



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℃ and 40℃ , 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

Unpacking and checking equipments

Getting familiar

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 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” .
- 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



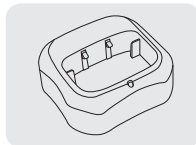
Radio



Battery



Antenna



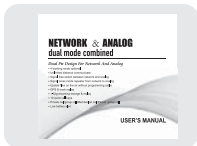
Desk charger



Ac adapter



Belt clip



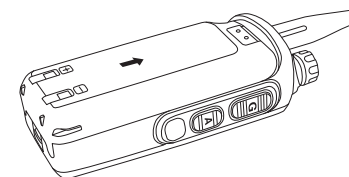
User's manual

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

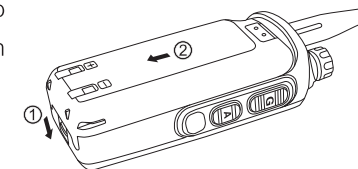
Installing and uninstalling of supplied accessories

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.

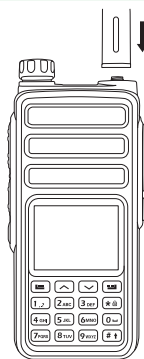


2. To move the battery, please make sure the radio is closed, push the battery latch up, and then push the battery out from the radio.



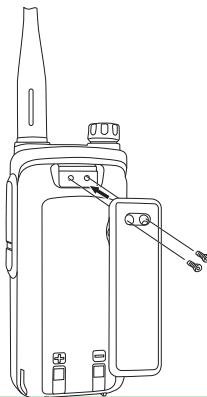
Installing the antenna

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



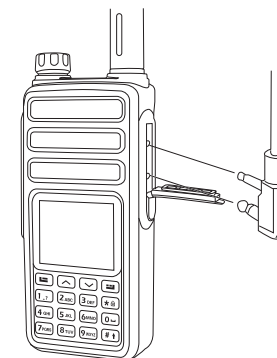
Installing belt clip

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 nit remove) the mic jack cover, insert the headset into the mic jack.

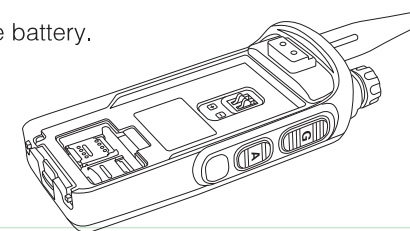


Installing SIM card

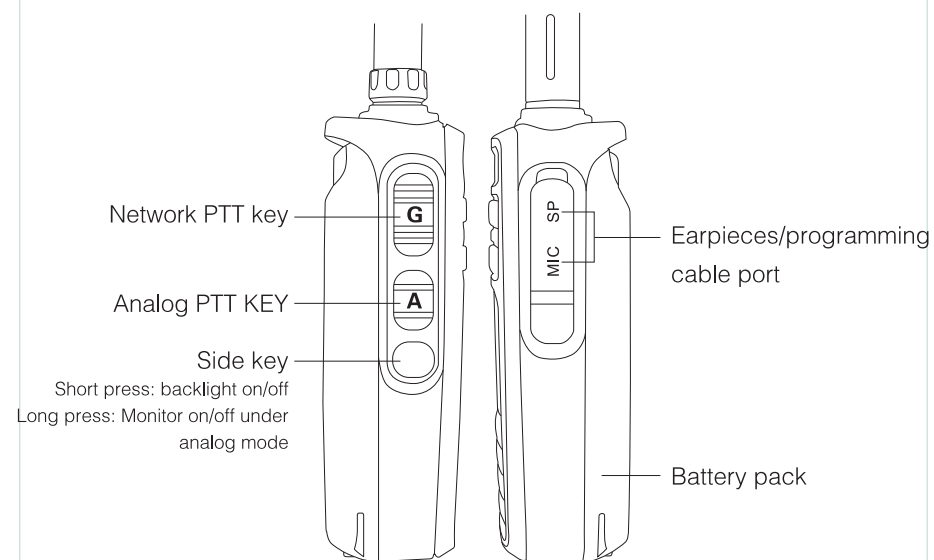
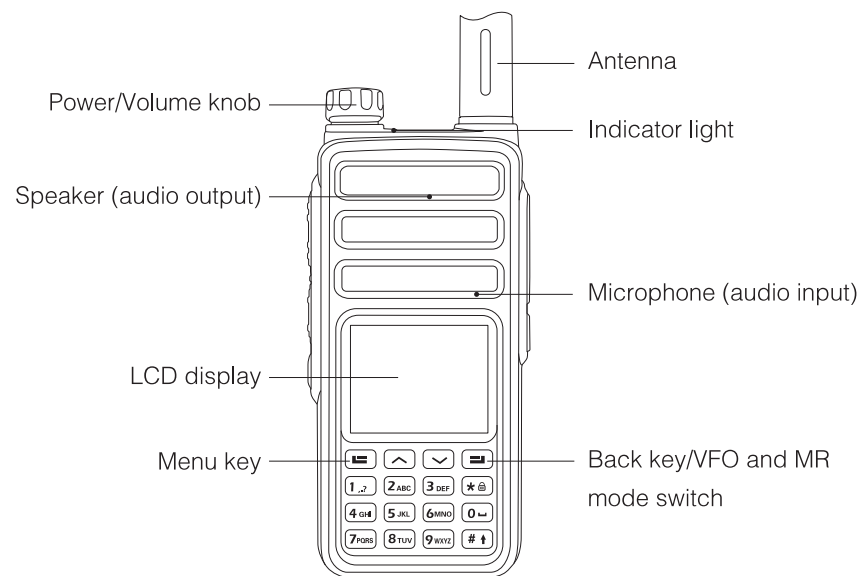
Please insert effective SIM card before use, make sure the SIM card can be effective in 4G/3G radio.

