

## FCC Caution:

Any 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.

## IMPORTANT NOTE:

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates 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.

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- 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

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.

Note: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Compliance with RF Exposure Standards

TYT's digital mobile radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR §§1.1307, 1.1310 and 2.1093
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition

## IC statement

The device has been tested and compliance with SAR limits, users can obtain Canadian information on RF exposure and compliance

Après examen de ce matériel aux conformités aux limites DAS et/ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquiescer les informations correspondantes

## EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. Please note that the above information is applicable to EU countries only.



# 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](http://www.tyt888.com)

Frequency band:

UHF:400-480MHz

1000 channels

Remote kill/stun/activate

Voice prompt

Power-on protection

Color LCD display

Text messages in digital mode

Encryption function

Built-in CTCSS/DCS

Up to 1000 channels

Priority scan

Complying with digital protocol ETSI TS 102 361-1, -2, -3

Compatible with Mototrbo Tier I & II

DTMF decoding and encoding

Updated software available for new features

Private call, group call, all call in digital mode.

Operate in both Digital & Analogue mode,  
allows easily migrate from analog to digital.

Provide clearer voice communications in  
digital mode, throughout the coverage area.

[Http://www.tyt888.com](http://www.tyt888.com)



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## Using tips

# Unpacking and checking equipments

[Http://www.tyt888.com](http://www.tyt888.com)

## Using tips

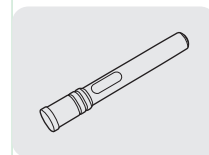
Please read the following brief instructions, non-compliance with these rules may cause danger or violate the law.

- 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.

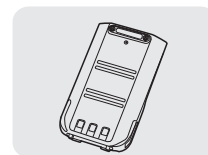
## Unpacking and checking equipments

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.

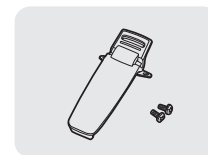
Supplied accessories:



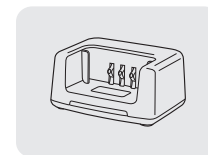
Antenna (1)



Li-ion battery (1)



Belt Clip (1)



Charger (1)



Verification (1)



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

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## Battery

- Notice:**
1. Please do not short-circuit the battery terminals or expose of in fire. Do not disassemble 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 jewelry, 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:** Trickle 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.

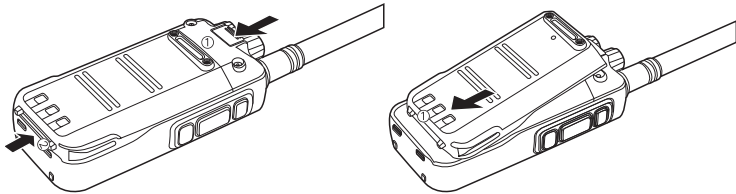
## Antenna

- Short thick antenna is suitable for short-distance communication, while long thin antenna will offer you a better communication effect. Wearing the radio in your waist will not make you feel uncomfortable.
- 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

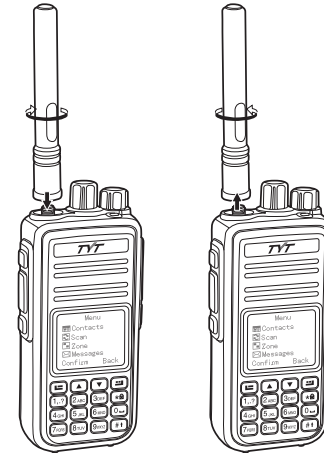
### Installing/Removing the battery

- 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)



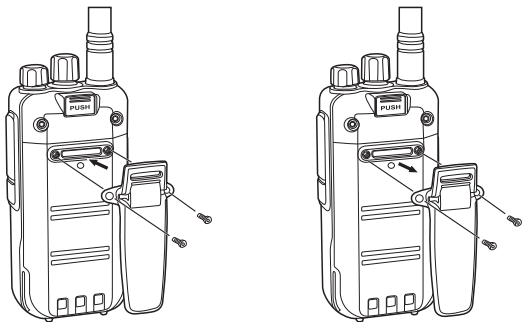
## Installing and removing the antenna

- 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)



