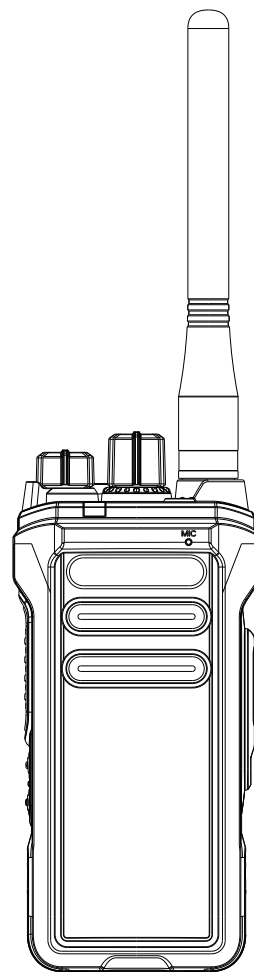


RECYCLABLE PACKAGING



# **TC 368**

## **USER'S MANUAL**

# User's Manual

## FM Transceiver

**Dear user:**

Welcome to use our handheld transceiver. We believe you will be pleased to use it in our daily life and work.

This transceiver adopts advanced technology, we hope you will be satisfied with its quality and functions . This transceiver will bring you convenient, fast, reliable two-way communication.

**Notice:**

- Please read this manual carefully before using this transceiver.
- Please do not communicate or charge this transceiver in flammable,explosive and area which transceiver communication is

prohibited(such as oil station,gas station, airport etc.)

- Please do not operate this transceiver without licence in government laws banned areas.

- Please make sure this transceiver avoids the sunshine, and avoids to put it near any heating device.

- Please make sure this transceiver avoids any dusty,humid and water splashed place,and also avoids to put it on unstable surface.

- If transceiver smells or smokes, please remove the battery pack from transceiver at once, and then contact our company or local dealer.

- The repair job of this transceiver is in the charge of professionals & technicals, self-disassembly is prohibited

## Birectory

Unpacking Inspection .....	1
Supplied Accessories .....	1
Preparation .....	2
Get Familiar With Radio .....	3
Charging Instructions .....	4
Basic Operation and Function Description .....	4
CTCSS (50 in total) .....	7
DCS (116*2 in total) .....	8
Technical Specifications .....	9

## Unpacking Inspection

Before use, please open the carton and check the main unit and the accessories listed in the following table in detail inside the carton, if any items are lost or damaged during handling, please contact the shipper or distributor immediately.

## Supplied Accessories

Item	Quantity
Radio	1
Antenna	1
Li-ion Battery Pack 7.4V	1
Charger	1
Charging Cable	1
Belt Clip	1
User Manual	1
Lanyard	1

## Preparation

### Caution:

- **Do not charge the battery pack for too long!**

If charging of the battery pack is not completed within the specified time, stop charging. The battery pack may overheat and burst with smoke or suddenly catch fire.

- **Do not put the battery pack into microwave ovens and high pressure containers!**

The battery pack may overheat and smoke and burst or suddenly catch fire.

- **Keep ruptured and leaking batteries away from fire!**

If a battery pack leaks (or emits a pungent odor), keep it away from flammable areas immediately. Leaking electrolyte from a battery pack can easily catch fire and may cause the battery pack to smoke or suddenly catch fire.

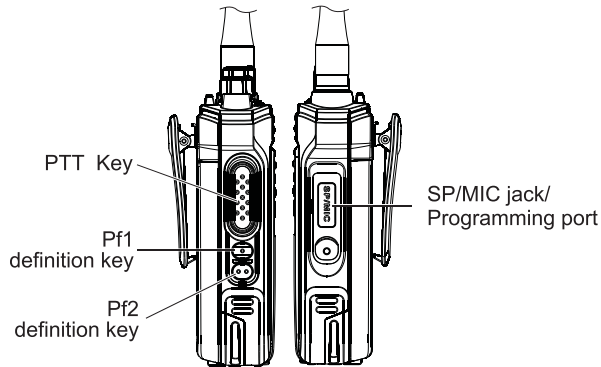
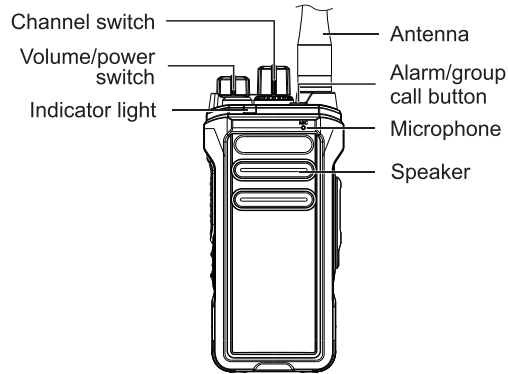
- **Do not use abnormal battery packs!**

If the battery pack emits a pungent odor, looks different in color, is distorted, or behaves abnormally for any reason, remove the battery pack from the charger or operating unit and do not use it.