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

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• 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

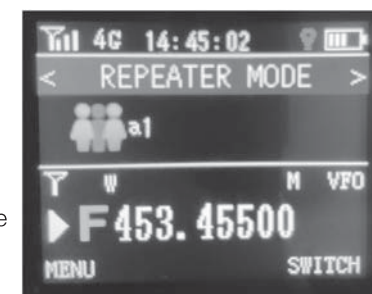


• Repeater mode

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.



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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

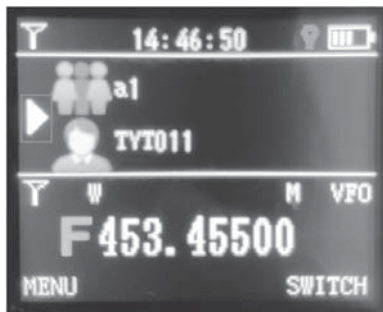
Backlight: 10 seconds 20 seconds 30 seconds Always open

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.

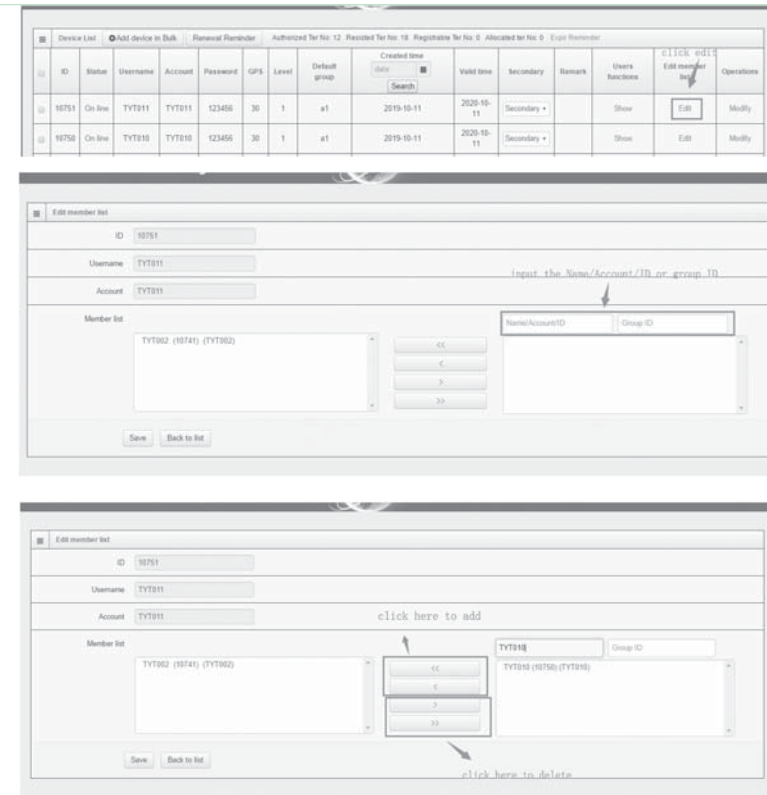
2. Member:

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:



ID	Status	Username	Account	Password	GPS	Level	Default group	Created time	Valid time	Secondary	Remark	Users Functions	Operations
10751	On line	TYT011	TYT011	123456	30	1	a1	2019-10-11	2020-10-11	Secondary		Show	Edit
10750	On line	TYT010	TYT010	123456	30	1	a1	2019-10-11	2020-10-11	Secondary		Show	Edit

Input the Name/Account/ID or group ID

Member list: TYT002 (10741) (TYT002)

click here to add

click here to delete

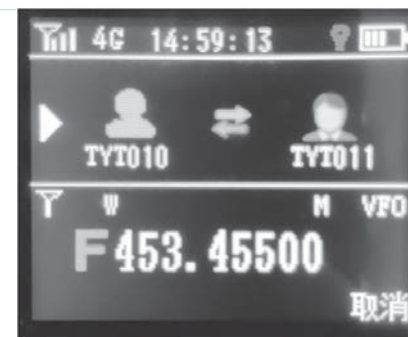
After you add the friend, you can check in the radio



