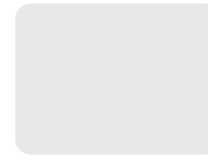| Antenna (1)	Li-ion battery (1)	Belt Clip (1)	Charger (1)

Verification (1)	Charger Adapter (1)	User's Manual (1)

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

Battery

Antenna

Installing and Uninstalling of supplied accessories

http://www.tyt888.com

Battery

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

Notice: 1. Please do not short-circuit the battery terminals or expose of in fire. Do not dissemble the battery by yourself.

2. Charge the battery between temperature 0℃ and 45℃. The battery can not be fully charged beyond this temperature range.

3. Please turn off the power when you charge the radio with battery. Transmit with the radio in charge will affect its correct charge.

4. Do not unplug the power or battery when it is charged.

5. The operating time becomes short even the battery is fully charged, the battery is exhausted, please replace battery.

6. 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 operations:

Charge the battery as follows:

1) Power off;

2) Insert the DC adaptor plug in the DC jack on the back of charger;

3) Insert the AC adaptor plug in the AC power output socket;

4) Insert the battery or radio with battery vertically in a charger, to check whether the battery and charger terminal is in normal contact;

5) Make sure the battery and charger terminal is in good contact, when the charging indicator light turns red, it starts charging.

Note: 1. Before inserting the battery, it is abnormal if the charging indicator blinks.

2. To change the battery for charging, please wait until the indicator is stable.

3. When the battery is well inserted, the indicator turns red and the charging is on the process, if the indicator blinks, then the battery is damaged or the temperature is too high or too low.

Self-testing

When the charger powers up, if the orange indicator lights for one second and then goes out, entering the standby mode, the charger passes the self-testing and can charge the battery. If the orange indicator blinks constantly, the charger fails to pass the self-testing, and can not charge the battery.

Normal charging indicator

When charging the battery, if the indicator light turns red, the battery is on the normal charge; if the red indicator light blinks constantly, the battery capacity is too low, and is on the trickling charge, and after the battery capacity reaches a certain level, it will switch to the normal charge.

Note: Trickling charge does not exceed 30 minutes, if the red indicator light blinks after 30 minutes, it means the charger can not charge battery, please check whether the battery or the charger has been damaged.

Charging precautions:

1) The battery is not fully charged in factory, please charge before using it.

2) 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.

3) The battery lasts shortly even if it is fully charged, the battery is exhausted, please contact your local dealer to buy a new authentic battery.
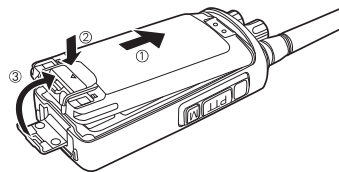
Antenna

◗ The communication range will be shortened in bad weather or among the trees, please prepare in advance to avoid any inconvenience of your communication and security.

Installing and uninstalling of the accessories

Installing/Removing the battery

1) Align the two grooves of battery and the guide rail on the back of aluminum shell, ensuring full contact and in parallel, then push the battery up to the radio base along the rail on the back of aluminum shell, until the battery latch locks up. (picture 1)

2) To remove the battery, please make sure the radio is closed, push the battery latch down, and make sure the radio and battery is on the releasing state, and then push the battery out from the radio. (picture 2)
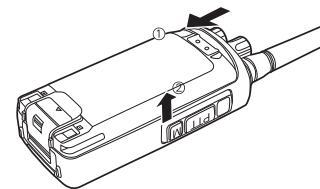
(picture 1)   (picture 2)

Installing and removing the antenna

1) Align the threaded end of antenna and the threaded hole at the top of radio, rotate the antenna clockwise until it is tight. (picture 3)
2) To remove the antenna, rotate it counter-clockwise until the antenna spirals out. (picture 4)
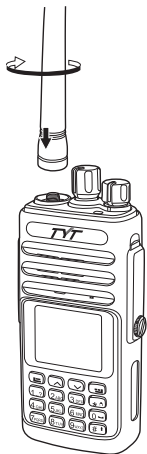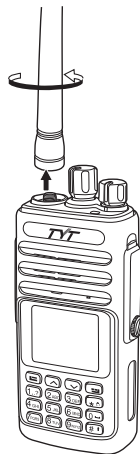
(picture 3)   (picture 4)

Installing/removing the belt clip

1) Align the two holes of belt clip and the two holes of the radio, fix them with the supplied M2.5x5 screw. (picture 5)
2) Loosen the screw set to remove the belt clip. (picture 6)
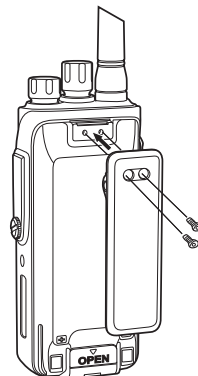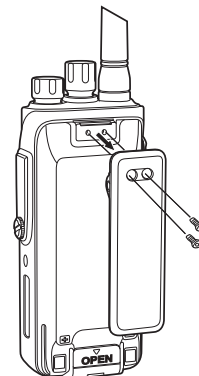
(picture 5)   (picture 6)

Installing external headset

Insert the headset into the mic/speaker jack (picture 8).