- **Please use special charger**

The charger is specially designed for this model of radio, which is more scientific and reasonable, safe and reliable for charging the battery of this model of radio.

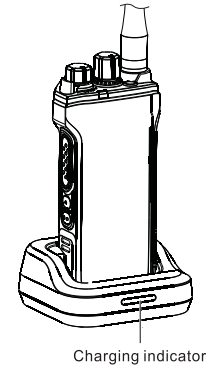
## Get Familiar With Radio



## Charging Instructions

Charging mode:

The radio is inserted into the charger charging slot, at this time the charger lights up red to indicate the start of charging, the green light is on to indicate that the battery charge has been saturated. (As shown in the figure)



## Basic Operation and Function Description

### Power On/Off

Turn the volume switch potentiometer clockwise to hear a "click" to turn the power on, and counterclockwise to hear a "click" to turn the power off.

### Talk

Press and hold the PTT key to transmit, the indicator light will be red, then aim the microphone hole to speak, the other party will hear their own speech message. Release the PTT key after speaking to receive the other party's message, and the green light will turn on at the same time when the other party's message is received.

### Volume Up/Down

Turn the volume switch potentiometer clockwise to increase the volume, and counterclockwise to decrease the volume.

### **Channel Adjustment**

Rotate the channel knob clockwise for channel “ + ”, and counterclockwise for channel “ - ”.

### **Low Battery Voltage Reminder**

When the radio gives a voice prompt "low battery" and the indicator flashes red, it means the battery voltage is lower than the working voltage, please charge the radio battery.

### **Monitor On/Off**

Short press or long press the PF1/PF2 key set with monitor function to turn on the monitor function, monitor whether someone is talking on the channel you choose, if there is no signal, then the "rustle rustle" sound; release the key to turn off the monitor function.

### **VOX On/Off**

Short press or long press the PF1/PF2 key set with VOX to hear a "beep" to turn on the VOX function, repeat the operation to adjust the level of VOX, the higher the level means that the voice of speech to turn on VOX is smaller, hear "beep" two sounds to close the VOX.

### **Channel lock On/Off**

Short press or long press the PF1/PF2 key set with channel lock to hear "beep" to open the lock function to lock the channel, and then short press or long press the PF1/PF2 key to hear "beep" twice to close the channel lock function.

### **Scan On/Off**

Short press or long press the PF1/PF2 key set to scan to hear a "beep" to open the scanning function, the green light flashes to start scanning, when the signal received the machine out of the scan

sound, after receiving the signal machine then automatically enter the scan; then short press or long press the PF1/PF2 key to hear a "beep" two sounds to close the scanning function.

### **Alarm Function On/Off**

Short press TOP key to open the alarm function, the alarm is divided into local alarm (only local alarm) and remote alarm (both transmitter and receiver will be alarmed), you can select the alarm mode by writing frequency software; press PTT key to cancel the alarm.

### **Power Switch On**

Short press or long press the PF1/PF2 key set with power switching to open the power switching function, hear "beep" one time to switch to low power, hear "beep" two times to switch to medium power, hear "beep beep beep" three times to switch to high power.

Noise Reduction On/Off (Receive and Transmit Two-way Noise Reduction)

Short press or long press the PF1/PF2 key set with noise cancellation to turn on the noise cancellation function, and hear a "beep" to indicate that the noise cancellation function is turned on (with two-way noise cancellation for receiving and transmitting), the background sound of the surrounding environment will be eliminated when the transmitter turns on noise cancellation shouting, only the human voice will be retained and the audio will be transmitted to the receiver; when the receiver turns on noise cancellation, the background sound of the transmitter transmitting When the receiver turns on noise reduction, the ambient background sound from the transmitter will also be eliminated. Repeatedly operate the button to hear "beep" twice to turn off the noise reduction.

**One-touch Group Call On/Off**

Press and hold the TOP key to turn on one-touch group calling. After turning on group calling, each machine will be transferred to the group calling channel for transmitting and receiving regardless of the different channels it is on; the group calling channel can be selected by editing the program - optional functions - and the recovery time and PTT reply can also be set by the frequency writing software (after selecting the PTT reply and holding down the key to turn on group calling, the transmitter and receiver can still talk to each other by pressing the PTT key after releasing the key and waiting for the recovery time before exiting the group calling); release the TOP key to exit one-touch group calling. The transmitter and receiver can also talk to each other by pressing the PTT key and wait for the recovery time to arrive before exiting the group call); release the TOP key to exit the one-key group call.