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

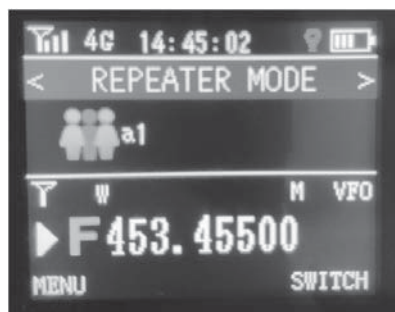
Analog network



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

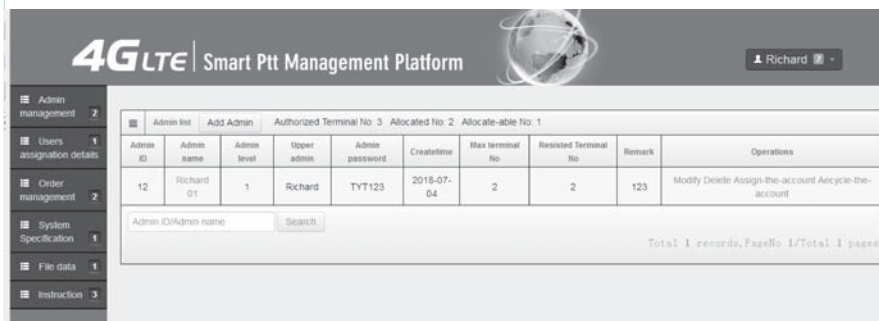
4G LTE smart PTT management platform

• 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	Upper admin	Admin password	Create time	Max terminal No	Resisted Terminal No	Remark	Operations
14		1			2018-07-05	3	3		Modify Delete Assign-the account Recycle-the account

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.

Sub-account details Authorized Terminal No 4: Allocated No 3: Allocate-able No 1: Resisted No 3:						
ID	Name	Level	Password	Primary account	Create time	Detail of use
14	01	1			2018-07-05	Resisted No 3 Unresisted No 0 Authorized No 3
Search: Admin ID/Admin name						
Total 1 records, PageNo 1/Total 1 pages						

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 admin	Operation objects	Order states	Create time	Operations
12	Return the surplusaccount			Admin approved.	2018-07-19	Order-detail
11	Add account			Admin approved.	2018-07-19	Order-detail
6	Expand the valid time	S		Waiting Admin approval.	2018-07-13	Order-detail
5	Add account	S		Waiting allocation admin to approve.	2018-07-13	Order-detail
4	Return the surplusaccount			Admin approved.	2018-07-13	Order-detail
3	Add presold account	HCA		Admin approved.	2018-07-13	Order-detail
2	Add account			Admin approved.	2018-07-13	Order-detail

Add order

1. When the account quantity 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.

you can search for the renewal device account or user name

to select the device account to renew

Please choose the renew account

AccountUsername

DeviceID

Please choose the renew time

months (Please input the integer). *Note: The renew time will start from that date the account is approved and renew time is 12 months in maximum.

Save Back to list

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.

Edit Password

Old Password

New Password

Confirm New Password

Save Back to list

For third level admin

61	Off Line	4GTest	2019PFA	111111	30	1	2019	2019-07-17	2019-07-17		Show	Edit	Modify
60	Off Line	Betsy3	4GTest	111111	30	1	2019	2019-07-17	2019-07-17		Show	Edit	Modify
58	On line	Betsy 2	2019PFA	123456	30	1	2019	2019-07-13	2019-07-13		Show	Edit	Modify
50	On line	Betsy	PFA	123456	30	1	2019	2019-07-12	2019-07-12		Show	Edit	Modify
34	Off Line	456	0012491	111111	30	1	A01	2019-07-05	2019-07-05		Show	Edit	Modify
33	Off Line	123	0003383	111111	30	1	A01	2019-07-05	2019-07-05		Show	Edit	Modify

NameAccount Search

Total 7 records,PageNo 1/Total 1 pages

Group management

Add the group first

as below

4G LTE Smart Ptt Management Platform

Richard 01

Add Group

Group Name

AccountUsername

Remark

Save Back to list

Chinese allowed, while it must less than 8 character

can add the previous device directly if not add, just save the group

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

Name	Password (Special characters other than the underline "_" cannot be included)	Account (Only letter and numbers)	Default Group ID	The Group ID the member in (Use "1" to black multiple Group ID)	User functions (* multiple functions to fill in the corresponding number, separated by a vertical line") [Contact list: 1], [Check location: 2], [Record: 3], [Monitor: 4], [Remote kill: 5], [Group Call: 6], [Call prohibition: 7], [Single call: 8], [Group watch: 9], [Location: 10], [Voice record: 11], [To get the group member: 12], [The last group: 13], [The terminals in private call cannot be called again by third party: 14]
xgnet01		133111.XPTEST05	562		562 #121314
xgnet02		133111.XPTEST06	562		562 #121314
xgnet03		133111.XPTEST07	562		562 #121314
xgnet04		133111.XPTEST08	562		562 #121314
xgnet05		133111.XPTEST09	562		562 #121314

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 list						
Add order						
Order No	Order type	Previous admin	Operation objects	Order states	Create time	Operations
5	Add account	Shane	Shane01	Waiting allocation admin to approve.	2018-07-13	Order-detail
4	Return the surplusaccount	Shane	Shane01	Admin approved.	2018-07-13	Order-detail

File data

You can change the password in this interface

Edit Password	
Old Password	
New Password	
Confirm New Password	
SaveBack 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

4G radio account writing tools (Version : 1.0.0.21)

Account writing types

☐ programming cable account writing

☒ on-the-air account writing Change IP

MEID server IP

Account writing management

dealer password

account ID

password

IP address

☐ New password setting

choose the GPS ON

☒ Private call ☒ GPS on/off ☐ Off line beep

progress

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

☒ Contact list ☒ Check location ☒ Record ☒ Monitor ☐ Remote kill ☒ Group call ☐ Call prohibition

Users Functions

☒ Check all ☒ Single call ☒ Group switch ☒ Location ☒ Voice record ☒ To get the group member ☒ The last group

☒ The terminals in private call cannot be called again by third party

*All elected functions will consume the data, please open the functions needed.

