DPMR Digital Transceiver
Trand name:TYT
Model name:DM-UVF10
Frequency:136-174MHz,400-480MHz
FCC ID:PODDM-UVF10

http://www.tyt888.com

Checking Items in the Package

Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.
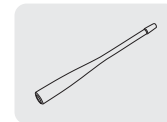
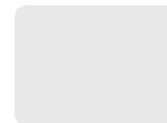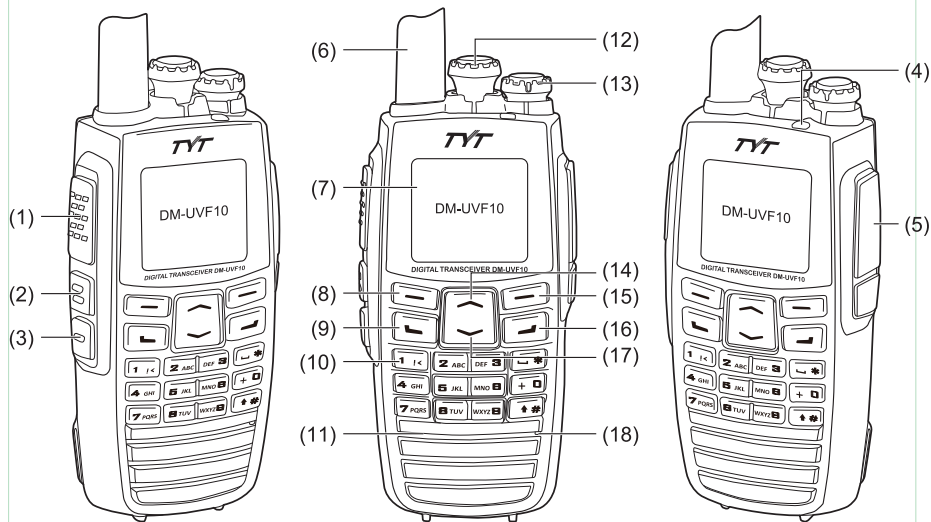|			
Radio Unit (1)	Battery (1)	Charger (1)	Antenna (1)
Belt Clip (1)	Power Adapter (1)	Strap (1)	User's Manual

Note: The antenna may vary with different frequency bands. And the frequency band is marked on the label of antenna; if not, please refer to the label on the radio unit for frequency band information.

Radio Overview

Radio Controls

No.	Part Name	No.	Part Name
1	PTT Key	10	Numeric Keypad
2	SK1 (Side Key 1)	11	Speaker
3	SK2 (Side Key 2)	12	Channel Selector Knob
4	LED Indicator	13	Radio On-Off/Volume Control Knob
5	Mic/speaker Jack/Programming port	14	UP Key
6	Antenna	15	Back Key
7	LCD Display	16	P2 (Programmable Key)
8	OK/Menu Key	17	Down Key
9	P1 (Programmable Key)	18	Microphone

Programmable Keys

For enhanced convenience, you may request your dealer to program the keys SK1, SK2, ◣ and ◢ functions listed below:

No.	Shortcut Keys	Description
1	VFO Key	Exchange between VFO model and MR mode
2	Backlight	Backlight ON/OFF
3	MONI	Monitor

4	Contact List	Quick access to Contact List
5	Message	Quick access to the menu "Message"
6	Adjust Power Level	To adjust power level through one button press.
7	Talk Around	To directly communicate with other radios.
8	Monitor	To adjust the condition for incoming signal match.
9	Reverse	Exchanging of RX frequency and TX frequency
10	Home Screen	To quickly return to the previous menu or home screen.
11	Scan	To receive signlas on other channels
12	Repeater	Connect with repeater
13	Emergency	To summon help in emergent situations.
14	CH Type	Analog, Digital, Mixer-D, Mixer-A
15	1750Hz Tone	Transmit 1750Hz tone to connect with repeater
16	Scrambler (Encryption)	Keep communication encrypted (Only for digital mode)

Note: (1) Long and short press of a key can be assigned with different functions by your dealer.
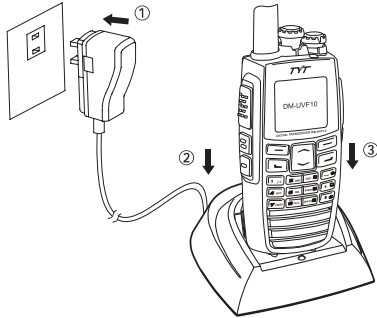
Before Use

Status Indicators

http://www.tyt888.com

Before Use

Charging the Battery

Use only the charger and battery specified by Hytera. Charger LED can indicate the charging progress.

