



RECYCLED PACKAGING

NETWORK & ANALOG

dual mode combined

Dual Ptt Design For Network And Analog

- 4 working mode optional
- Unlimited distance communicate
- Cross mode repeater from network to analog
- On-the-air programming and firmware updating
- GPS & track replay
- 1-32g recording storage & replay
- 10 quick call keys
- Private call/group call/Member list call/Parent group call
- Low battery alert

USER'S MANUAL

CE Warnin s and Statements

Use the POC Radio in the environment with the temperature between-10°C and 40°C , otherwise, it may damage your POC Radio. It can be operating under 2000m.

Hereby, TYT Electronics Co., Ltd. declare that the radio equipment type POC Radio is compliance with Directive 2014/53/EU.



The product shall only be connected to a USB interface of version USB2.0 or higher and that the connection to a power USB is prohibited.

For this device, Head SAR and Body SAR was performed with the device configured in the positions according to EN62209-1:2016 & EN62209-2:2010, and Body SAR was performed with the device 5 mm from the phantom.

Body SAR was also performed with the headset attached and without.

Caution:

For Adapter: Shall be installed near the equipment and shall be easily accessible.

For Battery: Risk of explosion battery is replaced by an incorrect type, dispose of used batteries according to the instructions.

Only can use the adapter as below:

Manufacturer: TYT Electronics Co.,Ltd.

Model Name: C501

Rated Input & Output: AC100V-240V, 50/60Hz, 0.5A, DC5.0V, 1500mA

The plug could be disconnected from adapter.

Operating Frequency Range	The maximum RF Output Power
GSM 900 / 1800	Max. 2W / Max.1W
UTRA FDD Band I / VIII	0.25W
E-UTRA FDD Band 1 / 3 / 7 / 8 / 20/28/38/40/41	0.2 W
GPS 1575.42 MHz (Only receive)	/
Tx/Rx:400-470MHz (F3E)	5/1W

To customers

Thank you very much for using our 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 our two-way radio

Main function:

- ◆ Dual PTT design for network and analog
- ◆ 4 working mode optional
- ◆ Unlimited distance communicate
- ◆ Cross mode repeater from network to analog
- ◆ On-the-air programming and firmware updating
- ◆ GPS & track replay
- ◆ 1-32g recording storage & replay
- ◆ 10 quick call keys
- ◆ Private call/group call/Member list call/Patent group call
- ◆ Low battery alert



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Using tips
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Using tips

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

- Turn off the radio before entering flammable or explosive areas.
- Do not charger 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” .
- 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

Open the box and check the device

Please remove the radio carefully from the box. We suggest you check the accessories thoroughly according to our list before discarding the packaging.

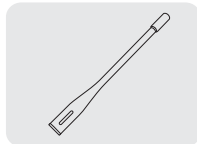
Supplied accessories



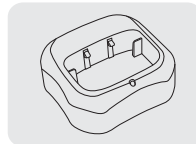
Radio



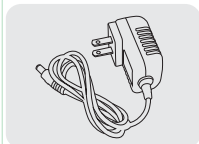
Battery



Antenna



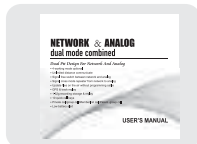
Desk charger



Ac adapter



Belt clip



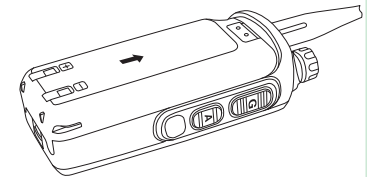
User's manual

Notice: The antenna frequency please refers to the label at the bottom of antenna.

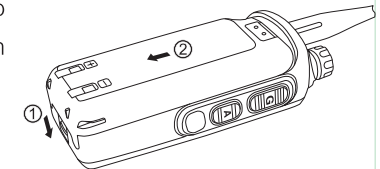
Installing and uninstalling of supplied accessories

Installing/removing the battery

1. Align the top of battery with the corresponding groove on the back of radio, then push the battery up to the radio base along the rail on the back of aluminum shell, until the battery latch locks up.

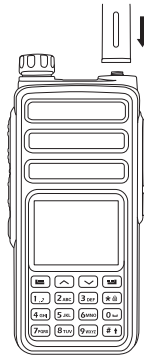


2. To move the battery, please make sure the radio is closed, push the battery latch up, and then push the battery out from the radio.



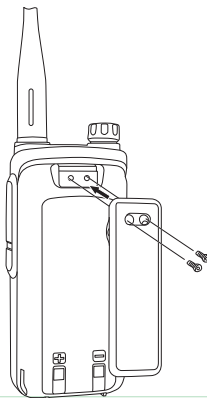
Installing the antenna

Hold the radio and antenna, turn the antenna clockwise until it is tightened.



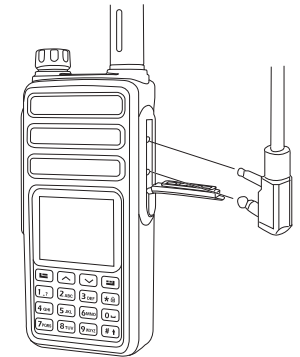
Installing belt clip

If required, screw the belt clip onto the back of the radios using the two screw holes shown on the image below.



