BAOFENG®

# Amateur Radio

# UV-5G Mini




# USER'S MANUAL

# PREFACE

Thank you for purchasing this product. which is a dual band/dual display/dual watch. This easy-to-use radio will deliver you secure, instant and reliable communications at peak efficiency. Please read this manual carefully before use. The information presented herein will help you to derive maximum performance from your radio.



**WARNING!** European Users should note that operation of this unit in Transmit mode requires the operator to have a valid Amateur Radio License from their respective Countries Amateur Radio Licensing Authority for the Frequencies and Transmitter Power levels that this Radio transmits on. Failure to comply may be unlawful and liable for prosecution. At this subject, refer to the "EU" specification guide 2014/53/EU.



**ATTENTION!** When programming the radio, start by reading the factory software data, and then rewrite this data with your frequency etc., to a new saved code plug, otherwise errors may occur. You can use the programming cable with a PC to program the authorized frequency, bandwidth, power, etc. your programming must comply with your FCC (or EU other country) license certification.



**ATTENTION!** *Before using this product, read the RF Energy Exposure and Product Safety Guide that ship with the radio which contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulation.*



**PMR446, FRS, GMRS, MURS**

You may be tempted to use PMR446 (in Europe) or FRS, GMRS, MURS (in the USA) frequencies. Do note however that there are restrictions on these bands that make this transceiver illegal for use.

## Getting Started

### Regulations and Safety Warnings

#### ■EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC (2014/53/EU). All applicable EU regulations are regarded (2006/66/EC, 2011/65/EU, 2012/19/EU). Please note that the above information is applicable to EU countries only.

#### ■FCC Part15/IC Compliance

#### FCC Part 15 Compliance

This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Avis de conformité à la FCC : Ce dispositif a été testé et s'avère conforme à l'article 15 des règlements de la Commission fédérale des communications (FCC). Ce dispositif est soumis aux conditions suivantes: 1) Ce dispositif ne doit pas causer d'interférences nuisibles et; 2) Il doit pouvoir supporter les parasites qu'il reçoit, incluant les parasites pouvant nuire à son fonctionnement.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

#### IC Compliance

This device complies with Industry Canada license-exempt RSS standard(s).Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including

interference that may cause undesired operation of the device.
Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
Cet appareil est conforme aux normes RSS exemptes de licences d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles et (2), il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.
Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

## ■FCC RF Exposure

**WARNING!** It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following:

Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result.
Please contact your local dealer for a replacement antenna.

## Hand-Held Operation (Held-to-Face)

This device was evaluated for typical hand-held (held-to-face) operations with a 1 inch spacing from the front of the radio. For hand-held operation, the radio should be held 1 inch from the user's face in order to comply with FCC RF exposure requirements.

## Body-Worn Operation

This device was evaluated for body-worn operations with the supplied belt-clip accessory. (All necessary accessories are included in the package; any additional or optional accessories are not required for compliance with the guidelines.)
Third party accessories (unless approved by the manufacturer) should be avoided as these might not comply with FCC RF exposure guidelines.

For body worn operation, this device has been tested and meets the Industry Canada RF exposure guidelines when used with our company accessories supplied or designated for this product. Use of other accessories may not ensure compliance with Industry Canada RF exposure guidelines.
Fonctionnement de l'appareil, lorsque porté sur le corps. Cet appareil a été testé et s'est avéré conforme aux normes d'Industrie Canada et approuvé pour le port sur le corps à l'aide des accessoires notre société inclus et conçus pour cet appareil. L'utilisation d'accessoires ne respectant pas les exigences d'exposition RF d'Industrie Canada doit être évitée.

## ■Precautions for Portable Terminals

### Operating Prohibitions

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

1. Do not operate the product in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials. In such location, only an approved Ex-protection model is allowed for use, but any attempt to assemble or disassemble it is strictly prohibited.
2. Do not operate the product near or in any blasting area.
3. Do not operate the product near any medical or electronic equipment that is vulnerable to RF signals.
4. Do not hold the product while driving.
5. Do not operate the product in any area where use of wireless communication equipment is completely prohibited.

#### Important Tips

To help you make better use of the product, be sure to observe the following instructions:

1. Do not use any unauthorized or damaged accessory.
2. Keep the product at least 2.5 centimeters away from your body during transmission.
3. Do not keep the product receiving at high volume for a long time.
4. For vehicles with an air bag, do not place the product in the area over the air bag or in the air bag deployment area.
5. Keep the product and its accessories out of reach of children and pets.