Charge Diagram

Procedures

1. Connect the power adapter to AC source. See arrow ①.
2. Plug the power adapter into the rear socket of the charger. See arrow ②.
3. Place the radio with the battery attached, or the battery alone, into the charger.
4. The charging process initiates when LED glows red, and is completed when LED glows green.

Note: To achieve optimal battery performance, please charge the battery for 5 hours before initial use.
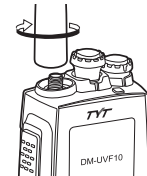
Charge Indicator

LED Indicator	Charge Status
LED flashes red slowly.	Standby (no load)
LED glows red.	Charging
LED glows green.	Fully Charged
LED flashes red rapidly.	Failure

Caution: Be sure to read the Safety Information Booklet, to get necessary safety information.

Assembly and Disassembly
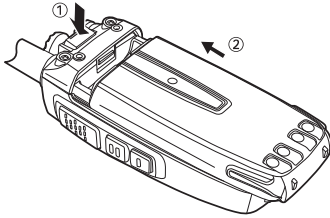
Attaching the Antenna

Turn the antenna clockwise to fasten it.

To remove the antenna, rotate it counter-clockwise.

Attaching the Battery

1. Insert the battery into top of the radio. See arrow ①.
2. Slightly press the bottom of the battery until a click is heard. See arrow ②.

To remove the battery, turn off the radio first. Then slide the battery latch upwards to unlock the battery.
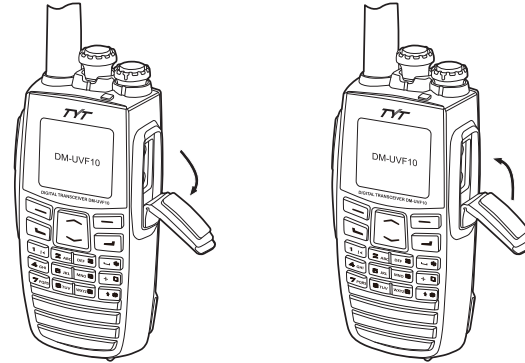
Attaching the Belt Clip

1. Remove the screws;
2. Align the screw holes on the belt clip with those on the radio's body, and then tighten the screws.
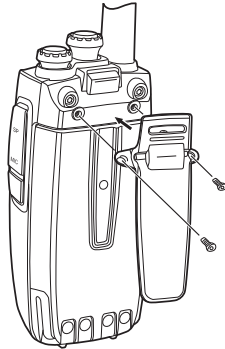
To remove the belt clip, loosen the screws.

Attaching AudioAccessoy/Programming Cable

1. Open the accessory jack cover as the arrow shown.
2. Align the plug with the accessory jack.
3. Tighten the screw on the plug.

To remove accessories, loosen the screw.

Status Indicators

LCD Icons
▪ Status Icons

Icon Name	Icon	Radio Status
RSSI	📶✕	No signal;
	📶 📶 📶 📶 📶	More bars indicate better signal strength;
Message Icons	✉	New Message/Unread Message;
	✉	InBox is full;
Tx Power Icons	Ⓛ	Low Tx power for the current channel;
	Ⓗ	High Tx power for the current channel;
Battery Strength Icons	▭ ▯ ▮ ▮	More bars indicate more battery power;
Speaker Icon	🔊	The speaker is unmuted;
Scrambler (Encryption)	📝	Keep communication encrypted (Only for digital mode)
Signaling	DT	Current channel has DTMF signaling
	2T	Current channel has 2TONE signaling
	5T	Current channel has 5TONE signaling

▪ Operation Mode Icons

Icon Name	Icon	Operation Mode
Operation Mode Icons	DM	Direct Mode Operation: Under this mode, radios communicate with each other directly.
	RM	Repeater Mode Operation: Under this mode, radios communicate with each other via a repeater.