**CTCSS (50 in total)**

67.0	69.3	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5
94.8	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3
131.8	136.5	141.3	146.2	151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2	189.9	192.8	196.6	199.5
203.5	206.5	210.7	218.1	225.7	229.1	233.6	241.8	250.3	254.1

**DCS (116\*2 in total)**

D017N	D023N	D025N	D026N	D031N	D032N	D036N	D043N	D047N	D050N
D051N	D053N	D054N	D055N	D065N	D071N	D072N	D073N	D074N	D114N
D115N	D116N	D122N	D125N	D131N	D132N	D134N	D135N	D143N	D145N
D152N	D155N	D156N	D162N	D165N	D172N	D174N	D205N	D212N	D217N
D223N	D225N	D226N	D243N	D244N	D245N	D246N	D251N	D252N	D254N
D255N	D261N	D263N	D265N	D266N	D271N	D274N	D305N	D306N	D311N
D315N	D325N	D331N	D332N	D343N	D345N	D346N	D351N	D356N	D364N
D365N	D371N	D411N	D412N	D413N	D423N	D425N	D431N	D432N	D445N
D446N	D452N	D454N	D455N	D462N	D464N	D465N	D466N	D503N	D506N
D516N	D523N	D526N	D532N	D534N	D546N	D565N	D606N	D612N	D624N
D627N	D631N	D632N	D645N	D654N	D662N	D664N	D703N	D712N	D723N
D731N	D732N	D734N	D743N	D754N	D765N				

D017I	D023I	D025I	D026I	D031I	D032I	D036I	D043I	D047I	D050I
D051I	D053I	D054I	D055I	D065I	D071I	D072I	D073I	D074I	D114I
D115I	D116I	D122I	D125I	D131I	D132I	D134I	D135I	D143I	D145I
D152I	D155I	D156I	D162I	D165I	D172I	D174I	D205I	D212I	D217I
D223I	D225I	D226I	D243I	D244I	D245I	D246I	D251I	D252I	D254I
D255I	D261I	D263I	D265I	D266I	D271I	D274I	D305I	D306I	D311I
D315I	D325I	D331I	D332I	D343I	D345I	D346I	D351I	D356I	D364I
D365I	D371I	D411I	D412I	D413I	D423I	D425I	D431I	D432I	D445I
D446I	D452I	D454I	D455I	D462I	D464I	D465I	D466I	D503I	D506I
D516I	D523I	D526I	D532I	D534I	D546I	D565I	D606I	D612I	D624I
D627I	D631I	D632I	D645I	D654I	D662I	D664I	D703I	D712I	D723I
D731I	D732I	D734I	D743I	D754I	D765I				

## Technical Specifications

Frequency Range	GMRS
High Power	1.8W
Low Power	0.5W
Number of Channels	30
Audio Distortion	<5%
Frequency Stability	$\pm 2.5$ ppm
Maximum Frequency Skew	$\leq 5$ KHz/ $\leq 2.5$ KHz
Spurious Radiation	$\leq 7$ uW
Modulation Method	14K $\phi$ F3E/ 11K $\phi$ F3E
Reference Sensitivity	$\leq 0.25$ uV/ $\leq 0.3$ uV
Squelch On Sensitivity	$\leq 0.2$ uV/ $\leq 0.25$ uV
Adjacent Channel Selectivity	$\geq 65$ dB
Spurious Response Suppression	$\geq 55$ dB
Intermodulation	$\geq 60$ dB
Current	$\leq 2.5$ A
Operating Voltage	7.4V DC

### 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.

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.



This radio is designed for and classified as "General population/uncontrolled Use"

DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.

DO NOT transmit for more than 75% of total radio use time, more than 75% of the time can cause RF exposure compliance requirements to be exceeded.

This transmitter may operate with the antenna(s) documented in this filing in Push-to-Talk and body-worn configurations. RF exposure compliance is limited to the specific belt-clip and accessory configurations as documented in this filing and the separation distance between user and the device or its antenna shall be at least 2.5 cm.

Please cut along with this line

## GUARANTEE CARD

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 repl-enishment 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,earphone,antenna and can cable are not under guarantee.
- 5.The user can get repairing service from the following ways:
  - a.Go to the shop where you buy the machine
  - b.Our local repairing agent