6. Please operate the product within the specified temperature range.
7. Continuous transmission for a long time may lead to heat accumulation within the product. In this case, please keep it at a proper location for cooling.
8. Handle the product with care.
9. Do not disassemble, modify or repair the product and its accessories without authorization.

## ■Precautions for Batteries

### Charging Prohibitions

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

1. Do not charge or replace your battery in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials.
2. Do not charge your battery that is wet. Please dry it with a soft and clean cloth prior to charge.
3. Do not charge your battery suffering deformation, leakage and overheat.
4. Do not charge your battery with an unauthorized charger.
5. Do not charge your battery in a location where strong radiation is present.
6. Overcharge shall always be prohibited for it may shorten the life of your battery.

### Maintenance Instructions

To help your battery work normally or prolong its life, be sure to observe the following instructions:

1. Accumulated dust on charging connector may affect normal charging. Please use a clean and dry cloth to wipe it on a regular basis.
2. It is recommended to charge the battery under 5 ~40 . Violation of the said limit may cause battery life reduction or even battery leakage.
3. To charge a battery attached to the product, turn it off to ensure a full charge.
4. Do not remove the battery or unplug the power cord during charging to ensure a smooth charging process.

5. Do not dispose of the battery in fire.
6. Do not expose the battery to direct sunlight for a long time nor place it close to other heating sources.
7. Do not squeeze and penetrate the battery, nor remove its housing.

### Transportation Instructions

1. Damaged batteries must not be transported.
2. To avoid short circuit, separate the battery from metal pars or from each other if two or more batteries are transported in one packaging.
3. The radio must be switched off and secured against switch-on, if the battery is attached.

The content of the shipment must be declared in the shipping documents and by a Battery Shipping Label on the packaging. Contact your hauler for the local regulations and further information.

## Maintenance

Your Two Way Radio is an electronic product of exact design and should be treated with care.
The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years.

- Do not attempt to open the radio for any reason! The radio's precision mechanics and electronics require experience and specialized equipment; for the same reason, the radio should under no circumstances be realigned as it has already been calibrated for maximum performance. Unauthorized opening of the transceiver will void the warranty.
- Do not store the Radio under the sunshine or in hot areas.
- High temperatures can shorten the life of electronic devices, and warp or melt certain plastics.
- Do not store the radio in dusty and dirty areas.
- Keep the Radio dry. Rainwater or damp will corrode electronic circuits.
- If it appears that the Radio diffuses peculiar smell or smoke, please shut off its power immediately and take off the charger or battery from the radio.
- Do not transmit without antenna.

## Functional features

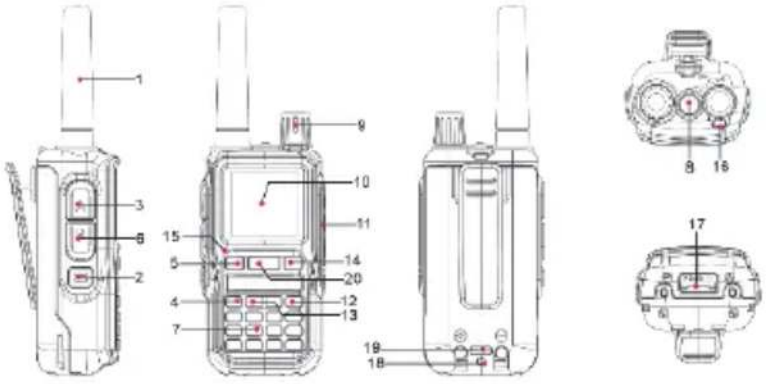
-6 band scan receiver, FM78-108MHz; AM108-136MHz; VHF136-174MHz; UHF400-520MHz,350-390MHz
-Transmit frequency GMRS
-5W/0.5W RF output, dual PTT transmitter
-Wireless read/write frequency
-1.44" TFT large screen, full keyboard, full open menu operation, local channel storage and deletion
-Full keyboard manual frequency input, 999 channel memory
-One-click frequency pairing, easy pairing and grouping.
-Relay function settings: frequency difference, frequency difference direction, relay activation audio settings
-Alarm function (three types of alarm settings), to protect your security
-Built-in input method, supports local editing of channel name, receiving frequency, transmitting frequency
-DTMF encoding and decoding function, 20 DTMF calls
-Frequency hopping function
-Side button function customization: radio, scan, sweep, voice control, flashlight, alarm
-FM radio function (receive frequency 78~108MHz)
-Automatic or manual keypad lock, backlight selection
-Support Type-C charge, more convenient range

## Items in the Package

| Item | Quantity (PCS) | Item | Quantity (PCS) |
|---|---|---|---|
| Radio | 1 | Operation Manual | 1 |
| Battery | 1 | | |
| Antenna | 1 | | |
| Belt Clip | 1 | | |

*Charger and power adapter are subject to the final configuration of the dealer. Please understand that the charging instructions in this manual may not be appropriate if Type-C charging method.