LED Indicator
The top LED indicator will help you easily identify current radio status.

LED Indicator	Radio Status
LED flashes green.	Powering on
LED glows red.	Transmitting
LED glows green.	Receiving
LED flashes orange.	Scanning
LED glows orange.	In emergent situation.

Basic Operations

Call

Basic Operations

Turning the Radio On/Off
Rotate the Radio On-Off/Volume Control knob clockwise/ counter-clockwise until a click is heard to turn the radio on/off.

Adjusting the Volume
After turning the radio on, rotate the Radio On-Off/ Volume Control knob clockwise to incr- ease the volume, or counter-clockwise to decrease the volume.

Selecting a Channel
Rotate the Channel Selector knob to select a desired channel.

Digital/Analog Switch
Each channel can be programmed as either analog channel or digital channel. If the current zone includes both analog and digital channels, you may quickly switch between digital and analog through the menu->Radio Set->ch Type

Locking/Unlocking the Keypad
When the keypad is not in use, you can lock the keypad to prevent accidental keypad ope- ration. Three methods are available for you to lock or unlock the keypad:
1. Through ⌨ Key
   Short press ⌨ key for 2s to lock or unlock the keypad.

2. Through the function key

Press the programmed Keypad Lock key to lock or unlock the keypad.

3. Through menu selection Go to Menu->Radio Set->Keypad Lock and then select Disable or Manual or Auto.

Auto: The keypad will be locked automatically if no operation is made for the preset time period.

Manual: The keypad will not be locked automatically. However, you can lock or unlock the keypad via the key combination or **Keypad Lock** key mentioned above.

Disable: The keypad lock function is unavailable no matter which keys you press.

Call

Transmitting a Private Call

You may transmit a Private Call through any of the following methods. When transmitting a Private Call, the icon ➡ will appear.

▪ **Transmitting a call to the preset contact**

In standby mode, pressing PTT key will transmit an individual call to the contact (a Private Call number) preset for the current channel.

Note: Your dealer may preset a contact for each digital channel. The preset contact could be a Private Call number, a Group Call number or an All Call number.

▪ **Transmitting a call through Contact List or Call Logs**

1) Go to Contact -> Contact List, or go to Call Logs -> Call List.

2) Use the Up/Down key to select the Private Call number you want to call.

3) Hold down PTT key to transmit a Private Call to the selected contact.

▪ **Transmitting a call through Manual Dial**

1) In standby mode, press .

2) Input a private call number you want to call.

3) Press PTT key to transmit a call.

Transmitting a Group Call

You may transmit a Group Call through any of the following methods. When transmitting a Group Call, the icon ➡ will appear.

■ Transmitting a call to the preset contact

In standby mode, pressing PTT will transmit a Group Call to the contact (a Group Call number) preset for the current channel.

■ Transmitting a call through Contact List

1) Go to Contact -> Contact List.
2) Use the Up/Down key to select the Group Call number you want to call.
3) Hold down PTT to transmit a Group Call to the selected contact.

Transmitting an All Call

Methods are the same as those in Transmitting a Group Call. When transmitting an All Call, the icon ➡ will appear.

Note: You can transmit an All Call only when it is enabled via programming software.

Receiving and Responding to a Call

■ Receiving a Call

When a call is received, your radio will display the corresponding icon as follows: ⬅ for a Private Call, ⬅ for a Group Call and ⬅ for an All Call.

■ Responding to a Private/Group Call

After a Private Call or Group Call is received, you may press the **PTT** key within the preset time period to call back.

If you do not respond to a received Private Call, the radio will display the missed call icon .

Note: You cannot respond to an All Call.

Calls on Analog Channels

To transmit on an analog channel, hold down the **PTT** and speak into the microphone. To receive, release the **PTT**.

Note: To ensure an optimal volume for the receiving radio, hold the radio approximately 2.5 to 5 centimeters away from your mouth during transmission.