3. The radio should selects 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

☒ Contact list ☒ Check location ☒ Record ☒ Monitor ☐ Remote kill ☒ Group call ☐ Call prohibition

Users Functions

☒ Check all ☒ Single call ☒ Group switch ☒ Location ☒ Voice record ☒ To get the group member ☒ The last group

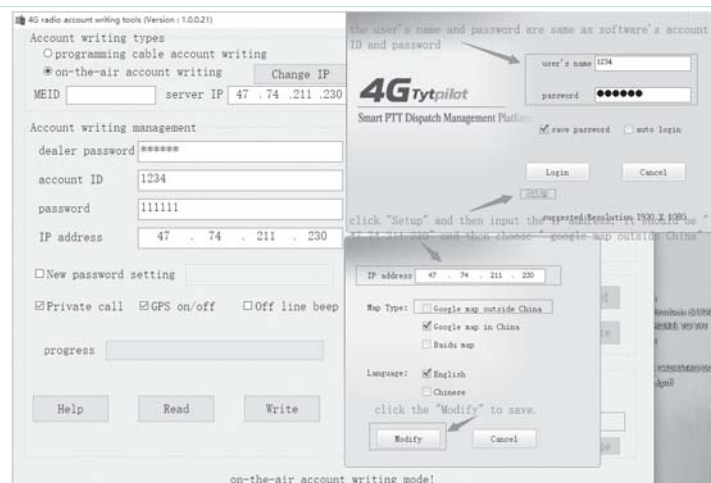
☒ The terminals in private call cannot be called again by third party

*All elected functions will consume the data, please open the functions needed.

Current group ID

*This project is added by clicking on the items in the selected group.

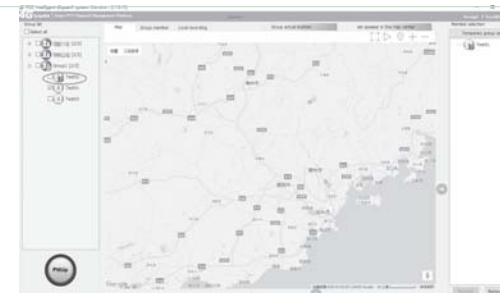
Set the IP address and GOOGLE/Baidu Map , and login in.



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	Status	Username	Account	Password	GPS	Level	Default group	Created time	Valid time	Remark	Users Functions	Edit member list	Operations
57	On line	Station02	Station02	111111	30	1	Group1	2018-07-13	2019-07-13		Show	Edit	Modify



Private call

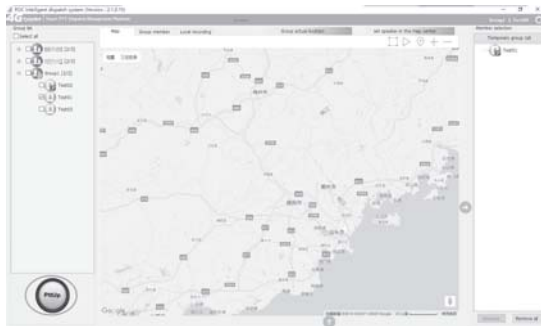
1. Private call, when the dispatcher choose this function, it can transmit anyone in private call.

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

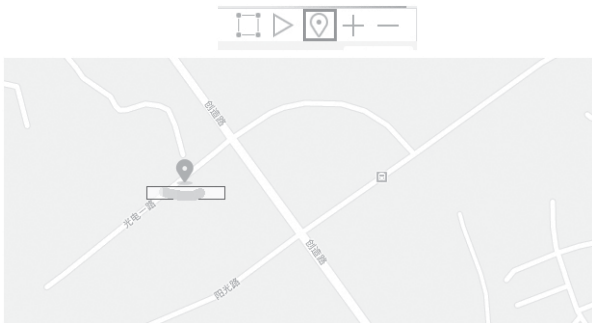
Note: The GPS function only work outside, in the common case, it will open within 1 minutes, the weather will affected.

Get location

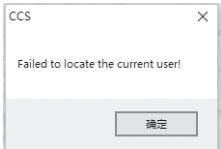
Get location, you can know the radio’ s place.