## Product Overview



1.Antenne
2.SK1-Customized Function Keys/Monitor button
3.PTT-A Button
4.OK/Menu button
5.V/M-VFO/MR
6.PTT-B Button
7.Numeric Keypad
8.Flashlight
9.Volume/Power Knob
10.Screen
11.Accessory Port
12.Cancel/Back button
13.▲Up button/▼Down button
14.A/B
15.Microphone
16.LED Indicator
17.Battery Latch
18.Type-C Charging indicator light
19.Type-C Charging Port
20.Search/Flashlight button

## Side Key [SK1] Customization Function

The function of the "SideKey SK1" allows the setting of shortcut functions via the CPS programming software or via the menu - Radio settings - "SideKey SK1".

-FM Radio: Quickly turns the radio function on or off.

-Scan: Quickly turns the scanning function on or off. The scan function can also be turned on or off by long pressing the # key.

-SEARCH: Quickly turn on or off the one-touch sweep function.

-VOX: Quickly turn on or off the VOX function.

-LAMP: Quickly turn on or off the flashlight.

-SOS: Quickly turn on or off the alarm function.

## LCD Display

| Icon | Description |
|---|---|
| | |
| H/L | Transmit power level indicator, According to Power |
| | Make sure you can hear the DTMF side tone from the radio speaker, set to DT-ST, ANI-ST, DT+ANI. |
| D | DCS enabled |

| | |
|---|---|
| C | CTCSS enabled |
| + | Enables access of repeaters in VFO/Frequency Mode. TX will be shifted higher in frequency than RX. |
| - | Enables access of repeaters in VFO/Frequency Mode. TX will be shifted lower in frequency than RX |
| D | Dual watch enabled |
| | Keypad lock enabled |
| V | VOX enabled |
| | The confidential calling feature is activated |
| N | Narrowband enabled |
| | Battery level indicator |
| R | Reverse function enabled |
| T | The terminal is switched from transit mode to pass-through mode. |
| SCR | The voice scramble function has been activated |

## Before Use

When using the terminal for the first time, a low battery warning may occur. It is recommended to turn off the radio during charging. The battery's LEDs provide an indication of the current state of charge, as shown in the table below.

| Indicator light | Charging status |
|---|---|
| Red light is always on | Charging |
| Green light is always on | Charging complete |

### Attaching the Antenna

Turn the antenna clockwise until it is tight. To remove the antenna, turn it counterclockwise.

**CAUTION**

Do not hold the radio antenna in your hand, as this will reduce the performance of the radio and the life of the antenna.
Do not shake the radio with the top of the antenna in your hand, as this will degrade the performance and life of the radio antenna.

### Attaching the Belt Clip

1. Use a Phillips screwdriver to turn the screw on the back of the radio counter-clockwise and remove it.
2. Align the screw holes on the belt clip with the screw holes on the back of the radio. Align the screw holes on the back of the radio.
3. Put the screws back in place and use a Phillips screwdriver to turn the screws clockwise. Turn the screwdriver clockwise until it is hand-tight.

## Basic operations

### Turning your Radio On and Off

To turn your radio ON, turn the **[Volume/Power]** rotaryknob clockwise.
To turn your radio OFF, turn the **[Volume/Power]** rotary knob counterclockwise.

### Setting the Volume

Increase volume by turning the **[Volume/Power]** rotary knob clockwise.
To decrease volume, turn the **[Volume/Power]** rotary knob counterclockwise.
Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

### Locking or Unlocking Keypad

To avoid accidentally changing radio settings:

1. Press and hold the [ ] key to lock the keypad until the screen displays the " " icon.
2. In lock mode, you can turn the intercom on and off, adjust the volume, receive, transmit, send call tones, send emergency alerts, and listen to channels. All other functions remain locked.