Install the earpiece/microphone

Reveal (do not remove) the mic jack cover, insert the headset into the mic jack.

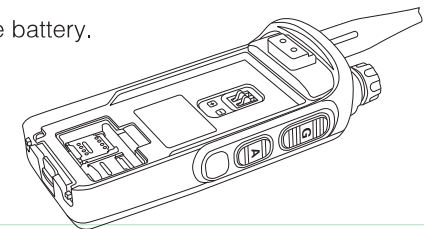


Installing SIM card

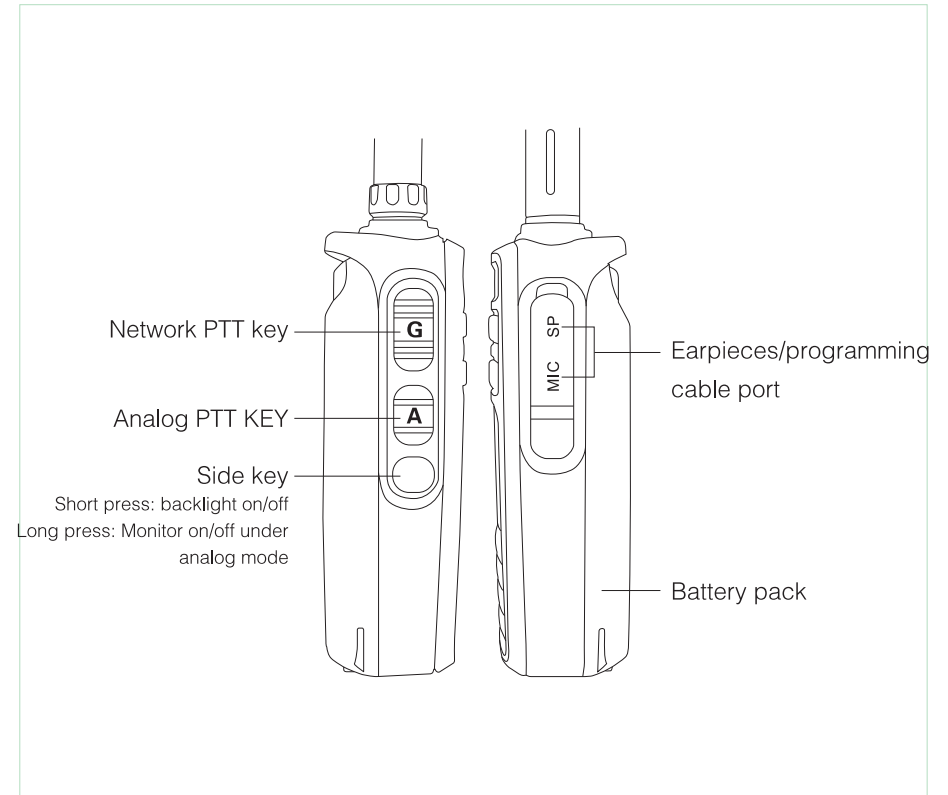
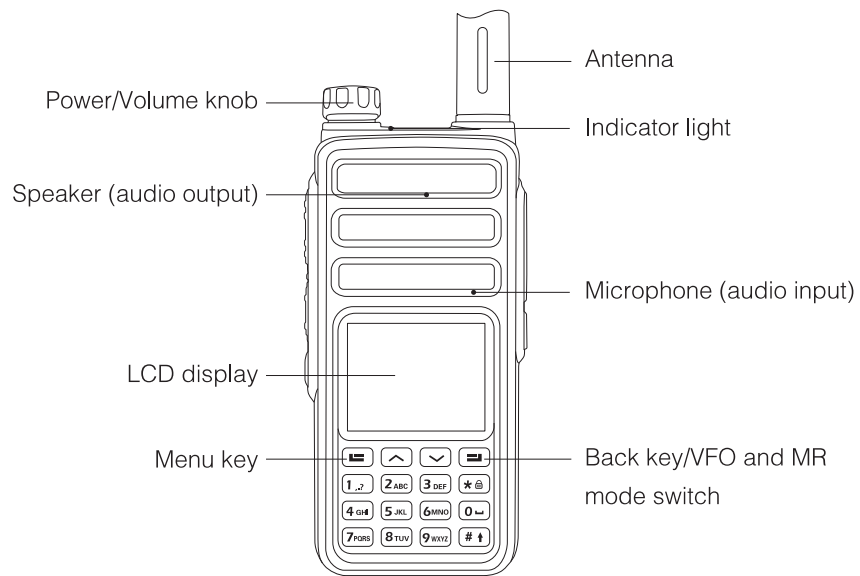
Please insert effective SIM card before use, make sure the SIM card can be effective in 4G/3G radio.

Remove the battery, lift SIM socket cover, place SIM card in the socket in the correct position.

After place the SIM card, replace the battery.



Getting Familiar



• MENU FUNCTION

• Menu under the analog mode

Press [] when the arrow is in the Analog mode, you can check the following menu function.



