USER'S MANUAL

Model: UV-9G

PREFACE

Thank you for purchasing P52UV GMRS Radio, which is a dual band/dual display radio/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.

This manual is applicable to the following product: UV-9G, GMRS-9R, GM-56, GM-57WP, P52UV GMRS Radio.

Table of Contents

1. GETTING STARTED

1.1 Regulations and Safety Warnings

ATTENTION!

To help you ward off bodily injury or property loss that may arise from improper operation, please read all the information carefully before using our products. This contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulation.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to **Part 15** of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then 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.

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 condition that this device does not cause harmful interference.
WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBIITED UNDER FCC RULES AND FEDERRAL LAW.

WARNING! Read this information before using the radio. In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters.
Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of the radio complies with the FCC guidelines and these international standards.
Never allow children to operate the radio without adult supervision and the knowledge of the following guidelines.
WARNING! It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following:
Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the radio, or result in violation of FCC regulations.
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.

FCC Warnings

Our PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY radio generators RF electromagnetic energy during transmit mode.This radio is designed for and classified as“General/uncontrolled”,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“Occupational Use Only” in an uncontrolled environment. This radio has been tested and complies with the FCC RF exposure limits for“General/uncontrolled”.

Inaddition, our PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY 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:

---IEEE Std. 1528:2013 and KDB447498, 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 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, PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY 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 General/uncontrolled RF exposure emvironment at operating duty factors of up to 50% and is authorized by the FCC for General/uncontrolled used. An appropriate warning lable is affixed to all units. In order to comply with RF exposure requirements, a minimum distance of 2.5 cm must be maintained when held-to-face, and body-worn operations are restricted to the approved original acessories (belt clip), a minimum distance of 0 cm. Do not use this device when antenna shows obvious damages. This product is compliance to FCC RF Exposure requirements and refers to FCC website https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm search for FCC ID: 2AJGM-UV-9G to gain further information include SAR Values.

■Licensing Information

Use of Pofung radio in Canada/USA is subject to the rules & regulations of IC/FCC. IC/FCC requires no license when operated in Canada/USA. Changes or modifications not expressly approved by PO FUNG COMPANY may void the user authority granted by the IC/FCC to operate this radio and should not be made. To comply with IC/FCC requirements, transmitter adjustments should be made only by or under the supervision of a person

certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the IC/FCC equipment authorization for this radio could violate IC/ FCC rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Important: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.

To be safe and sure:

- Never open your radio's case.
- Never change or replace anything in your radio except the battery.
- Any attempt to change frequencies or output power of the radio invalidates the approval

Compliance with RF Exposure Standards

The radio complies with the following RF energy exposure standards and guidelines:

- **United States Federal Communications Commission, Code of Federal Regulations; 47 CFR § 1.1307, 1.1310 and 2.1093**
- **American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005; Canada RSS102 Issue 5 March 2015**
- **Institute of Electrical and Electronic Engineers (IEEE) C95.1:2005 Edition**

RF Exposure Compliance and Control

Guidelines and Operating Instructions

To control your exposure and ensure compliance with the occupational/ controlled environmental exposure limits, always adhere to the following procedures.

Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), press the Push-to-Talk (PTT) key. To receive calls, release the [PTT] key. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy only when transmitting (in terms of measuring for standards compliance).
- Keep the radio unit at least 2.5 cm away from the face. Keeping the radio at the proper distance is important as RF exposure decreases with distance from the antenna. The antenna should be kept away from the face and eyes.
- When worn on the body, always place the radio in an approved holder, holster, case, or body harness or by use of the correct clip for this product. Use of non-approved accessories may result in exposure levels which exceed the FCC's occupational/ controlled environmental RF exposure limits.
- Use of non-approved antennas, batteries, and accessories causes the radio to exceed the FCC RF exposure

guidelines.

• Contact your local dealer for the product's optional accessories.

GMRS Communication

This GMRS (General Mobile Radio Service) feature is a land-mobile service available for short-distance, two-way communications in the USA. You must have a valid FCC license to communicate on these channels. The GMRS frequencies that radio this radio uses are set aside for communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall. Licensed users will be issued a call sign by the FCC, which should be used for station identification when operating this radio. GMRS users should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of their transmission time.