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:

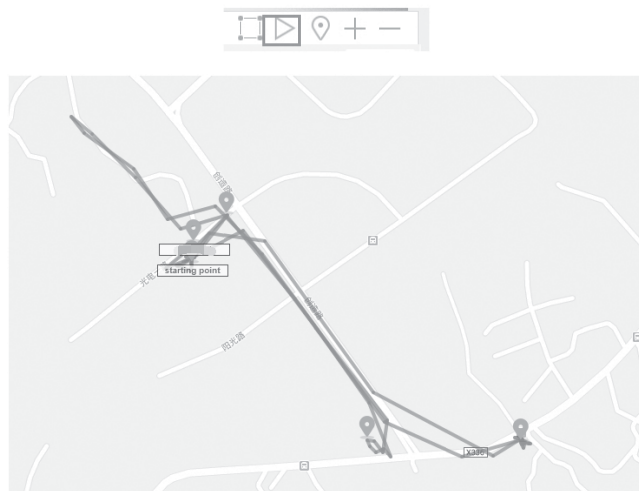


Get track:

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,

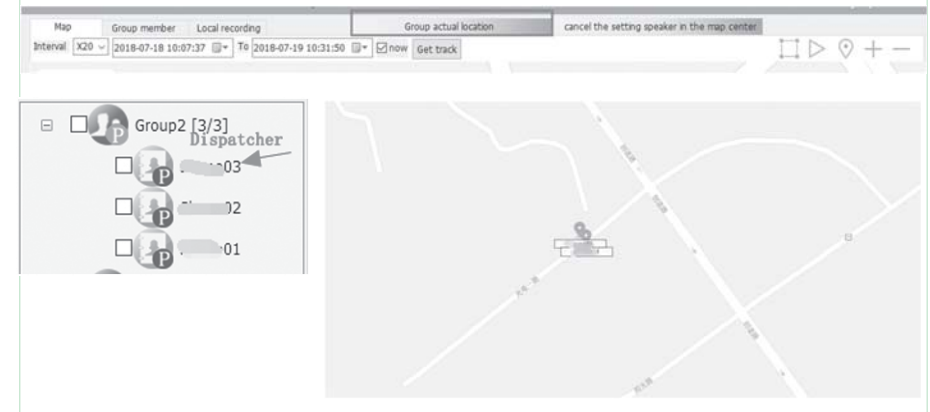
It means the radio will uploads the GPS information in the chosen time.

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.



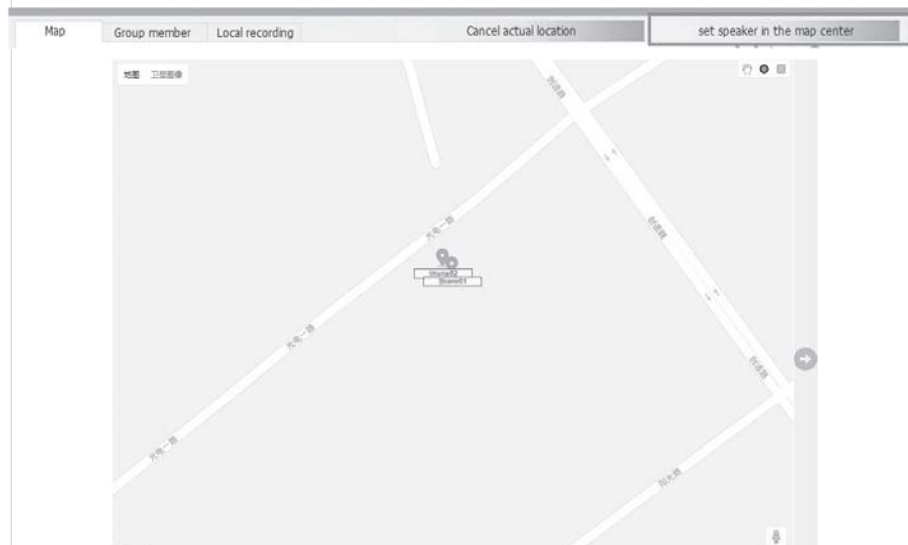
Click “Cancel actual location” to exit the group actual location function



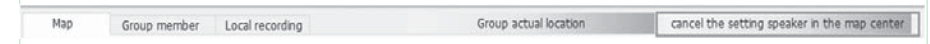
Set speaker in the map center:

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.

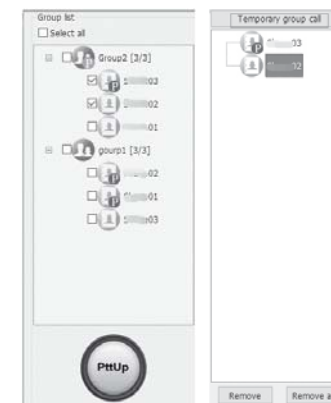


Create a temporary group:

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”

☒ Select all

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



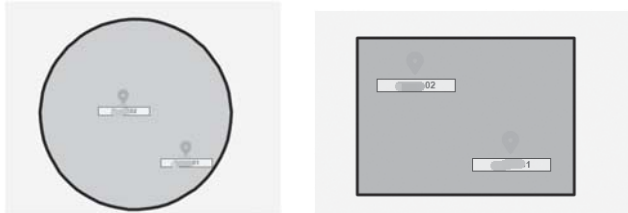
And you will find the following three keys:



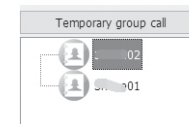
Click key can move the map;

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

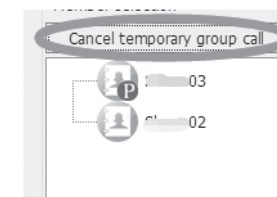


3. Then you will find the radios in these range will add to temporary group

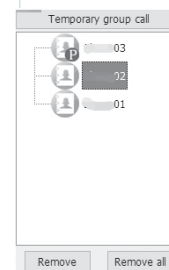


After finished to finished circle the range, please click key to exit.