1. Channel

Check the channel information, there are total 200 channels you can storage

2. CTS/DCS

You can set the CTCSS/DCS

3. Power

User can choose the power (High/Middle/Low) in here

4. Tx/Rx Fre

This function only work in VFO mode.

Positive(+)/Negative(-)

Difference Value: press [] [] to add or subtract the value

For example: When you choose Pos(+), and difference value is 1.0MHz, if the frequency is 446.025MHz, the TX frequency is 447.025MHz, and the RX frequency is 446.025MHz

5. Squelch

Squelch level: 1-9

6. Other

• Work mode:

Public network



The radio work in the public mode, and you only can transmit and receive in public mode, and whatever you press which PTT key, it will transmit in Public mode.

 : GPS mark, when the radio get the GPS information, the mark will turn to white.

• **Analog network**



The radio work in the analog mode, and you only can transmit and receive in the analog mode, and whatever you press which PTT key, it will transmit in the analog mode.

P LOW/ **P** HIGH/ **P** MIDDLE Power: HIGH/MID/LOW

▲F+00.00000 Frequency offset value

MR/VFO Press [] key to change MR mode or VFO mode

VFO-MODE MR-MODE CHOO1 The radio is VFO mode or MR mode

W/N Wide band or Narrow band

CTC/DCS CTCSS/DCS

SQ4 Squelch level

• **Work mode:**

The radio is work in public and analog mode, when you can transmit and receive in these modes, when you press “G” PTT key, it will transmit in public network mode; when you press “A” PTT key, it will transmit in the analog mode



• **Repeater mode**

The radio has cross mode repeater mode. The radio choose the repeater mode, this radio would be as a repeater, and other radios will be choose mixed mode, or one radio in analog mode, one radio in Public network mode. The TX mode and RX mode of repeater would be opposite of other radios, and the group of repeater would be same as other radios.



For example:

- **Transmit radio**

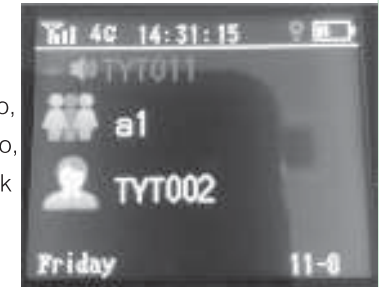


- **Repeater radio**



- **Receive radio**

The transmit radio send the signal by analog radio, and the repeater receive the signal in analog radio, and transmit the received signal by public network mode, and the receive radio receive the signal from repeater in Public network.



Wide/Narrow: Wide band: 25KHz Narrow: 12.5KHz

Step frequency:

2.5KHz/5.0KHz/6.25KHz/7.5KHz/8.33KHz/10.0KHz/12.5KHz/15.0KHz/20.0KHz/25.0KHz/30.0KHz/50.0KHz

Tail Sound: Freq 55.0Hz Freq 259.3Hz Freq 45.5Hz

Only in the same frequency, the sound will be disappear

Max TX time: No limit 50 seconds 100 seconds 180 seconds

Save power mode: 1:1 1:2 1:4 1:8


VOX: Close/Level 1-9

Backlight: 10 seconds 20 seconds 30 seconds Always open

About me: software version

CH-FRE show mode: Show CH-Freq Hide CH-Freq

Menu under the analog mode

Press [] when the arrow is in the 4G mode, you can check the following menu function



1. Group: select the group you have set.

2. Member:

Select online member which in the group you have chosen, and you can achieve the private call with the member

3. Friend:

Select the online friend and achieve the private call.

Note: you can add the friend in the platform:



After you add the friend, you can check in the radio



4. GPS/BD: check your GPS information

5. Hot key: check the hot key information, there can add 10 hot keys
Enter the “member”, and choose one member you want to add to hot key, and long press a number key, such as “0”, and you can hear is set successfully
After you set the successfully, you can long press the hot key (such as “0”) to achieve private call, press PTT to transmit and release PTT to receive



The transmit radio



The receive radio



6. Set:

Work mode: same as analog menu function

Public network



The radio work in the public mode, and you only can transmit and receive in public mode, and whatever you press which PTT key, it will transmit in Public mode

Analog network



Mixed mode



Repeater mode



Tone select: Open the PTT sound Close the PTT sound

Network select:

Auto select Only 4G mode Only WCDMA Only HDR Only GSM Only CDMA

Backlight: 10 seconds 20 seconds 30 seconds Always open

Initialize

Module upgrade

MCU upgrade

Radio information

4G LTE smart PTT management platform

•4G LTE smart PTT management platform

Click: http://www.tytsmartpoc.com/tyt_en/tyt

Using the account and password to enter in, you will find the interface as below:

For second level admin



Add admin

Click the "Add admin"



Then you will find the following interface:

After filled the admin name/ password and Max terminal No, then click "Save", then you will find this admin information in the "Admin list"

Admin ID	Admin Name	Admin Level	Admin Password	Creation	Max terminal No.	Enabled Terminal No.	Status	Operations
14	Admin	1	123456	2014-07-26	5	5	Y	Modify Admin Profile, the account may just be recycled

Modify: you can change the name and password

Delete: you can delete this admin, but if this admin has devices or account, you can't delete it.