Menu Navigation

Functions and Operations

http://www.tyt888.com

Menu Navigation

```
                        ┌───────────┐
                        │ Main Menu │
                        └───────────┘
    ┌────────┬────────┬────────┬────────┬────────┬────────┬────────┐
┌────────┐┌────────┐┌────────┐┌────────┐┌────────┐┌────────┐┌────────┐┌────────┐
│Contact ││Call Logs││Message ││Radio Set││Device Info││VFO Mode││Signaling││Accessories│
└────────┘└────────┘└────────┘└────────┘└────────┘└────────┘└────────┘└────────┘
```
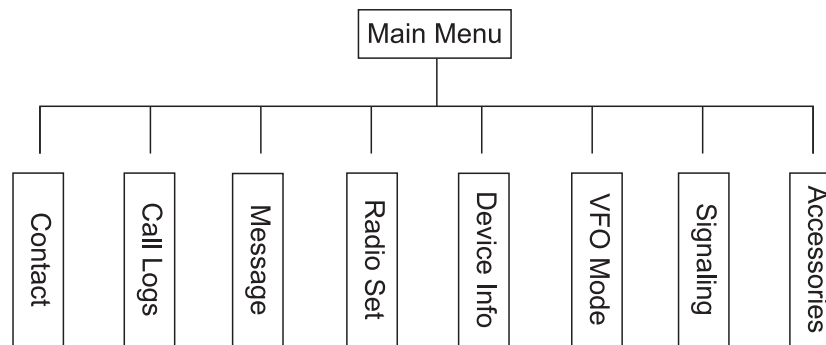
Contact

To access this item, press Menu key in idle mode and then select "Contact".

Contact
1 Contact List
2 New Contact

Select   Back

◘ Contact List

To access this item, select "Contact -> Contact List" or press the shortcut key for Contact List.

Editing a Contact

You can edit the number and alias of each Private Call contact.

Viewing a Contact

You can view details of each contact.

Deleting a Contact

You can delete a Private Call contact. However, please note that you can not delete the contact when there is only one entry left in the list. In addition, the private contact preset on the digital channel cannot be deleted.

◘ New Contact

You can add a Private Call contact to the contact list. The number and alias of each contact must be unique, and the available number range is 1-8999999.

◘ Manual Dial

You can manually input the private call number for calling.

Message 🔘

To access this item, press the Menu key in idle mode and then select "Message", or press the shortcut key for Message directly.

◘ New Msg

You can create your desired text message (256 characters at most) and send it to an individual user or to a talk group.

◘ InBox

The InBox can save up to 16 received messages. When the InBox is full, the icon ✉ will appear, and the oldest entry will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: View, Delete and Delete All. To delete all messages in the InBox, select "Message -> InBox -> Delete All".

Radio Set

Mode

There are VFO Mode, CH Mode and MR Mode for Analog Mode and Digital Mode, press Menu->Radio Set->Mode to select VFO Mode, CH Mode or MR Mode or press the shortcut key for Mode.

ch Type

There are Analog Type, Digital Type, Mixer-D Type and Mixer-A Type, press Menu->Radio

Set->ch Type to select Analog Type, Digital Type, Mixer-D Type or Mixer-A Type, or press the shortcut key for ch Type.

Power Level

To press Menu->Radio Set-> Power Level to select High or Low Power or press the shortcut key for Power Level.

CH Display

Under CH mode, to press Menu->Radio Set-> CH Display to select CH Number or CH Name.

CH Name

Under CH mode, to press Menu->Radio Set-> CH Name to edit your desired CH Name.

CTCSS/DCS

Under VFO mode, To press Menu->Radio Set-> CTCSS/DCS to set CTCSS/DCS.
Press UP and DOWN Key to choose desired CTCSS or DCS value.
Press ⬚ to exchange between CTCSS and DCS.

Scan

To press Menu->Radio Set->Scan to enable or disable Scan.
Please note that this function only available where there are more than two channles.

Busy lock

To press Menu->Radio Set->Scan to Off, Carrier or CTCSS/DCS.

Encrypt

To press Menu->Radio Set-> Encrypt to select Disable or Enalbe or press the shortcut key for encrytion.