Licensing Information

USA

This two-way radio operates on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. A user must be licensed prior to transmitting on the GMRS band with this radio. Serious penalties could result for unlicensed use of GMRS channels, in violation of FCC rules. Operation of this radio is subject to additional rules specified in 47 C.F.R. Part 95. For licensing information and application forms, please call the FCC Hotline at 800418-FORM. Request form #159 and from #605. Questions regarding the license application should be directed to the FCC at 888-CALL-FCC. Additional information is available on the FCC's website at www.fcc.gov.

NOTE: Normal GMRS only radios operate 8-14th at a maximum power of 0.5 watt.

Canada

Use of Pofung radio in Canada is subject to the rules & regulations of IC. IC requires no license when operated in Canada. Changes or modifications not expressly approved by PO FUNG COMPANY may void the user authority granted by the IC to operate this radio and should not be made. To comply with IC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the IC equipment authorization for this radio could violate IC rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Initial setup Safety Information

The following safety precautions should always be observed during operation, service and repair of this equipment.

• Qualified technicians shall service this equipment only.

• Do not modify the radio for any reason.

• Only use the company supplied or approved batteries and chargers.

• Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

• Turn off your radio prior to entering any area with explosive and flammable materials.

- Do not charge your battery in a location with explosive and flammable materials.
- To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any area where posted notices instruct you to do so.
- Turn off your radio before boarding an aircraft; any use of a radio must be in accordance with airline regulations or crew instructions.
- Turn off your radio before entering a blasting area.
- For vehicles with an air bag, do not place a radio in the area over an air bag or in the air bag deployment area.

1.2 Main features

- Dual band (VHF/UHF) displayed
- 22 GMRS Two-Way Channels (RX &TX)
- 87 Programmable Scanner Channels (Receive Only)
- Output power: 4W/0.5W (GMRS)
- 155 Privacy Codes (50 CTCSS codes/ 105 DCS codes)
- SOS Emergency function
- Built-in FM Radio (76-108MHz)
- 328 Motorola accessory jack
- TOT (Time out timer)
- Reverse function
- Busy Channel Lockout function (BCL)
- Frequency step: 2.5/5/6.25/10/12.5/25KHz
- Repeater shift
- Power Save
- IP57 certified
- Operating modes: UHF/VHF, UHF/UHF, VHF/VHF
- 8 GMRS Repeater Channels (RX & TX)
- 11 NOAA Weather Radio & Scan (Channels 117-127)
- CTCSS and DCS codes research
- 1750Hz tone for repeaters
- Tri-Color Adjustable Backlight
- Scan, Dual Watch functions
- Channel or frequency mode selection
- DTMF function
- Setting and storing of channel names
- VOICE: vocal indication of the function selected
- Frequency offset (adjustable): 0-69.990MHz
- Squelch adjustable in 9 levels
- Li-Ion 1800mAh battery pack

1.3 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.

1.4 Content of the packaging

- 1 Li-Ion battery pack 1800mAh 7.4V
- 1 fast desktop charger

• 1 wall adaptor

• 1 belt clip

If any item is missing, please verify with your Pofung dealer.

2. BATTERY INFORMATION

2.1 Charging the Battery Pack

The Li-ion battery pack is not charged at the factory; please charge it before use. Charging the battery pack for the first time after purchase or extended storage (more than 2 months) may not bring the battery pack to its normal maximum operating capacity. Best operation will require fully charging/ discharging the battery two or three times before the operating capacity will reach its best performance. The battery pack life may be depleted when it's operating time decreases even though it has been fully and correctly charged. If this is the case, replace the battery pack.

2.2 Charger Supplied

Please use the specified charger provided by Pofung. Other models may cause explosion and personal injury. After installing the battery pack, and if the radio displays low battery with a voice prompt, please charge the battery.

2.3 Use Caution with the Li-ion Battery

a. Do not short the battery terminals or throw the battery into a fire. Never attempt to remove the casing from the battery pack, as Pofung cannot be held responsible for any accident caused by modifying the battery.

b. The ambient temperature should be between 5℃-40℃ (40˚F - 105˚F) while charging the battery. Charging outside this range may not fully charge the battery.

c. Please turn off the radio before inserting it into the charger. It may otherwise interfere with correct charging.

d. To avoid interfering with the charging cycle, please do not cut off the power or remove the battery during charging until the green light is on.

e. Do not recharge the battery pack if it is fully charged. This may shorten the life of the battery pack or damage the battery pack.

f. Do not charge the battery or the radio if it is damp. Dry it before charging to avoid damage.