Note: Using the external headset will affect the water-tightness performance of radio.
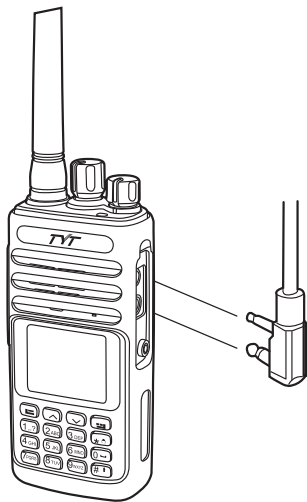
(picture 7)

Getting familiar

http://www.tyt888.com

Getting familiar

Channel Knob
Using to adjusting the channel and frequency

Power/Volume Knob
this control toggle the transceiver's power on/off and adjust the volume level.

Antenna
connect the supplied antenna here.

Speaker
the internal speaker is located here.

Microphone
sound input

Menu
To press it into the menu and the key to confirm

#T-R
Short press this key under standby mode can shift the VFO Mode and MR mode, long press this key can exchange of RX frequency and TX frequency

CALL
Activate T-Call(1750Hz) for repeater access and transmit DTMF signaling.

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

MONI
Press and hold this key disables the noise squelching action ,allowing you to hear very weak signals near the back-ground noise level.
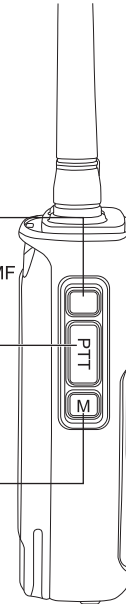
Belt clip
You can clip the radio in the belt and is easy to take.

Mic/speaker jack

Li-ion battery
For charging the radio.

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.

```
400.12500   CH-001
435.12500   CH-001
Menu           A/B
```
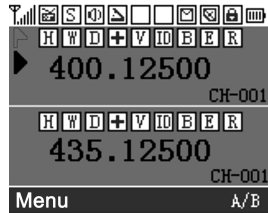
Icons	Description of functions
(signal icon)	Operating band signal & power meter
(FM icon)	FM radio is on
S	Battery Saving function is on
(speaker icon)	Beep and voice prompt is on
(man down icon)	Man down is activate
(envelope icon)	DTMF message receiving
(GPS icon)	GPS is activate
(lock icon)	Key lock is activate
(battery icon)	Battery power capacity

Icons	Description of functions
(band icon)	Currently operating band
SCAN	Scan function is activate
H	TX power is high and when it is low, it will show L
W	Wide band mode activate and if u choose narrow, it will show N
D	DCS activate and if you choose CTCSS, it will show C
+	Offset direction, + is up and * is down
V	VOX function is activate
ID	ID verification is on
B	Busy channel lock function is activate
E	End tone elimination is activate
R	Reverse function is activate

SET MENU MODE
Menu in VFO mode

No.	LCD Display	Available Values	Description of Function
01	Tx priority	Busy/Edit	Priority transmission
02	Vox Level	Level 1-9	VOX level setting
03	TX power	Low/High	Low/High TX power
04	Squelch level	0-9	SQL level settinbg
05	Dual wait	ON/OFF	Dual wait/standby
06	Backlight	ON/5S/10S/15S	Backlight setting
07	Brightness	One/Two/Three/Four/Five/Six	Brightness setting
08	Beep	On/Off	Keypad beep setting
09	Voice	On/Off	Voice prompt setting
10	ID verification	On/Off	ID verification setting
11	PTT ID	Off/BOT/EOT/Both	PTT ID setting
12	TOT	Off/15S/30S/...600S transmitter	Time-out timer
13	Busy lock	On/Off	Busy lock setting
14	Vox function	On/Off	VOX function setting
15	Vox delay	0.5S/1.0S/1.5S/....5.0S	