## Installing/removing the belt clip

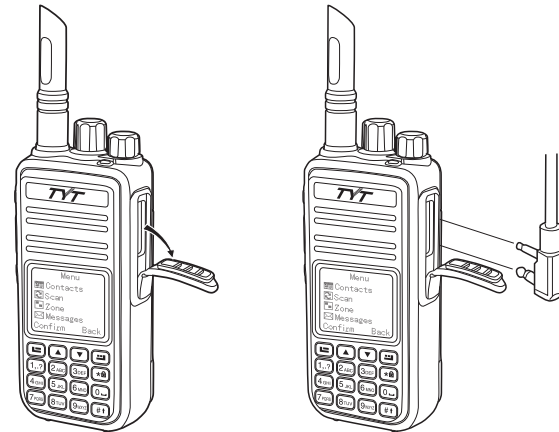
- 1) Align the two holes of belt clip and the two holes of the radio, fix them with the supplied M2.5x5 screw. (picture 5)
- 2) Loosen the screw set to remove the belt clip (picture 6)



## Installing external headset

Reveal (do not remove) the mic/speaker jack cover (picture 7), insert the headset into the mic/speaker jack (picture 8).

**Note:** Using the external headset will affect the water-tightness performance of radio.



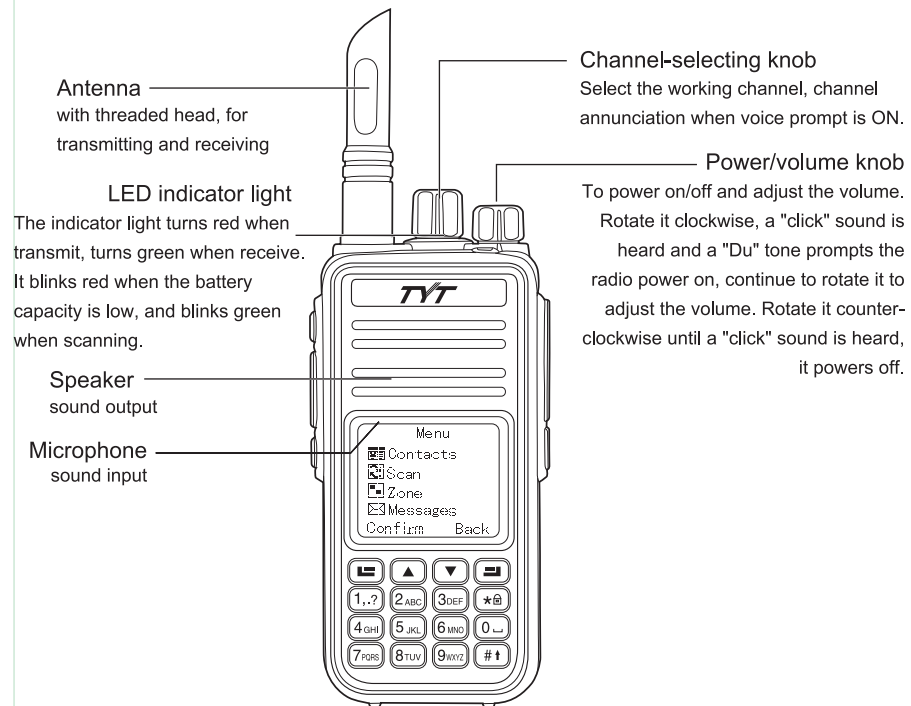
# Getting familiar

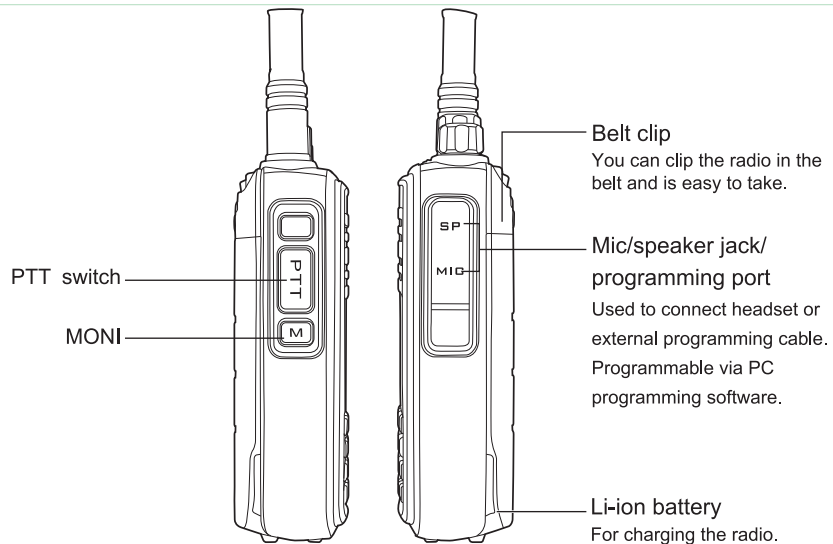
## Safety and Overview

### Overview

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## Getting familiar





Notice: Either Long-press or Short-press of Side-key 1/ Side-key 2/ Side-key 3 can be set by program software for the following functions : 1.None-function 2.All warning tone on/off 3.High/Low power 4.Monitor 5.PTT 1 6. PTT 2 7. PTT 3 8. PTT 4 9. PTT 5 10. PTT 6 11.Repeater/Talkaround 12.Scan on/off 13.Tight/Normal SQL 14.Encryption on/off 15.VOX on/off 16.Zone off 17.Battery indicator 18.Work alone on/off 19.REC switcher(Depends on the hardware) 20.Recode voice review(Depends on the hardware) 21. Delect all recode voice (Depends on the hardware)

## Safety and Overview

Product safety and RF Exposure for handheld two way radio .



Before using this two way radio ,please read the manual which contains important operating instructions for safe usage,RF Energy Awareness, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards Also read the operational instructions for safe use.

## Overview

### Switch On

Clockwise to turn on the radio volume knob, there will be a "KADA" sound , message sound and the screen will show up "Welcome", while the LED indicator lights up and becomes Green color if the battery is full charged.