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”



Remove Remove all

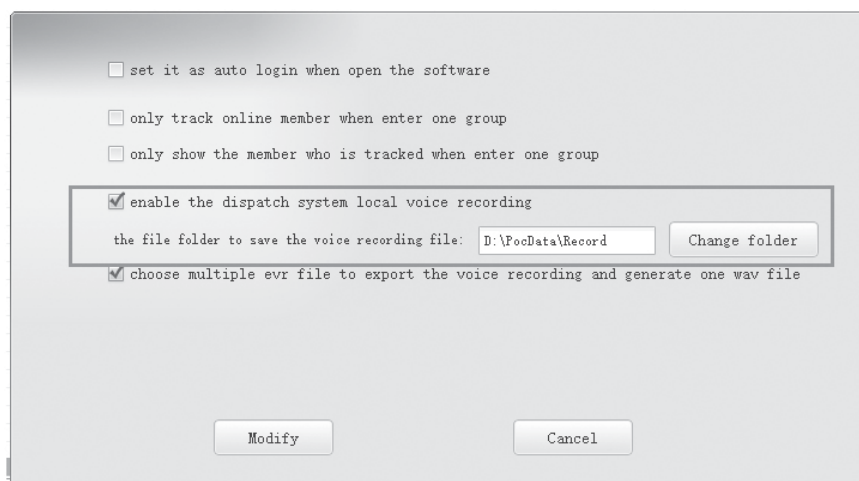
If you want to disband this temporary group, please click “remove all”

Local Recording:

1. Click  key

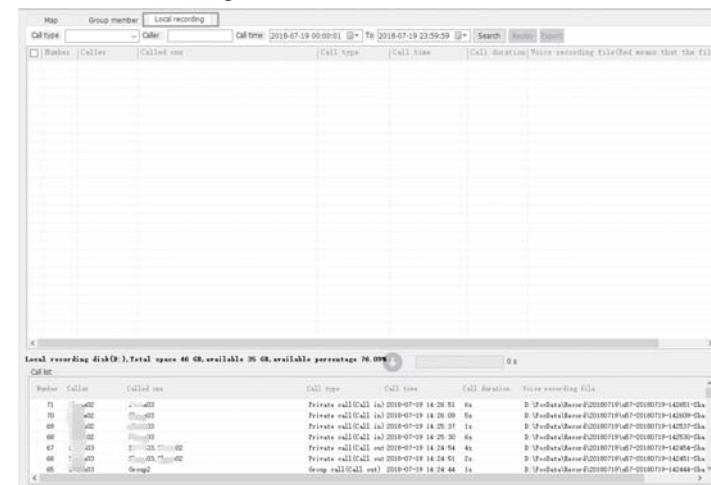


Then you will find the following interface:

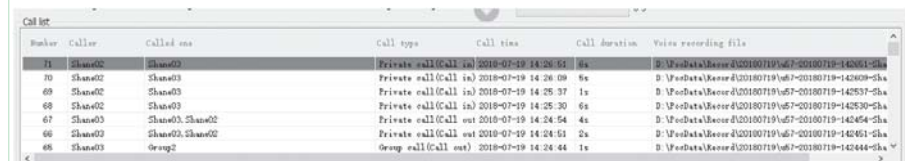


Ensure the function has marked is chosen

2. Click the “Local recording”



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



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

Number	Caller	Callee	Call type	Call time	Call duration	Voice recording file (Red means that the file is deleted)
1	403	401	Private call out	2018-07-19 11:25:49	26	D:\PocData\Record\20180719\57-20180719-112549-6
2	403	401	Private call out	2018-07-19 11:25:51	16	D:\PocData\Record\20180719\57-20180719-112551-6
3	403	401	Private call out	2018-07-19 11:33:38	16	D:\PocData\Record\20180719\57-20180719-113338-6
4	403	401	Private call out	2018-07-19 14:24:51	26	D:\PocData\Record\20180719\57-20180719-142451-6
5	403	402	Private call out	2018-07-19 14:24:54	46	D:\PocData\Record\20180719\57-20180719-142454-6

6. Export:

Tick the records and then click the “Export”