Squelch level

To press Menu->Radio Set-> Squelch level to select level.
The squelch level will determine the signal strength to open the speaker of the radio. If the squelch level is lower, the background noise of opening the radios speaker will be higher, and the corresponding communication range will be further, but the anti-interference capacity will be weaker.
The default setting of squelch level is 5, level 0 to 9 can be selected. 0 is the lowest level.

Beep tone

To press Menu->Radio Set-> Beep tone to Enable or Disable Radio Tone, Key Tone, Msg tone, Private Call tone, Group Call tone, Talk Permit tone, Call End tone, Voice End tone and HSD tone.

LED

To press Menu->Radio Set-> LED to enable or disable LED.

TOT

To press Menu->Radio Set-> TOT to set TOT time.

VOX

To press Menu->Radio Set-> VOX to enable or disable VOX.

To make VOX more suitable for everyone to use, with different speaking volume and tone.

VOX Level

To press Menu->Radio Set-> VOX to set VOX sensibility, there are 9 groups available, and default setting is 5.

Backlight

To press Menu->Radio Set-> Backlight to set it as On, Off or Timed.

Brightness

To press Menu->Radio Set-> Brightness to set the brightness of backlight, one is darkest and five is brightest.

Dual wait

To press Menu->Radio Set-> Dual Wait to Disable or Enable Dual Wait function.

TX Transmit

To press Menu->Radio Set-> TX Select to set priority transmission.

DM-UVF10 allows you to transmit in the sub band even if you are working on the operating band.

Selected: It will transmit on the operating band.

Busy: It will transmit on the band last talking used.

FM Monitor

To press Menu->Radio Set->FM Monitor to enable or disable FM Monitor.

Enable: Signal receiving when FM radio is on.

Disable: No signal when FM radio is on.

Battery Save

To press Menu->Radio Set->Battery Save to choose off, 1:1, 1:2, 1:3, 1:4, 1:5, or 1:6.

The former one is the proportion for working time and latter one is the one for standby time, the higer proportion for standby time, the higher will be battery use.

Scan Mode

To press Menu->Radio Set-> Scan Mode to enable or disable TO, CO or SE..

ANI

To press Menu->Radio Set->ANI to enable or disable ANI.

Keypad Lock

To press Menu->Radio Set-> Power display to select Disable, Manual or Auto.

Through menu selection Go to Menu->Radio Set->Keypad Lock and then select Disable or Manual or Auto.

Auto: The keypad will be locked automatically if no operation is made for the preset time period.

Manual: The keypad will not be locked automatically. However, you can lock or unlock the keypad via the key combination or **Keypad Lock** key mentioned above.
Disable: The keypad lock function is unavailable no matter which keys you press.

Power Display

To press Menu->Radio Set-> Power display to select OFF, Voltage or Notify. The notify information can be set via programming software.

Language

To set the language in which all interface information is displayed. At the moment, this radio only supports two languages: Simplified Chinese and English.

Device Info

With this option, you can view the basic information of your radio, including serial number, radio model, frequency range.

VFO Mode

This model is only available in analog type mode or mixer type.

Offset

You can choose desred offset frequency by press [ ] or input by keypad directly,

Shif

You can set shif direction.

Step

The available values are from 5Khz, 6.25Khz, 10.0Khz, 12.5Khz, 25Khz, 50Khz, and 100Khz.

VFO Scan

There are four scan range available:
1. ± 1MHz: scan in the frequency range 1MHz plus or minus to current frequency.
2. ± 2MHz: scan in the frequency range 2MHz plus or minus to current frequency.
3. ± 5MHz: scan in the frequency range 5MHz plus or minus to current frequency.
4. Band: scan in all frequency range.

Accessories

To press Menu to select Accessories

GPS

You can get information of this radio, such as longitude, latitude and altitude, and time zone.

GPS text(Only in Digital type)

If you buy GPS version, you can send GPS information to desired contact.
1. select GPS information, press [ ] to enter 'contact list';
2. press [ ] to select desired contact;
3. press [ ] to send this GPS information to this contact.

Functions and Operations

Home Screen

The feature allows you to quickly return to the previous menu or the home screen.

Operation: In the editing screen, press the programmed Home Screen key, and the radio exits the screen and returns to the previous menu immediately; in other screens, press the key, and the radio returns to the home screen immediately.