3. In lock mode, press and hold the [ ] key to unlock the keypad until the " " icon is no longer displayed to unlock the radio.

## Keypad Entry

You can enter radio aliases, channel aliases, numbers, etc. using the radio's numeric keypad.

1. To switch between input methods, press [# ] key.
2. Press 1 to enter a special character (except in numeric input mode, where the number 1 is entered)
3. Press 0 to enter a space (except in the numeric input mode, in which special characters are entered).

## Select a Channel

The channel is the channel through which the signal is transmitted. Press the **[V/M]** button to toggle between VFO and channel mode to select channel mode.

Press the ▲/▼buttons or the rotary encoder to select the desired chan nel.

Enter the channel number using the keypad. For example, to switch to channel 64, enter 064 totaling 3 digits to switch to channel 64.

## Channel Memory

In Frequency and in Standby mode, you can store frequencies and parameters.

Press **[MENU] [3] [MENU] [1] [5]**, the screen will display "**MEMCH**".

Press **[MENU]** to enter the function. Press the ▲/▼ buttons to select the channel, then press [**MENU]** to store it. A sound tone will confirm that the storing succeeded. Press **[EXIT]** to exit to return to standby mode.

***NOTES***

*If you want to set CTCSS tones, DCS codes or the frequency offset, you have to do it before storing the channel. Stored channels are displayed as CH-, other channels have no CH- display.*

## Delete a channel (DEL-CH)

VFO mode and in standby mode, press **[MENU] [3] [MENU] [1] [6]**,the screen will display "**DELCH**".

Press **[MENU]** to enter the function. Press the ▲/▼buttons or rotate the encoder to select the channel you want to delete, then

press **[MENU]** to confirm.
To return to the standby mode press **[EXIT]** key.
***NOTE: Channel 1 cannot be deleted.***

## Main Band/Sub Band Switch

In standby mode, press the **[A/B]** key to toggle between the A and B bands to switch between the main/sub bands.
The main band is the highlighted band. The darker displayed band is the sub-band.

## VFO/Channel Switch

Press the **[V/M]** button to switch between VFO and channel display.
**VFO mode will display the 'VFO' icon. MR mode will display the channel serial number.**

## Setting the VFO Frequency

Turn the radio to VFO mode, then press the **[A/B]** key to switch to the main channel.
Operation 1: Input the VFO frequency directly with the keypad.
Operation 2: Press the ▲/▼button or rotary encoder to adjust the VFO frequency in the set frequency step.

## Call Service

All radios in the group must be set to the same channel and sub-code to communicate.
To ensure optimal reception volume, keep the distance between the microphone and your mouth at 2.5 cm to 5 cm when transmitting.
**-Initiate a call**: Select a channel, press and hold the **[PTT-A]** key, the radio transmits on segment A (upper screen) and the red indicator light is always on. Then speak into the microphone with normal voice tone.
Press and hold the **[PTT-B]** key, the radio transmits on the B segment (lower screen), and the red indicator light is always on. Then speak into the microphone in a normal voice tone.
-**Receive a call**: After releasing the **[PTT]** key, the radio is in a receivable state. When receiving a call, the green indicator light is always on.

***Note: In standby, press and hold the 8 key to toggle the transmission power.***

## Emergency Alarm

Emergency alarm means that the terminal can initiate an emergency alarm to seek help from the companion or the control center when it encounters an emergency.

In standby mode, press the preset **[SOS]** key to enable or disable the emergency alarm function.

## Flashlight

In standby mode, press the preset key to turn the flashlight on or off.

## FM Radio Function

Set the **[SK1]** key to the radio function via Menu >> Radio Set >> Press SK1.

Turn on the radio and press the SK1 key **[FM Radio]** to enter radio mode and the screen displays the tuning frequency. The following operations can be performed:

-Press ▲/▼key to search for radio channels at the preset step frequency.

-Press the **[#↑ ]** key to search for radio channels automatically, the screen displays '**SEEK...**'

-Press **[EXIT]** key to switch frequency band between 65.0/75.0MHz.

-Press SK1 key **[FM Radio]** to exit radio mode.

## Monitor

Press and hold the pre-programmed **[Monitor]** key to enter monitor mode and listen for weak signals on the current channel.

You can also listen to the volume level of the radio when you are not receiving. This allows you toadjust the volume, if necessary.

Release the **[Monitor]** key to exit the monitor mode.