Number	Caller	Callee	Call type	Call time	Call duration	Voice recording file (Red means that the file is deleted)
☒ 1	402	Group2	Group call in	2018-07-19 09:48:41	16	D:\PocData\Record\20180719\57-20180719-094841-6
☒ 2	402	Group2	Group call in	2018-07-19 09:48:43	36	D:\PocData\Record\20180719\57-20180719-094843-6
☒ 3	402	Group2	Group call in	2018-07-19 09:48:46	36	D:\PocData\Record\20180719\57-20180719-094846-6
☒ 4	402	Group2	Group call in	2018-07-19 09:51:21	26	D:\PocData\Record\20180719\57-20180719-095121-6
☒ 5	402	Group2	Group call in	2018-07-19 09:51:28	46	D:\PocData\Record\20180719\57-20180719-095128-6
☒ 6	02	Group2	Group call in	2018-07-19 10:53:03	46	D:\PocData\Record\20180719\57-20180719-105303-6
☒ 7	02	Group2	Group call in	2018-07-19 10:53:09	36	D:\PocData\Record\20180719\57-20180719-105309-6
☒ 8	02	Group2	Group call in	2018-07-19 10:53:15	146	D:\PocData\Record\20180719\57-20180719-105315-6
☒ 9	02	Group2	Group call in	2018-07-19 11:15:17	46	D:\PocData\Record\20180719\57-20180719-111517-6
☒ 10	402	Group2	Group call in	2018-07-19 11:15:43	26	D:\PocData\Record\20180719\57-20180719-111543-6
☒ 11	402	Group2	Group call in	2018-07-19 11:15:53	26	D:\PocData\Record\20180719\57-20180719-111553-6
☒ 12	02	Group2	Group call in	2018-07-19 11:15:57	76	D:\PocData\Record\20180719\57-20180719-111557-6
☒ 13	02	Group2	Group call in	2018-07-19 11:17:20	26	D:\PocData\Record\20180719\57-20180719-111720-6
☒ 14	402	Group2	Group call in	2018-07-19 11:17:23	86	D:\PocData\Record\20180719\57-20180719-111723-6
☒ 15	02	Group2	Group call in	2018-07-19 11:18:21	176	D:\PocData\Record\20180719\57-20180719-111821-6
☒ 16	402	Group2	Group call in	2018-07-19 15:53:11	26	D:\PocData\Record\20180719\57-20180719-155311-6

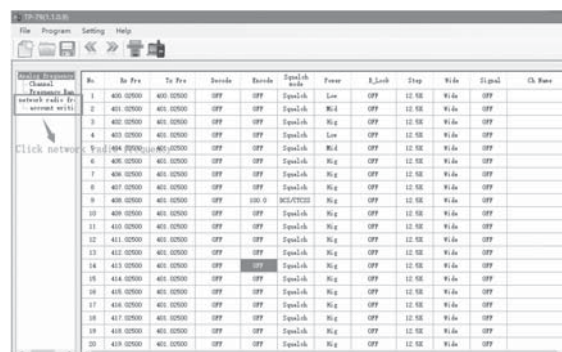
Programming software operation

Programming software operation:

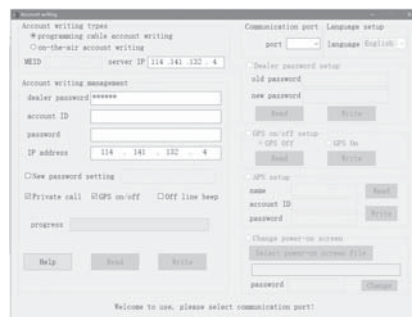
There are 2 programming software for this radio: one is for 4G mode, another is for analog mode

•4G mode:

Click network radio frequency

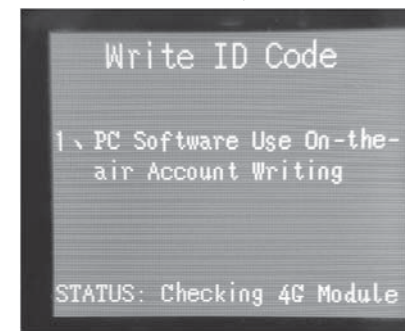


Then you will find the following interface:

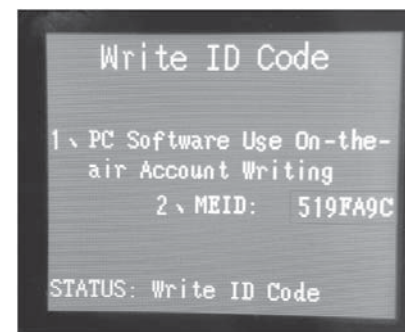


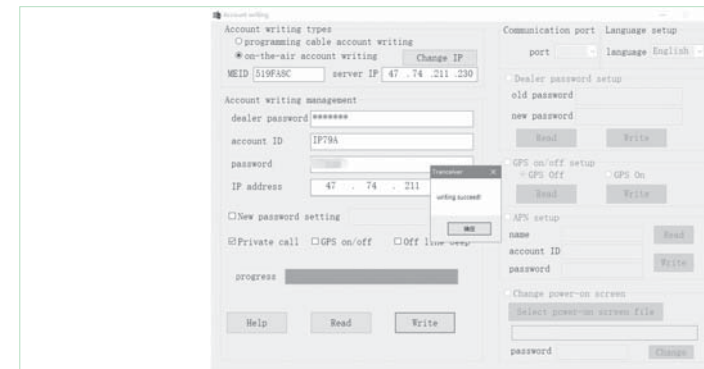
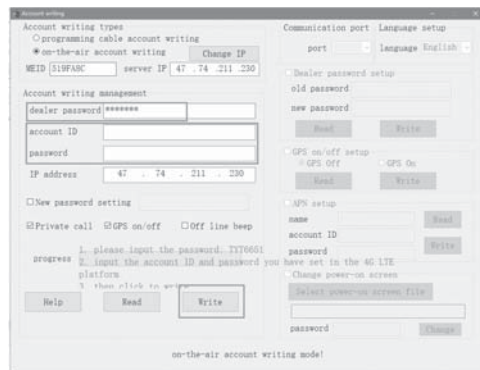
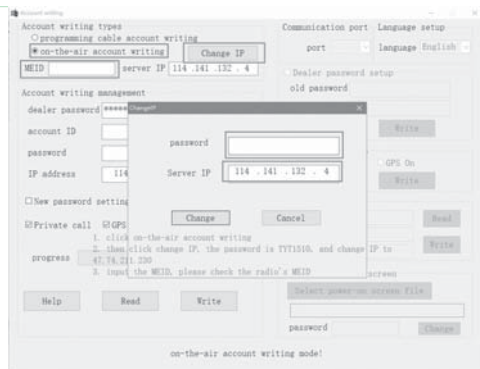
• On-the-air account writing