Assign-the account: you can assign more terminal account to this admin

Recycle the account: if the admin has accounts not be used, you can recycle these accounts

Users assignment details

You can check the details about the third lever administrator.

ID	Name	Level	Approved	Unresisted account	Resisted No	Details of use
14	Admin	3	Approved	0	0	Resisted No: 0 Unresisted No: 0 Unresisted No: 0

Authorized No: it means the max terminal quantity which you have assigned

Resisted No: it means the used terminal quantity

Unresisted No: it means the unused terminal quantity

Order management

Order list: all the order lists will be shown in this interface.

Admin approved: it means this order has been approved, and it has been complied

Waiting Admin approval/Waiting allocation admin to approve: it means this order hasn't been complied

Order No	Order type	Previous status	Current status	Order status	Create time	Operator
12	Repair the surplus account	Approved	Approved	Admin approved	2016-07-18	Admin
11	Add account	Approved	Approved	Admin approved	2016-07-18	Admin
10	Repair the surplus account	Approved	Approved	Waiting admin approval	2016-07-18	Admin
9	Add account	Approved	Approved	Waiting allocation admin to approve	2016-07-18	Admin
8	Repair the surplus account	Approved	Approved	Admin approved	2016-07-18	Admin
7	Add account	Approved	Approved	Admin approved	2016-07-18	Admin
6	Add account	Approved	Approved	Admin approved	2016-07-18	Admin

Add order

1. When the account number is not enough:

If the account quantity not enough support your radios quantity. You can add order then ask your upper level administrator to assign the account.

Click "Order management", then click "Add order"



2. Return the surplus account

When the quantity for account has exceed the radios, you can return the accounts to the upper level administrator



3. Renew the account

When your account want to expand the valid time, you need renew the validity period by this order.



After that, click "Save", and you will find this order in the "Order list"

When the order type is "Return the surplus account, the previous administrator will approve this order automatic, so that the "order states" will shows "Admin approved", this order is deal with.

When the order type is "Add account or renew the account", you need wait the previous administrator to approve your order.

• File data

You can change the password in this interface

Notice: when you want to delete the device in the device list, you need, you need to ask the first-level administrator to delete.



For third level admin

ID	Account	Account Number	Account Type	Account Status	Account Validity	Account Validity	Account Validity	Account Validity	Account Validity	Account Validity	Account Validity
11	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
12	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
13	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
14	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
15	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
16	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
17	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
18	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
19	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111
20	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111	11111

Group management

Add the group first

as below



Main group and Sub- group



Nested groups definitions

Every group can be merged into a new group; it can also be merged into a new group separately; or be combined with other subgroups. However, new groups that are combined by sub-groups cannot be merged.

The new group that merged by subgroups has all members of the subgroup.

Device management

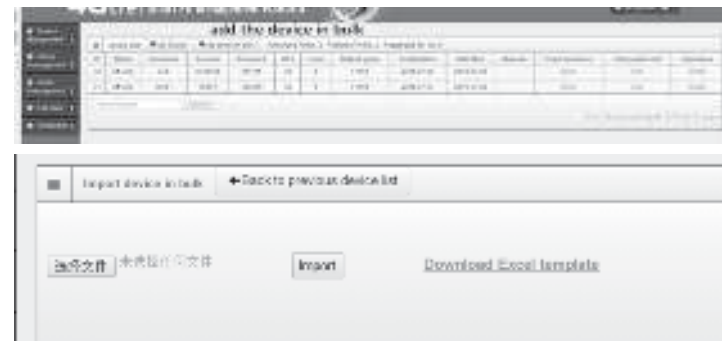
Add the device

Note: Only third level admin can add the device, please kindly contact your upper admin for the Account. There are two method to add the device: add one by one and add in bulk.

Add the device one by one:



Add the device in bulk



Account	Account	Account	Account
Account	Account	Account	Account
Account	Account	Account	Account
Account	Account	Account	Account
Account	Account	Account	Account

Order management

Add the order

1. When the account number is not enough

If the account quantity not enough support your radios quantity, You can add order then ask your upper level administrator to assign the account.

Click "Order management", then click "Add order"



2. Return the surplus account

When the quantity for account has exceed the radios, you can return the accounts to the upper level administrator



3. Renew the account

When your account want to expand the valid time, you need renew the validity period by this order.



After that, click "Save", and you will find this order in the "Order list"

When the order type is "Return the surplus account, the previous administrator will approve this order automatic, so that the "order states" will shows "Admin approved" , this order is deal with.

When the order type is " Add account or renew the account" , you need wait the previous administrator to approve your order.

Order No.	Order type	Previous status	Operation type	Order status	Create time	Operation
3	Add account	Done	Transfer	Waiting allocation admin to approve	2013-07-11	Order cancel
4	Renew (Renew/transfer)	None	Renew	Admin approval	2013-07-19	Order cancel

File data

You can change the password in this interface

Form titled "Edit Password" with the following fields and buttons:

- Old Password: [password field]
- New Password: [password field]
- Confirm New Password: [password field]
- Buttons: Save, Back to list

Notice: when you want to delete the device in the device list, you need, you need to ask the first-level administrator to delete.