## Frequency Search

Press the pre-programmed **[SEARCH]** key or press and hold key, the radio enters into frequency search state, the screen displays “SEARCH...”. Press **[#↑ ]** key to switch the searching band, such as VHF/UHF, etc. The frequency and CTCSS/DCS code

will be displayed after searching is completed.
Press **[MENU]** to save the channel.

## Reverse Frequency Function

Short press the **[ ]** key in relay mode can invert the receive frequency and transmit frequency, the screen shows '**R**' icon.
-This function is often used in repeater channels, and is effective when there is a frequency difference between the receive frequency and the transmit frequency.

## Talk Around Function

In repeater mode, press **[ ]** to switch between Talkaround Mode and Repeater Mode, the screen displays between '**T**' icon and '**R**' icon.
-In Talkaround mode, the receive frequency is equal to the transmit frequency.

## Repeater Activation Tone

Turn on the radio, press and hold the **[PTT]** key, then press the **[SK1]** to transmit 1750Hz audio to activate a repeater in hibernation.

## Voice-activated transmit (VOX)

Enable VOX function, you don't need to press **PTT** key to transmit, through the voice of normal speech automatically transmit, after the speech stops, it will stop transmitting automatically and wait for receiving. VOX function is enabled:
(1) Standby status, press **[MENU][2][MENU][4]** to enter Vox Switch;
(2) Press **[MENU][2][MENU][5]** to enter Vox Level, press ▲/▼to select VOX level (level 1-9);
-Open VOX,select VOX level 1 level-9, the smaller the value, the higher the sensitivity, the '**V**' icon is displayed at the top of the screen. Default is off.
-Turn off VOX, select OFF OFF, V icon disappears.
(3) Press **[MENU]** key to save the setting and return to the upper menu.
-Repeat the above operation and select OFF to turn off the VOX function.

## Dual Watch

When in Dual watch mode, the radio can receive the frequency set for channel A or B. Operation is as follows:

1. Press **[MENU] [2]** to enter Radio Set.
2. Press **[MENU] +** ▲/▼to select "**15 Dual Watch**".
3. Press **[MENU]** key to enter Dual Watch Setting, press ▲ /▼key to select "On".
4. Press **[MENU]** key to save and return to the upper menu. The dual watch function will be turned on, and the icon **'D'** will be displayed on the first line of the screen.

-Repeat the above operation and select "Off", the Dual Watch function is turned off and the icon **'D'** disappears from the first line of the screen. The sub-band displays the icon.

## Stopwatch Function

Press and hold the **[MENU]** key to enable the stopwatch function. The stopwatch timing operates as follows:

-Press the **[MENU]** key to start the stopwatch.

-Press the **[MENU]** key again to stop the stopwatch.

-Press the **[EXIT]** key to exit the stopwatch function.

## Weather Radio/Scan Weather Channel

Your radio has a NOAA Weather Radio function, to enable the user to receive weather reports from designated NOAA stations.

Your radio also has a NOAA Weather Scan function, to enablethe user to scan all 10 channels of the NOAA Weather Radio.

(1) To turn the NOAA Weather Scan on, press and hold the **[0]** key for 3 seconds , icon appears. The radio will go to Weather band mode.

(2) Press and hold the [#↑ ] key for 3 seconds to start automatic scanning of all 10 channels and stop on active channels. Pressing and holding the **[#↑** ] key for 3 seconds during a NOAA weather scan will stop the scan.

(3) After stopping NOAA weather scan, it is allowed to manually select the weather channel by press the▲ or ▼key.

(4) To exit the Weather Radio broadcast mode, press the key or **[PTT]** key.

**Weather channel frequencies and names**

| Channel Number | RX Frequency MHz | Channel Number | RX Frequency MHz |
|---|---|---|---|
| CH-01 | 162.550 | CH-06 | 162.500 |
| CH-02 | 162.400 | CH-07 | 162.525 |
| CH-03 | 162.475 | CH-08 | 161.650 |
| CH-04 | 162.425 | CH-09 | 161.775 |
| CH-05 | 162.450 | CH-10 | 163.275 |

*NOTE: Weather Channels Wx 1 Thru 10, Receive-only channels for NOAA and Canadian weather broadcasts. You cannot transmit on these channels.*

# Use of menu functions

## Basic use

Using the menu with arrow keys

1. Press the **[MENU]** button to enter the menu.
2. Use the ▼/▲buttons or the encoder to navigate between menu items.
3. Once you find the desired menu item, press **[MENU]** again to select that menu item.
4. Use the ▼/▲buttons or the encoder to select the desired parameter.
5. When you've selected the parameter you want to set for a given menu item;
   A) To confirm your selection, press **[MENU]** and it will save your setting and bring you back to the main menu.
   B) To cancel your changes, press **[EXIT]** and it will reset that menu item and bring you out of the menu entirely.
6. To exit out of the menu at any time, press the **[EXIT]**button.