No.	LCD Display	Available Values	Description of Function
16	Roger	On/Off	Transmitting over beeper setting
17	DW	On/Off	Dual watch/Monitor
18	RX save	On/Off	Receiving saving
19	Scan mode	CO/TO/SE	Scan mode setting
20	Lock mode	Manual/5S/10S/15S auto	Keypad lock
21	Tail	On/Off	End-tone elimination
22	Step	0.5K/2.5K/5.0K/6.25K/10.0K/ 12.5K/25K/37.5K/50K/100K	VFO step
23	S-D	Off/+/-	offset direction
24	Offset	0.000-99.995MHz	Repeater shift (Under VFO mode)
25	QT/DQT	None/67.0/D023N	TX/RX tone coder
26	RX QT/DQT	None/67.0/D023N	RX tone coder
27	TX QT/DQT	None/67.0-D023N	TX tone coder
28	DQT mode	Special/Normal	special DCS setting
29	W/N	Narrow/Wide	Bandwidth select
30	Power-on tone	None/tone/Voice	Power-on tone

No.	LCD Display	Available Values	Description of Function
31	Power-on Display	None/Voltage/Message/Picture	Power-on display
32	Power-on MSG	/	Power-on message editing
33	Voltage	/	Battery power voltage
34	Man down function	On/Off	Man down function setting
35	SEEK QT	/	CTCSS scanning
36	SEEK DQT	/	DCS scanning

Menu in MR and CH mode

No.	LCD Display	Available Values	Description of Function
01	Tx priority	Busy/Edit	Priority transmission
02	Vox Level	Level 1-9	VOX level setting
03	TX power	Low/High	Low/High TX power
04	Squelch level	0-9	SQL level settinbg
05	Dual wait	ON/OFF	Dual wait/standby
06	Backlight	ON/5S/10S/15S	Backlight setting
07	Brightness	One/Two/Three/Four/Five/Six	Brightness setting
08	Beep	On/Off	Keypad beep setting
09	Voice	On/Off	Voice prompt setting
10	ID verification	On/Off	ID verification setting
11	PTT ID	Off/BOT/EOT/Both	PTT ID setting
12	TOT	Off/15S/30S/...600S transmitter	Time-out timer
13	Busy lock	On/Off	Busy lock setting
14	Vox function	On/Off	VOX function setting
15	Vox delay	0.5S/1.0S/1.5S/....5.0S	

SET MENU MODE

No.	LCD Display	Available Values	Description of Function
16	Roger	On/Off	Transmitting over beeper setting
17	DW	On/Off	Dual watch/Monitor
18	RX save	On/Off	Receiving saving
19	Scan mode	CO/TO/SE	Scan mode setting
20	Scan list	/	Scan list editing
21	Scan priority	/	Scan priority list setting
22	Lock mode	Manual/5S/10S/15S auto	Keypad lock
23	Tail	On/Off	End-tone elimination
24	QT/DQT	None/67.0/D023N	TX/RX tone coder
25	RX QT/DQT	None/67.0/D023N	RX tone coder
26	TX QT/DQT	None/67.0-D023N	TX tone coder
27	DQT mode	Special/Normal	special DCS setting
28	W/N	Narrow/Wide	Bandwidth select
29	Power-on tone	None/tone/Voice	Power-on tone
30	Power-on Display	None/Voltage/Message/Picture	Power-on display

No.	LCD Display	Available Values	Description of Function
31	Power-on MSG	/	Power-on message editing
32	CH-Display	Channel NO. /Frequency/Name	Channel display
33	CH-Name	/	Channel name editing
34	Voltage	/	Battery power voltage
35	Man down function	On/Off	Man down function setting
36	SEEK QT	/	CTCSS scanning
37	SEEK DQT	/	DCS scanning

Working mode

Basic operations

Menu functions and operations

http://www.tyt888.com

Working mode

1. Frequency Mode"VFO"

Under this mode, you can use the [⌃ or ⌄] key to change the frequency or input the frequency by keypad directly, press sidekey [M] key to delete the last digit and [MENU] key to confirm.

2. Channel Mode"MR"

When you have stored a memory channel at least and under VFO model, press [BACK] to enter MR model, the frequency will be shown on the display and the channel No., will be shown at the right side.

3. Channel Mode(CH)

When you have stored one channel at least, press [⌄] to power on to enter the CH mode. Channel No., will b e indicated on the display and if the transceiver display name is on, it will show the name of channel. And you also can edit the channel name, please check menu 33 and menu 34.

Reset function

Press [PTT]+[MENU] to power on and you will find four values.

1.Reset

Full: initialize all setting.

VFO: initialize all setting under VFO mode.

CH: initialize all setting under CH mode.

2.Aging

This is only for factory use.

3.Frequency range