Smart PTT dispatch Management Platform

Smart PTT dispatch Management Platform

Note: If the Dispatch management platform has registered, The radio will off- line, The same to the radio on and dispatch management off. we suggested that the Dispatch management account is different with PTT platform.

Note before login in dispatch management platform

1. In the software, turn on the GPS function



2. The dispatcher should select the function for “ Check Location” in the platform, so that the dispatcher can get the other radios GPS information.



3. The radio should select the function for “ Location” in the platform, and the radio should be outdoors to get the location. Also the programming software should be open the GPS



Set the IP address and GOOGLE/Baidu Map , and login in.



4. After finished Set up, click the login to enter the dispatcher platform. The “ P” means that the radio is in this group. When the radio is in the group same as dispatcher, it can receive a group call from dispatcher and transmit a group call to dispatcher.

Notice: the dispatcher will login the default group, if you want to login other group, you need modify the default group.

ID	Name	Device	Status	Group	Power	Signal	IP	Location	Track	Call	Call	Call	Call	Call	Call	Call	Call	Call	Call	Call	
1	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345	12345



Private call

1. Private call, when the dispatcher choose this function, it can transmit anyone in private call.

Operation:
click one radio you want to speak to, then right click, you can find three options:
Private call/Get location/Get track



After you choose the private call, Press “ PttDown” and you can transmit the radio, and release the “PttDown” to wait for replying. The radio can press “PTT” to reply. Notice: the continuous transmission maximum time is 50S, when you over 50S, it will exits transmit automatic.



Location in the MAP

Function	Instruction
	Terminal Box selected, use the Rectangular Box or round box to choose the desired area
	Track replay
	Terminal Location
	Map Zoom-in
	Map Zoom-out

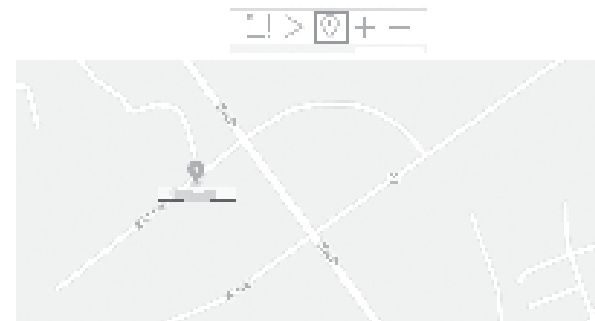
Note: The GPS function only work outside, in the common case, it will open within 1 minutes, the weather will affected.

Get location

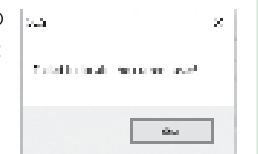
Get location, you can know the radio' s place.

Operation:

- 1.click one radio you want to speak to, then right click, you can find three options: Private call/Get location/Get track
 - 2.After you choose the get location, you can see the radio' s location, and it will show the radio' s name on the map, when the mouse move to the radio on the map, you can see more details about this radio.
- You can also click the to get location




And if the radio doesn' t open the GPS function or the radio doesn' t get the location, you will see the following interface:

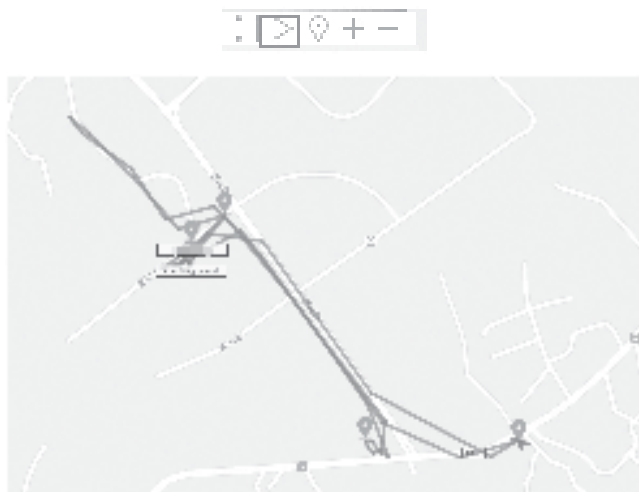


Get track:

you can check the radio's activity trajectory within a period of time.

Operation:

1. click one radio you want to speak to, then right click, you can find three options: Private call/Get location/Get track
2. After you choose the get location, you can see the radio's trajectory on the map. You can also click the  to get track



3. Interval: 5/10/20/50S,

It means the radio will uploads the GPS information in the chosen time.

4. The activity trajectory records will be saved one month, and every time you can track the activity trajectory within 24 hours, for example, when the start time is 2018-7-18 14:56:45, the end time should be within 2018-07-18 14:56:46 to 2018-07-19 14:56:44



Group actual location:

You can check all members' location in the group which the dispatcher is located.



Click “Cancel actual location” to exit the group actual location function



Set speaker in the map center:

When one radio is speaking, this radio's location will show in the center of map.