## Using the menu with short-cuts

1. Press the **[MENU]** button to enter the menu.
2. Use the numerical keypad to enter the number of the menu item.

3. To enter the menu item, press the **[MENU]** button.
4. For entering the desired parameter you have two options:
   A) Use the arrow buttons as we did in the previous section; or
   B) Use the numerical keypad to enter the numerical short-cut code.
5. And just as in the previous section;
   A) To confirm your selection, press **[MENU]** and it will save your setting and bring you back to the main menu.
   B) To cancel your changes, press **[EXIT]** and it will reset that menu item and bring you out of the menu entirely.
6. To exit out of the menu at any time, press the **[EXIT]** button.

## Wireless Program Radio

You can program the radio wirelessly. Before programming the radio wirelessly, you need to install the APP program. Download at scan




The radio operates as follows:

1.Press **[MENU]** + **[4]** to enter Wireless

2. Press **[MENU]** + ▲/▼to select "On";

The icon will be displayed on the first line of the screen.

**Download radio APP**

You can program the terminal through the radio APP. Download and install radio APP on your Android phone.

After the APP is opened, allow the Bluetooth of the cell phone and open the location function, select the walkie-talkie model 5G mini Series, connect the radio, click Walkie-talkie. prompt the connection success and return to the home page.

- **Read the radio data**: After finishing the frequency reading, click the program to enter the program details. In the program details interface you can program channel information, frequency mode, optional functions.
- **Save Profile**: The programmed profile allows you to save the profile as a new profile and name the new profile.
If you select Replace Program, click Replace Program and save.
- **Write data to radio**: click home page, select program, click 'Write' to enter write frequency, the radio will restart automatically when finish writing frequency.

## Technical Specifications

**General**

| | |
|---|---|
| Receiver Frequency | FM 76-108 MHz;<br>VHF 136-174MHz, UHF 400-520MHz, 350-390MHz |
| Transmission Frequency | GMRS |
| Channel Spacing | 25.0KHz(Wide)/12.5KHz(Narr) |
| Memory Channel | 999 Groups |
| Operation Voltage | DC 7.4 V ±10% |
| Dimensions | 108mm×52mm×37mm (No antenna) |
| Weight | 200g (Battery pack included) |
| Transmission current | ≤1600mA |
| Receive Sensitivity | 0.25μV (12dB SINAD) |
| Rated Audio Power Output | 1W @16 ohms |
| Receive current | ≤380mA |
| Connection for accessories | 2 pin Kenwood jack |
| Antenna impedance | 50 Ohm |

**NOTE: All specifications may be modified without prior notice or liability. Thank you**

## Shortcut Menu operations

| Menu Name | | Setting Description | | |
|---|---|---|---|---|
| 1 SCAN | | 1 Freq Ranger NNNNnnn | | Input VFO range lower and upper frequency |
| | | 2 Scan Mode | Time | Time Operation - scanning will resume after a fixed time has passed |
| | | | Carrier | Carrier Operation -scanning will resume after the signal disappears |
| | | | Search | Search Operation -scanning will not resume |
| | | 3 Scan Memory | ALL | RX_TX are saved (default is all, encoding and decoding are the same) |
| | | | DECODER | Save only in Transmitter CTCSS/DCS |
| | | | ENCODER | Save only in Receiver CTCSS/DCS |
| 2 | Radio Setting | 1 Step 2.5-100K | | Selects the amount of frequency change in VFO/Frequency mode when scanning or pressing the ▲ or ▼keys. |
| | | 2 Squelch | OFF,LEVEL1-LEVEL9 | Squelch silences the receiver when there is no signal. Setting the squelch to 0 will open up the squelch entirely. |
| | | 3 Power Save | OFF | Turn off radio sleep. The battery consumption is large, and the standby time may be shortened |
| | | | ON | Turn on radio sleep. Turning on is more power efficient, but you might miss the first few syllables before the RX turns on. |
| | | 4 VOX Switch | OFF | Turn off the radio VOX. |
| | | | ON | Turn on the radio VOX. |
| | | 5 VOX Level | LEVEL1-LEVEL9 | When enabled it is not necessary to push the **[PTT]** button on the transceiver. Adjust the gain level to an appropriate sensitivity to allow smooth transmission. |