Scan

The feature "Scan" allows you to listen to communication activities on other channels so that you can keep a close track of your team members.

Operation:

1. You can scan both frequency and channel under VFO model or CH mode.
2. To assign "Scan" to one of programmable key via programming sofware
3. To enable the feaction to each channel, you can set "Scan Add" by programming software, you also can select "Enable" from the menu "SCAN"
   Press programmable key assigned as "Scan" to enter "SCAN", during scan, press [icon] to change scan direction.
4. When activities are detected on a chennel, the radio will stay on the channel to receive curent activities.
5. when you set "Disable" to one chanel, which won't be scanned during scanning.
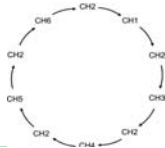
6. when one channel set as priority by programming software, this channel will be scanned after each channel cyclically,like CH2 in the photo.
7. Three options for the scan mode are available:

TO: In this mode, the scanner will halt on a signal it encounters, and will hold there for some time. If you do not take action to disable the scanner within the time period, the scanner will resume even if the stations are still active.

CO: In this mode, the scanner will halt on a signal it encounters, and will hold there if the stations are still active. And after the carrier has dropped, the scanner will resume.

SE: In this mode, the scanner will halt on a singnal it encounter, it will not restart automatically; you must manually re-initiate scanning if you wish to resume.

Monitor [icon]

To adjust match conditions for signal receiving, you can enable the feature "Monitor".

Operation:

- Press the programmed Monitor key to enable the feature, and the radio displays icon[icon].
  To disable the feature, press this key again.
- Hold down the programmed **Monitor Momentary** key to enable the feature, and the radio displays icon[icon].
  To disable the feature, release this key.

Time-out Timer (TOT)

The purpose of TOT is to prevent any user from occupying a channel for an extended period.

If the preset time expires, the radio will automatically terminate transmission and keep bee-ping. To stop beeping, please release the **PTT** key. You must wait for a certain time period (preset by your dealer) before you can press and hold down the **PTT** key to transmit again. If the pre-alert function is set by your dealer, your radio will alert you to the TOT expiration in advance.
Note: This feature is null in Emergency mode.

Squelch Off

If the feature "Squelch Off" is enabled, your radioís speaker will keep unmuted no matter whether carrier is present.

Operation:
- Press the programmed **Squelch Off** key to enable the feature. Then you can hear back-ground noise. To disable the feature, press this key again.
- Press the programmed Squelch Off Momentary key to enable the feature. Then you can hear background noise. To disable the feature, release this key.

Busy Channel Lockout

If enabled via the programming software, this feature can prevent your radio interfering with other transmitting terminals on the same channel. If you hold down the PTT key while the channel is in use, your radio will keep beeping and display text information "Channel Busy", alerting you to transmission prohibition. To stop beeping, please release the PTT key. When the channel is free, you can press and hold down the PTT key to transmit.

Emergency

In case of an emergency, you can use the feature to ask for help from your companion or control center. The Emergency process has the highest priority. You can make emergency operation even when your radio is transmitting or receiving.
To enable the feature on a channel, an emergency system must be assigned to the channel via the programming software. In addition, the Emergency type and Emergency mode are settable via the programming software.

Emergency Type
For each Emergency mode, there are four Emergency types available. You can select one of them via your dealer:

Emergency Type	Description
Siren Only	In Emergency mode, the radio will sound shrill alarm tone and disp-lay the icon .
Regular	In Emergency mode, the radio will give audible and visible indication.
Silent	In Emergency mode, the radio won't give any audible or visible indic-ation.
Silent with Voice	In Emergency mode, the radio wonít give any audible or visible indi-cation, but will receive voice ACK from the companion or control ce-nter automatically.

Remote kill/remote stun

If radio receive Remote kill code or remote stun code, the radio will be killed or stun, at this time, radio cannot transmit or receive. If stun, radio can be activated using activated code, if killed, radio have to be activated by programming software.