1. Click the “set speaker in the map center” if one radio is speaking, you can see this radio's location in the center of map, and this radio's mark (📍) will rock.



2. Click the “Cancel the setting speaker in the map center” to exit.



Create a temporary group:

You can create a temporary group in the dispatch platform, and when you exit the dispatch platform, the group will remove.

Operation:

1. You can set choose which members you want to add in the group list, and then you can check the temporary group in the right side. Click the “Temporary group call” , then dispatcher presses the PttUp, or other radio press PTT key , only the selected radios can achieve temporary group call.



Notice: if all members in one group need added to the temporary group, you can choose the Group name, just like Group 2.

If all members in this dispatcher need added to temporary group, you can choose the "Select all"



2. You also can use another mention to add a temporary group, click the following the frame





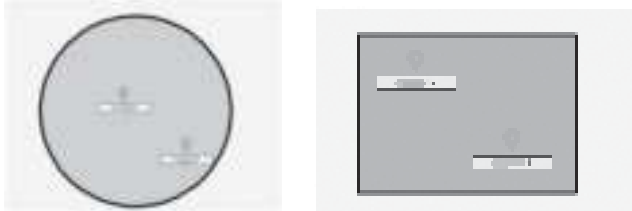
And you will find the following three keys:



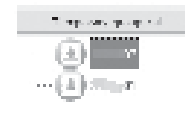
Click  key can move the map;

Click  or  can add the member to temporary:

Operations: click  or , then left click the mouse, and circle a range, the radios in this range will add to the temporary group automatically



3. Then you will find the radios in these range will add to temporary group



After finished to finished circle the range, please click  key to exit.

4. If you want to exit the temporary group, click "Cancel temporary group call"



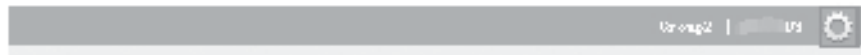
If you want to remove one of members in the temporary group, please click the member name, the member name would become blue, then click "remove"



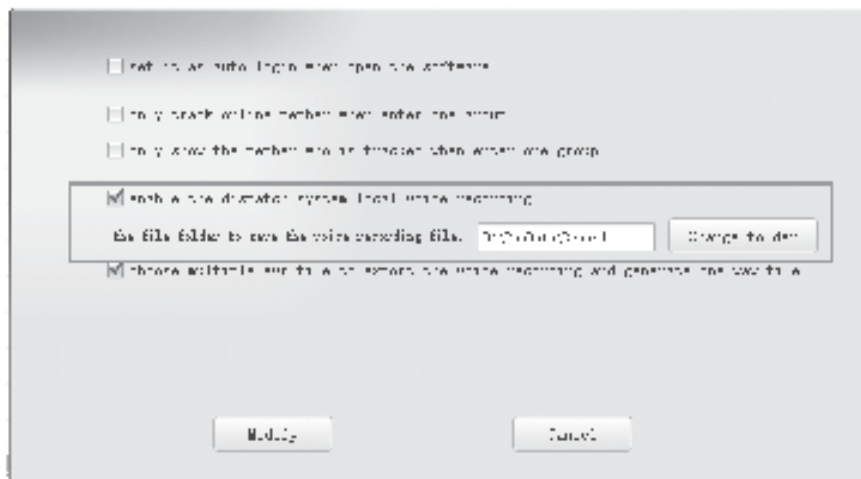
If you want to disband this temporary group, please click "remove all"

Local Recording:

1. Click  key



Then you will find the following interface:



Ensure the function has marked is chosen

2. Click the “Local recording”



3. If you have communication records, you will find these call list:



Name	Call type	Call time	Call duration	Call status	Recording file
11	Search	Search	Search	Search	Search
12	Search	Search	Search	Search	Search
13	Search	Search	Search	Search	Search
14	Search	Search	Search	Search	Search
15	Search	Search	Search	Search	Search
16	Search	Search	Search	Search	Search
17	Search	Search	Search	Search	Search
18	Search	Search	Search	Search	Search
19	Search	Search	Search	Search	Search
20	Search	Search	Search	Search	Search

4. Select the Call type/Caller/Call time, then click “Search” , then you will find the records.

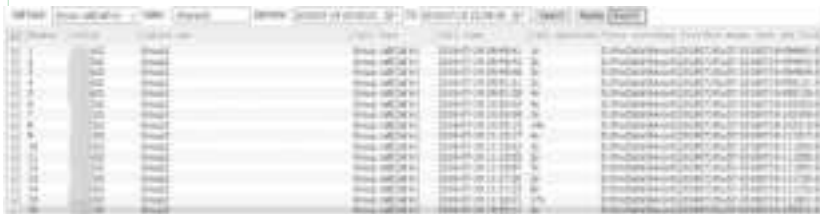
5. Replay:

You can double click the record to replay or click the record and click “Replay” to replay



6. Export:

Tick the records and then click the “Export”