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



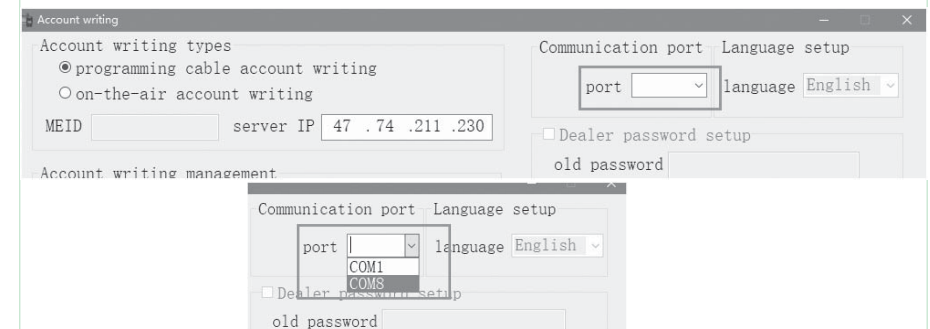
And waiting the MEID number:





• Programming cable account writing

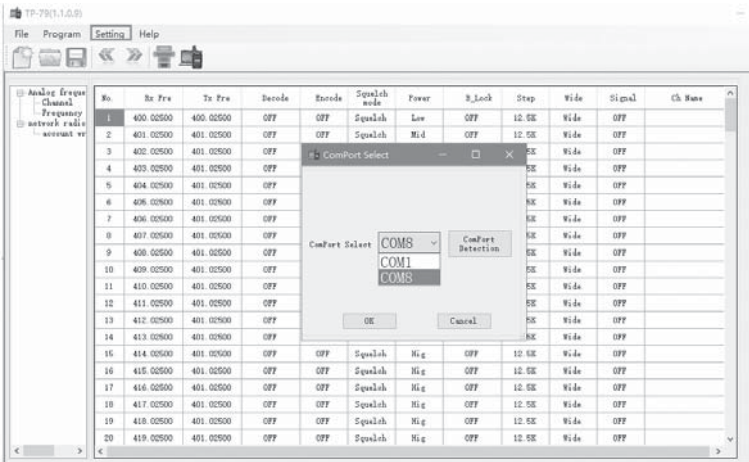
Input the programming cable and connect with radio, then check the port



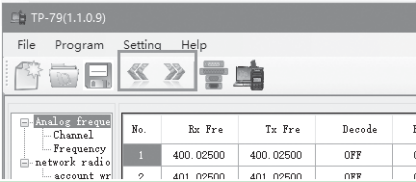
Choose the port except the COM1



• Analog mode programming



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



No.	Rx Freq	Tx Freq	Decode	Encode	Squelch mode	Power	B-Lock	Step	Wide	Signal	Ch Name
1	443.45500	453.45500	OFF	OFF	Squelch	Hig	OFF	12.5K	Wide	OFF	...
2	469.96750	469.96750	69.3	69.3	DCS/CTCSS	Hig	OFF	12.5K	Wide	OFF	...
3	435.52500	435.52500	OFF	OFF	Squelch	Hig	OFF	12.5K	Wide	OFF	...
4	454.52500	454.52500	OFF	OFF	Squelch	Hig	OFF	12.5K	Wide	OFF	...
5	420.17500	420.17500	OFF	OFF	Squelch	Hig	OFF	12.5K	Wide	OFF	...
6											
7											
8	460.52500	460.52500	OFF	OFF	Squelch	Hig	OFF	12.5K	Wide	OFF	
9											
10											
11											
12											
13											
..											

Specifications

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 ptt earphone
	Dimension	134*60*39 mm
	Weight	294g
ANALOG PART	Receiver	-106dBm
	TX Power Max	23 dBm~ 25 dBm@ All up bits
	Frequency	400-470MHz (Tx:420-450MHz, Rx:400-470MHz, USA Version)
	Channel	200
	Frequency stable	± 1ppm
	Receiver sensitive	0.2 μ V @ 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 (20-450MHz, Rx 400-470MHz, 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 Warnin s 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 maintaion 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 comply 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 coufirm 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 followingways:
 - Go to the shop where you buy the machine.
 - Our local repairing agents.
 - Send back to our company.

Please cut along with this line