| | | |
|---|---|---|
| 6 VOX Delay 0.5……2.0s | | When the VOX is enabled, set up the VOX delay to help to extend the transmission time to avoid stopping a transmission too early. 0.5s-2s, Step 0.1 second. a total of 16 times offered. |
| 7 TOT | OFF | Allow continuous launch, launch time is not limited |
| | 15;30;45…180 | Maximum allowed time for transmission while holding down the **PTT** key. |
| 8 TOA | OFF | Disable TOA function |
| | 1……10 | Activate TOA function. Range 0 – 10 seconds, Step 1 second. |
| 9 Voice | OFF | Disable voice prompts |
| | ON | Activate voice prompts |
| 10 Language | Chinese | Display menus and voice prompts in Chinese language |
| | English | Display menus and voice prompts in English language |
| 11 ROGER | OFF | Disable ROGER function. Release **PTT** key without ROGER audio. |
| | BEEP | Activate the ROGER function. Sends an end-of-transmission tone to indicate to other stations that the transmission has ended. |
| | TONE 1200 | Activates the ROGER function. Sends the DMC1200 transmission end tone to indicate to other stations that the transmission has ended. |
| 12 Beep | OFF | Disable key confirmation tone. |
| | ON | Activation key to confirm tone. Allows audible confirmation of a key press |
| 13 BackLight | ALWAYS ON | The backlight is always on. |
| | 5……20 | Set the backlight off time in no-operation delay time. 5-20, step value is 5. |
| 14 Power on | PICTURE | Show preset picture when radio is on |

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| Image | VOLTAGE | Display battery voltage when radio is on |
| 15 Dual Watch | OFF | Disable dual table, dual receive. |
| | ON | Monitor [A] and [B] at the same time. The display with the most recent activity ([A] or [B]) becomes the selected display. |
| 16 AutoLock | OFF | Disable automatic keypad lock. Allow manual keypad lock (press and hold the key to lock/unlock the keyboard) |
| | ON | When ON, the keypad will be locked if not used in 8 seconds. Pressing the key for 2 seconds will unlock the keypad. |
| 17 Alarm Mode | On Site | Sounds alarm through your radio speaker only |
| | Send Sound | Transmits a cycling tone over-the-air |
| | Send Code | Transmits '119' (911 in reverse) followed by the ANI code over-the-air |
| 18 Alarm Tone | OFF | The radio speaker blocks the alarm sound. |
| | ON | The radio speaker sounds an alarm |
| 19 ANI-Edit 100 | | View the ANI ID, and if necessary, will allow to change the ANI ID |
| 20 Display ANI | OFF | Disable the ANI code display function |
| | ON | Enable ANI code display |
| 21 DTMF-ST | OFF | No DTMF Side Tones are heard |
| | DT-ST | Side Tones are heard only from manually keyed DTMF codes |
| | ANI-ST | Side Tones are heard only from automatically keyed DTMF codes |
| | DT+ANI | All DTMF Side Tones are heard |
| 22 PTT-ID | OFF | No ID is sent. |
| | BOT | The selected S-CODE is sent at the beginning |
| | EOT | The selected S-CODE is sent at the ending |
| | BOTH | The selected S-CODE is sent at the beginning and ending |

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| | | 23 | PTT-DLY | 100-3000ms | Signal code sending delay. PTT-ID Delay (milliseconds) |
| | | 24 ALERT | | 1000Hz | The following configurations will transmit accordingly:<br>**PTT** + SK1 = Transmits 1000Hz Tone Burst |
| | | | | 1450Hz | **PTT** + SK1 = Transmits 1450Hz Tone Burst |
| | | | | 1750Hz | **PTT** + SK1 = Transmits 1750Hz Tone Burst |
| | | | | 2100Hz | **PTT** + SK1 = Transmits 2100Hz Tone Burst |
| | | 25 TAIL | | OFF | Disable Squelch Tail Elimination. |
| | | | | ON | Enable Squelch tail elimination. to prevent any squelch tails from being heard. |
| | | 26 Press SK1 | | FM Radio | FM Radio on/off |
| | | | | SCAN | SCA on/off |
| | | | | SEARCH | Search on/off |
| | | | | VOX | VOX on/off |
| | | | | LAMP | Flashlight on/off |
| | | | | SOS | SOS on/off |
| | | 27 Reset | | VFO MODE | Reset the radio's VFO menu to factory defaults (no reset for bank, scan settings) |
| | | | | RESET ALL | Resets the radio to factory defaults, with some exceptions. |
| 3 | Program Channel | 1 CH.NAME Channel 1 | | | View channel name, allows to rename the current channel. Press the key to switch the input method, allowing the input of letters, numbers and symbols. |
| | | 2 | RX Frequency | | View the current channel Receiver frequency. |
| | | 3 | TX Frequency | | View the current channel Transmitter frequency. |
| | | 4 Trans Power | | High | Selects between HIGH transmitter power when in VFO/Frequency mode. |
| | | | | Low | Selects between LOW transmitter power when in VFO/Frequency mode. |