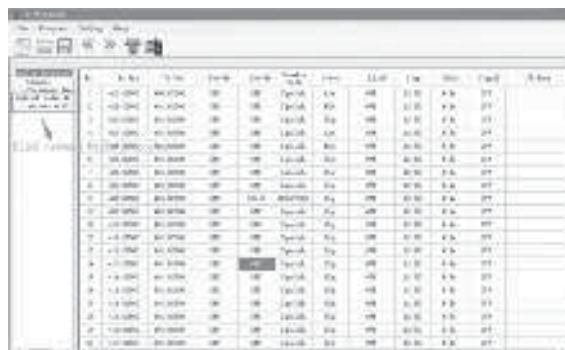
Programming software operation

Programming software operation:

There are 2 programming software for this radio: one is for 4G mode, another is for analog mode

- 4G mode:

Click network radio frequency

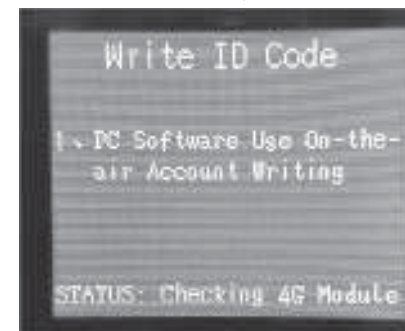


Then you will find the following interface:

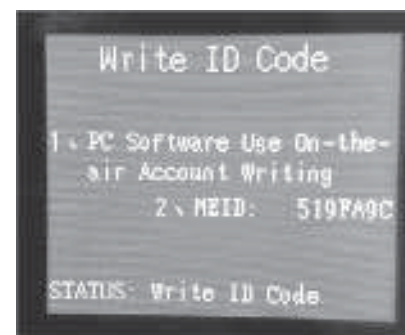


- On-the-air account writing

Press "G" PTT key then power on the radio, then you will find the interface:



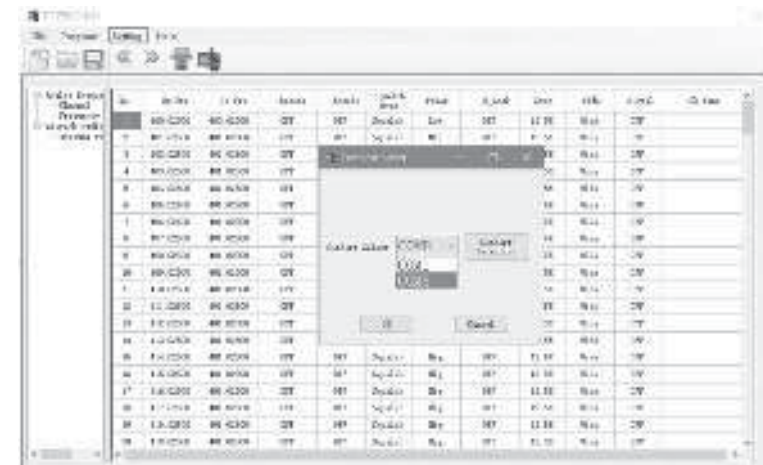
And waiting the MEID number:



Choose the port except the COM1



• Analog mode programming



Click the setting, and choose ComPort Select, and choose the Port except COM 1
Then click the read



Model	Frequency	Power	Modulation	Bandwidth	Channel Spacing	Guard Band	Channel Width	Channel Number	Channel Name	Channel Type	Channel Mode	Channel Color	Channel Icon
1	100.0000	100.0000	FM	12.5K	12.5K	12.5K	12.5K	1	100.0000	FM	12.5K	12.5K	12.5K
2	200.0000	200.0000	FM	12.5K	12.5K	12.5K	12.5K	2	200.0000	FM	12.5K	12.5K	12.5K
3	300.0000	300.0000	FM	12.5K	12.5K	12.5K	12.5K	3	300.0000	FM	12.5K	12.5K	12.5K
4	400.0000	400.0000	FM	12.5K	12.5K	12.5K	12.5K	4	400.0000	FM	12.5K	12.5K	12.5K
5	500.0000	500.0000	FM	12.5K	12.5K	12.5K	12.5K	5	500.0000	FM	12.5K	12.5K	12.5K
6	600.0000	600.0000	FM	12.5K	12.5K	12.5K	12.5K	6	600.0000	FM	12.5K	12.5K	12.5K
7	700.0000	700.0000	FM	12.5K	12.5K	12.5K	12.5K	7	700.0000	FM	12.5K	12.5K	12.5K
8	800.0000	800.0000	FM	12.5K	12.5K	12.5K	12.5K	8	800.0000	FM	12.5K	12.5K	12.5K
9	900.0000	900.0000	FM	12.5K	12.5K	12.5K	12.5K	9	900.0000	FM	12.5K	12.5K	12.5K
10	1000.0000	1000.0000	FM	12.5K	12.5K	12.5K	12.5K	10	1000.0000	FM	12.5K	12.5K	12.5K