FM radio

1. Under standby mode, press OK/Menu Key + to enter FM radio.
2. Press OK/Menu Key + to store or delete the channel, press OK/Menu key to store, or press Back to delate channel. The maximum channle you can store is 30.
3. Press OK/Menu Key + to exchange between VFO mode and MR mode.
4. Press to enter scan mode, and radio wil stay in available FM frequency.

Shortcut operation

Under standby mode, you can press press some keys to enter shortcut operation:

Key	Functions	Availability		
		CH	MR	VFO
+	Channel stored and deleted	√	√	√
Long press	Keylock lock/unlock	√	√	√
+	FM radio	√	√	√

Reset

Press + to turn on the radio, choose menu 1 to enter Momery Reset, then press to confirm.

Wire colne

Prepare 2pcs DM-UVF10, 1pc specific clone cable, the deputy radio normally power on and press + to turn on the master radio, choose menu 2 to enter Clone, LCD display "CLONE"

Aging

Press + to turn on the radio, choose menu 3 to enter Radio Test till power off.

Signaling and DPMR

Signaling and DPMR

1. DTMF

If you want to use PTT ID, emergency alert,selective call and remote kill, stun, please program signaling as DTMF.

Auto Dialing

In analog type, under standby mode, enter menu to select 'Signaling', then select 'DTMF', press PTT to transmit selective ID after you select desired contact.

Manual dialing

In analog type, under standby mode, press ⬆# to enter Dial interface,then input DTMF ID, press PTT to transmit selective ID.

2. 2 Tone

2 Tone only can be used to selective call.

Enter menu to select 'signaling', then select '2 Tone', press PTT to transmit selective ID after you choose desired contact.

3. 5 Tone

If you want to use PTT ID, emergency alert,selective call, remote kill, stun, and data transmission, please program signaling as 5 tone.

Enter menu to select 'signaling', then select '5 Tone', press PTT to transmit selective ID after you choose desired contact.

4. Digital ID

If you want to use emergency alert,selective call,group call,all call,and remote kill, stun, please program signaling as digital ID.
Enter menu to select 'signaling', then select '5 Tone', press PTT to transmit selective ID after you choose desired contact.

Enter 'contacct' to select 'contact list', press PTT to relize private call/group call/all call after you choose desired contact.

Manual dial

In digital type, under standby mode, press ▢ to enter Dial interface,then input digital ID, press PTT to relize private call/group call after you choose desired contact.

Troubleshooting

Care and Cleaning

http://www.tyt888.com

Troubleshooting

Phenomena	Analysis	Solution
The equipment can not be powered on.	The battery may be improperly installed.	Remove the battery and attach it again.
	The battery may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirtied or damaged battery contacts.	Clean the battery contacts. If the problem can not be solved, contact your dealer or authorized service center for inspection and repair.
During receivingsignals, the voice is weak, discontinuous or totally inactive.	The battery strength may be too low.	Recharge or replace the battery.
	The volume may be set to a low level.	Increase the volume.
	The antenna may get loose or may be improperly installed.	Power off the radio, and re-install the antenna.
	The speaker may be blocked or damaged.	Clean surface of the speaker. If the problem can not be solved, contact your dealer or authorized service center for inspection and repair.

You can not communicate with other members.	The frequency or signaling may be inconsistent with that of other members.	Set your TX/RX frequency and signaling to the same as that of other members.
	The channel type (digital/analog) may be set inconsistently.	Make sure all members are on the same digital/ analog channel.
	You may be too far away from the group members.	Move towards other members.
Irrelevant communications or noises are heard on the channel.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio may not be set with any signaling.	Set signaling for all member radios to avoid interference at the same frequency.
The noise is too loud.	You may be too far away from other members.	Move towards other members.
	You may be at an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.	Move to an open and flat area, and restart the radio.
	You may suffer from external disturbance (such as electromagnetic interference).	Stay away from equipment that may causeStay away from equipment that may cause interference.

If the above solutions can not fix your problems, or you may have some other troubles, please contact us or your local dealer for more technical support.

Care and Cleaning

To guarantee optimal performance as well as a long service life of your radio, please follow the tips below.

◗ Radio Care

Do not pierce or scrape the radio with any edged instruments or hard objects.
Keep the radio far away from substances that can corrode the electronic circuit.
Do not hold the radio by its antenna or headset cable directly.
Attach the accessory jack cover when the radio is not in use.