Notice: if all LED indicators are forbidden, the screen will not light up when switch on the walkie talkie, but with a message sound .

Notice: if the Tones/Alerts is forbidden ,there will not any sound when power on . Here, need to power off the walkie talkie and anticlockwise with the knob until a "KADA" sound .

### Adjust Volume

Clockwise the volume knob to higher the volume or anticlockwise to lower: And there shows a volume line on the screen

# Launch And Receive Calls Emergency Function








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## Launch And Receive Calls

### Zone Selection

Zones is a channel group.Each radio can set 250 zones and each zone with max 16 channels

The menu function:

1. Press [  ] key to enter the menu.
2. Press [  or  ] key to choose,after that with [  ] key to confirm.
3. Screen shows the chosen zone and named by it .
4. Press [  or  ] key to chose,after that press [  ] key to confirm.
5. Screen shows the chosen zone and named by it.

### Selection Of Channels , User ID Or Group ID

Select the needed zone (if there are more than one zone ),using the channel knob to select the channel ,user name or ID,group name or ID.

### Receive And Reply Group Call

The radio must be under a group , then can receive the group call .

When received the group call:

1. LED indicator is green color.
2. On the top of the middle screen will show RSSI mark:First line will show the group name, income call ID will be in the middle ,group call ICON will be the last ( this happens only under Digital mode )

3. Hold the radio and place it between your lip within 2.5~3cm
4. Press[PTT]key to answer the call,LED indicator light change to red color.
5. Release[PTT]key to receive next call
6. If there are not any voice activity, the call end.

Notice: When the radio out of the home page and if there is a group call income , it will be show all the time on the screen before you answer it .