Specifications

Category	Parameter	Value
GENERAL	Voltage	7.5V
	Operate system	linux
	Language	English
	Antenna	400mhz
	Display size	1.77 inch
	Battery capacity	7.5v 3000mah
	Working temperature	-20°C ~ +45°C
	Storage temperature	-20°C ~ +60°C
	Earphone	dual pt earphone
	Demision	134*60*39 mm
	Weight	294g
	Receiver	-106dBm
	TX Power Max	23 dBm~ 25 dBm@ All up bits
ANALOG PART	Frequency	400-470MHz (Tx:420-450MHz, Rx:400-470MHz, USA Version)
	Channel	200
	Frequency stable	± 1ppm
	Receiver sensitive	0.2 μV @ 12dB SINAD
	Adjacent selectivity	≤ -60dB@12.5KHz
	Mutual adjustment	≥65dB
	spurious response	≥ 70dB
	Audio response	+1 ~ -3dB
	Audio distortion	<5%
	Audio power	1.5W
	FM Noise	≥ 45dB@25KHz / ≥ 40dB @12.5KHz
	Transmit	

ANALOG PART	TX Power	high 5w low : 1w
	Emission current	≤ 1.6A
	FM Modulation	11K0F3E @ 12.5KHz / 16K0F3E @ 25KHz (Only EU Version)
	FM Distortion	<5%
	FM Noise	≥45dB@25KHz / ≥40dB@12.5KHz
	acadjacent channel power	≤ -60dB@12.5KHz
	Audio response	+1 ~ -3dB
Antenna port spurious	9KHz-1GHz: ≤ -36dBm 1GHz-12.75GHz: ≤ -30dBm	

ASIAN VERSION

TE FDD B1	TX:1920-1980MHZ	RX:2110-2170MHZ
TE FDD B3	TX:1710-1785MHZ	RX:1805-1880MHZ
TE FDD B5	TX:824-849MHZ	RX:869-894MHZ
TE FDD B8	TX:880-915MHZ	RX:925-960MHZ
TE TDD B38	TX:2570-2620MHZ	RX:2570-2620MHZ
TE TDD B39	TX:1880-1920MHZ	RX:1880-1920MHZ
TE TDD B40	TX:2300-2400MHZ	RX:2300-2400MHZ
TE TDD B41	TX:2555-2655MHZ	RX:2555-2655MHZ
WCDMA B1	TX:1920-1980MHZ	RX:2110-2170MHZ
WCDMA B8	TX:880-915MHZ	RX:925-960MHZ
TDSCDMA B34	TX:2010-2025MHZ	RX:2010MHZ-2025MHZ
TDSCDMA B39	TX:1880-1920MHZ	RX:1880-1920MHZ
GSM	900MHZ	1800MHZ

EUROPEAN VERSION

LTE FDD B1	TX: 1920-1980MHz	RX: 2110-2170MHz
LTE FDD B3	TX: 1710-1785MHz	RX: 1805-1880MHz
LTE FDD B7	TX: 2500-2570MHz	RX: 2620-2690MHz
LTE FDD B8	TX:880-915MHz	RX:925-960MHz
LTE FDD B20	TX:832-862MHz	RX:791-821MHz
LTE FDD B28	TX:703-748MHz	RX:758-803MHz
LTE TDD B38	TX:2570-2620MHz	RX:2570-2620MHz
LTE TDD B40	TX:2300-2400MHz	RX:2300-2400MHz
LTE TDD B41	TX:2555-2655MHz	RX:2555-2655MHz
WCDMA B1	TX:1920-1980MHz	RX:2110-2170MHz
WCDMA B8	TX:880-915MHz	RX:925-960MHz
GSM	900MHz	1800MHz

AMERICAN VERSION (9-450MHz Tx, 900-470MHz, USA version)

LTE TDD B2	TX:1850-1910MHz	RX:1930-1990MHz
LTE TDD B4	TX:1710-1755MHz	RX:2110-2155MHz
LTE TDD B5	TX:824-849MHz	RX:869-894MHz
LTE TDD B12	TX:699-716MHz	RX:729-746MHz
LTE TDD B13	TX:777-787MHz	RX:746-756MHz
LTE TDD B14	TX:788-798MHz	RX:758-768MHz
LTE TDD B66	TX:1710-1780MHz	RX:2100-2200MHz
LTE TDD B71	TX:663-698MHz	RX:617-652MHz
WCDMA B2	TX:1850-1910MHz	RX:1930-1990MHz
WCDMA B4	TX:1710-1755MHz	RX:2110-2155MHz
WCDMA B5	TX:824-849MHz	RX:869-894MHz

FCC Warnings and Statements

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 conditions that this device does not cause harmful interference.

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.

SAR tests are conducted using standard operating positions accepted by the FCC with the walkie talkie transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the walkie talkie while operating can be well below the maximum value. Before a new model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC, tests for each product are performed in positions and locations as required by the FCC.

For body worn operation, this device has been tested and meets the FCC RF exposure when used with an accessory designated for this product or when used with an accessory that Contains no metal.

To maintain compliance with the FCC RF exposure guideline, hold the transmitter and antenna at least 1.0 centimeters from your face and speak in a normal voice, with the antenna pointed up and away from the face.

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

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

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 following ways:
 - Go to the shop where you buy the machine.
 - Our local repairing agents.
 - Send back to our company.

Please cut along with this line