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| 5 Bandwidth | Wide | Wideband (25 kHz bandwidth) |
| | Narrow | narrowband (12.5 kHz bandwidth) |
| 6 RX CTCSS OFF;67-254.1 | | Mutes the speaker of the transceiver in the absence of a specific and continuous sub-audible signal. If the station you are listening to does not transmit this specific and continuous signal, you will not hear anything. |
| 7 RX DCS OFF;023N-754I | | Mutes the speaker of the transceiver in the absence of a specific low-level digital signal. If the station you are listening to does not transmit this specific signal, you will not hear anything. |
| 8 TX CTCSS OFF;67-254 | | Transmits a specific and continuous sub audible signal to unlock the squelch of a distant receiver (usually a repeater). |
| 9 TX DCS OFF;023N-754I | | Transmits a specific low-level digital signal to unlock the squelch of a distant receiver (usually a repeater). |
| 10 Encryption | OFF | Disable encrypted mode, your conversations are not private. |
| | ON | Activating encryption mode ensures the privacy of your conversations.<br>To use the Encryption function, the other part of the radio must also have Encryption activated and must be tuned on the same DCS code. |
| 11 Signaling 1-20 | | Selects 1 of 20 DTMF codes. The DTMF codes are programmed with software and are up to 3 digits each. |
| 12 CH-MDF | NAME | MR/Channel mode is displayed in NAME format. Note: NAME allows CPS program or edit in the channel name（Munu 1） . |
| | FREQ | MR/Channel mode is displayed in frequency format. |
| | CH | MR/Channel mode is displayed in CH format. |
| 13 SP-Mute | QT | when radios is set in this mode, the monitor feature is activated only when the radio receives the correct CTCSS/DCS. |
| | QT+DTMF | with this option, the monitor is activated when the radio receives the correct CTCSS/DCS and the correct DTMF code. |

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| | | | | QT*DTMF | • QT*DTMF: the monitor is activated when the radio receives the correct CTCSS/DCS or the correct DTMF code. |
| | | 14 SCAN ADD | | OFF | Forbid the current channel to join the scan group. |
| | | | | ON | Add the current channel to the scan group. |
| | | 15 Busy Lockout | | OFF | The [**PTT**] button on the channel is always allowed. |
| | | | | ON | Disables the [**PTT**] button on a channel that is already in use. The transceiver will sound a beep tone and will not transmit if the [**PTT**] button is pressed when a channel is already in use. |
| | | *13 | OffSet | | Specifies the difference between the TX and RX frequencies |
| | | *14 Direction | | None | TX = RX (simplex). Disable access to repeaters in VFO/Frequency mode |
| | | | | Plus | Plus frequency shift direction. TX will be shifted higher in frequency than RX |
| | | | | Minus | Minus frequency shift direction. TX will be shifted lower in frequency than RX |
| | | 16 CH_Memory CH001-CH999 | | | This menu is used to either create new or modify existing channels (1 through 999) so that they can be accessed from MR/Channel Mode. |
| | | 17 CH_Delete CH001-CH999 | | | This menu is used to delete the programmed information from the specified channel (1 through 999) so that it can either be programmed again or be left empty. |
| 4 | Wireless CPS | 1 OFF | | | Turn off Wireless CPS and disable the Wireless programming function |
| | | 2 ON | Enable Wireless CPS to program the radio via Wireless | | |
| 5 | Radio Info | Radio ID\Firmware\Hardware | | | Displays radio ID, firmware version, hardware version. to check the radio information. |

## Disclaimer

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