◗ Radio Cleaning

Clean up the dust and fine particles on the radio surface and charging piece with a clean and dry lint-free cloth or a brush regularly.
Use neutral cleanser and a non-woven fabric to clean the keys, control knobs and front case after long-time use. Do not use chemical preparations such as stain removers, alcohol, sprays or oil preparations, so as to avoid surface case damage. Make sure the radio is completely dry before use.

Caution: Power off the radio and remove the battery before cleaning.

Appendix: Input Method

You can enter aliases, numbers or messages using the keypad. This radio supports the following input methods: Chinese Pinyin (simplified), English and Number.

◢ Chinese Pinyin (Simplified)
Operation:
1. Press ⬛ to switch to Chinese Pinyin mode;
2. Enter the pinyin through alphanumeric keys; then a list of possible combinations and corresponding characters will appear;
3. Use the **Up/Down** key to choose the right pinyin;
4. Press the **OK** key to highlight the characters, and choose the right character using the **Up/Down** key;
5. Press the **OK** key to enter the selected character. You can repeat the above steps to continue.

◢ English
Operation:
1. Press ⬛ to switch to uppercase English or lowercase English mode;
2. Enter the English letters through alphanumeric keys; then a list of possible letters will appear;
3. Use the **Up/Down** key to choose the right letter;
4. Press the **OK** key to enter the selected letter. You can repeat the above steps to continue.

◢ Number
Operation:
1. Press ⬛ to switch to Number mode;
2. Enter the numbers through alphanumeric keys ⬛ to ⬛ .

Specifications

Guarantee

Specificitions

General

Frequency range	136-174MHz 400-480MHz
Frequency stability	±2.5ppm
Operating voltage	DC7.4V
Channel capacity	128x2
Antenna	High gain antenna
Antenna Impedance	50Ω
Working mode	Simplex
Dimensions (W x H x D)	106x61x33 mm
Battery	1800mAh (Poly Li-ion Battery)

Transmitter

RF output power	5W(H)　　0.5W(L)
Modulation type	11KΦF3E
Max Fr. deviation	<5KHz / <2.5KHz
Adjacent Ch. power	≥65dB / ≥60dB
Spurious radiation	<7μW
Pre-emphasis characteristics	6dB
TX current	≤1.6A(5W)
CTCSS/DCS deviation	0.5KHz ± 0.1KHz, 0.3KHz ± 0.1KHz
Intermediation sensitivity	1-10mV
Intermediation distortion	<5%
4FSK distortion	<3%

Receiver

Receiving sensitivity	-122dBm (12dB SINAD)
Audio power	1W
Audio distortion	≤5%
Block	≥85dB
Inter-modulation	≥60dB ≥55dB
Adjacent Ch. Selectivity	≥65dB ≥60dB
Spurious Rejection	≥65dB

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.

SAFETYTRAININGINFORMATION

Your TYT ELECTRONICS CO., LTD radio generators RF electromagnetic energy during transmit mode.This radio is designed for and classified as"Occupational Use Only",meaning it must be used only during the course of employment by individuals aware of the hazards,and the ways To Minimize Such hazards. This radio is NOT intended for use by the"General Population" in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for"Occupational Use Only".Inaddition, your TYT ELECTRONICS CO., LTD radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

◆ FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.

◆ American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

◆ American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields– RF and Microwave.

◆ The following accessories are authorized for use with this product. Use of accessories other than those (listed in the instruction) specified may result in RF exposure levels exceed the FCC requirements for wireless RF exposure.

To ensure you're your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to as-sure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, TYT ELECTRONICS CO., LTD radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Attention:

This radio complieswith IEEE and ICNIRP exposure limits for occupational/controlled RF exposure emvironment at operating duty factors of up to 50% and is authorized by the FCC for occupational use only. An appropriate warning lable is affixed to all units.

In order to comply with RF exposure requirements, a minimum distance of 2.5cm must be maintained when held-to-face, and body-worn operations are restricted to the approved original acessories (belt clip). Do not use this device when antenna shows obvious damages