Press [  ] key to receive the call ,and check the income ID before reply.

### Receive And Reply The Single Call

Single call means one on one call. Only with two types: One is testing presence of radio before call, and another one is to call immediately.

When Receive The Single Call:

1. LED indicator is green color.
  2. On the top of the middle screen will show RSSI mark, follows shows single call, user name or ID in the middle,single call mark at the end (Only for analogue mode).
  3. Hold the radio and place it between your lip with 2.5~3cm
- If on the "free channel message sound" function,let go [PTT] key, you can hear a message sound,means this channel is free for you to answer .
4. Press[PTT]key to answer the call,LED indicator light change to red color.
  5. Release [PTT]key to receive .
  6. If there are not any voice activity, the call end.
  - 7.You will hear a message sound and screen shows the call finished .

## Receive all calls

All call means a walkie talkie call up all other users in a channel to public an important information

When receive the all calls:

1. LED indicator becomes green.
2. On the top of the middle screen will show RSSI mark, follows shows all call, User name or ID in the middle, all call mark at the end (Only for analogue mode)
3. End of the all call, radio back to receive all call screen. If under the "free channel message sound" function, when release the PTT key, you will hear a message sound, means this channel is free to use (but cant reply it)

Notice: when receive the all call, if you turn over to another channel, the radio stop to receive all call. During the all call, You can use any re-programmed key until the call finished.

## Launch a radio call

You can choose a channel , user ID or group call with following methods

- Channel Knob
- Pre-programmed key
- Contacts
- Manual dialing (only for single call)

## Using Channel Knob To Make A Call

### Group Call

The radio should be under the group then can have the group call

1. Turn over channel knob , use group name or ID to choose channel
2. Hold the radio and place it between your lip with 2.5~3cm.
3. Press[PTT]key to call, LED indicator changes to red. Screen shows group name or ID with group mark.
4. Let go [PTT] key to receive, when target radio is replying, LED indicator becomes green. Screen shows group mark or name or ID .
5. If on the "free channel message sound" function. let go [PTT] key, you can hear a message sound, means it channel is free for you to answer.

If there are not any transmitter within the time limited , the call failed.

6. when walkie talkie back to home screen ,you can make a group call with contacts.

### Single Call

1. Turn over channel knob , use the name or user ID to choose channel.
2. Hold the radio and place it between your lip with 2.5~3cm.
3. On the top of the middle screen will show RSSI mark, follows shows single call. User name or ID in the middle, single call mark at the end (Only for analogue mode).
4. Let go [PTT] key to receive, when target radio is replying, LED indicator becomes green
5. If on the "free channel message sound" function, let go [PTT] key, you can hear a message sound (means it channel is free for you to answer)



If there are not any transmitter within the time limited , the call failed .

6. you will receive a message sound and screen shows call finished .

You can make a single call with contacts or use keyboard to search the target walkie talkie to make a call.

### All Call

Walkie talkie must be programmed with this function , so that you can send information to every user who are under the channel .

1. Turn over channel knob , use the name or user ID to choose channel.
2. Hold the radio and place it between your lip with 2.5~3cm.
3. Press [PTT] key to release a call , LED indicator becomes to red color .Screen shows Group name or ID with all call mark .

User under the channel can not reply the call .

### Use A Key To Make A Group Call Or Single Call

Single key call function is convenient for you to set a name or ID for group call or single call with long-press or short-press the program key. Set a name or ID for a key there are more than one single call key

1. Press pre-programmed call key.
2. Hold the radio and place it between your lip with 2.5~3cm
3. Press [PTT] key to call , LED indicator becomes to red color .Screen shows name or ID with a mark .

4. Let go[PTT] key to receive, when target walkie talkie is replying ,LED indicator changes to green .

5. If on the "free channel message sound" function , let go [PTT] key,you can hear a message sound, means it channel is free for you to answer .

If there are not any voice activity, the call end.

6. Walkie talkie back to before call screen.