WARNING!

When keys, ornamental chain or other electric metals contact the battery terminal, the battery may become damage or injure a human. If the battery terminals are short circuited it will generate a lot of heat. Take care when carrying and using the battery. Remember to put the battery or radio into an insulated container. Do not put it into a metal container.

2.4 How to Charge

a. Plug the AC adaptor into the AC outlet, and then plug the cable of the AC adaptor into the DC jack located on the back of the charger. The indicator light blinks orange and is then ready to charge a battery.

b. Plug the battery or the radio into the charger. Make sure the battery terminals are good in contact with charging terminals. The indicator light turns to red--- charging begins.

c. It takes approximately 2-5 hours to fully charge the battery. When the lamp lights green, the charging is completed. Remove the battery or the radio unit with its battery from socket.

When charging a radio (with battery) the indicating lamp will not turn into green to show the fully charged status if the radio is powered on. Only when the radio is switched off will the lamp indicate normal operation.

The radio consumes energy when it is power-on, and the charger cannot detect the correct battery voltage when the battery has been fully charged. So the charger will charge the battery in constant voltage mode and fail to indicate correctly when the battery has been fully charged.

2.5 LED Indicator

STATUS	LED
No Battery	Green and red alternately flashing
Charge Normally	Red
Fully Charged	Green
Trouble	Red blinks fast for a long time

NOTE：Trouble means battery too warm, battery short-circuited or charger short-circuited.

2.6 How to Store the Battery

a. If the battery needs to be stored, keep it in status of 80% discharged.

b. It should be kept in low temperature and dry environment.

c. Keep it away from hot places and direct sunlight.

» Do not short circuit the battery terminals.

» Never attempt to remove the casing from the battery pack.

» Never store the battery in unsafe surroundings, as a short may cause an explosion.

» Do not put the battery in a hot environment or throw it into a fire, as it may cause an explosion.

3. INSTALLATION OF ACCESSORIES

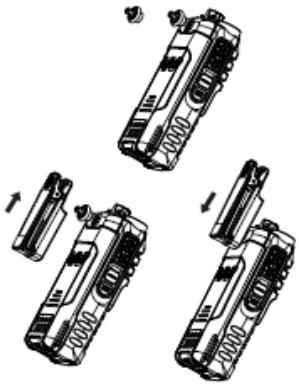
Before the radio is ready for use we need to attach the battery pack, as well as charge the battery.

3.1 Installing the belt clip

a. Install the fixing head: Install the random belt clip fixing head in the slot on the back of the two-way radio and tighten the screws.

b. Insert the rotating belt clip: Slide the fixed head of the machine along the guide of the rotating back clip until you hear a "click" sound.

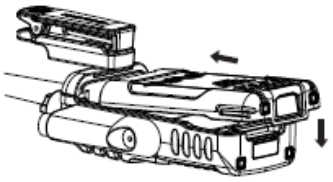
c. Remove the belt clip: Use the key to press the disassembly engine upwards until it releases, and then push the belt clip with your thumb until the belt clip is removed.



3.2 Installing the battery pack

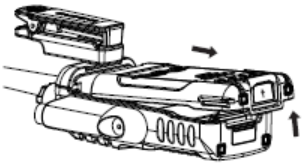
Before attaching or removing the battery make sure your radio is turned off by turning the power/volume knob all the way counter-clockwise.

Insert the two protrusions on the front of the battery into the notches on the bottom of the radio, and then press the tail of the battery toward the radio until you hear a "click".



Remove the battery pack

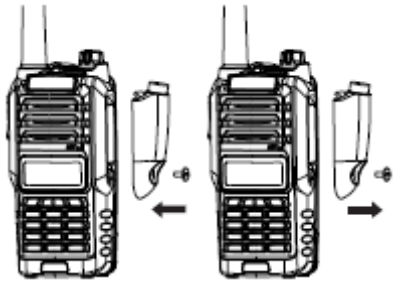
Turn off the radio. Then lift the battery push button at the end of the battery in the direction indicated by the arrow to disengage the tail of the battery from the intercom and remove the battery backwards.



3.3 Installing the Additional Speaker/Microphone (Optional)

a. Use a flat-blade screwdriver to unscrew the screw at the lower end of the cover counterclockwise to remove the headset cover.

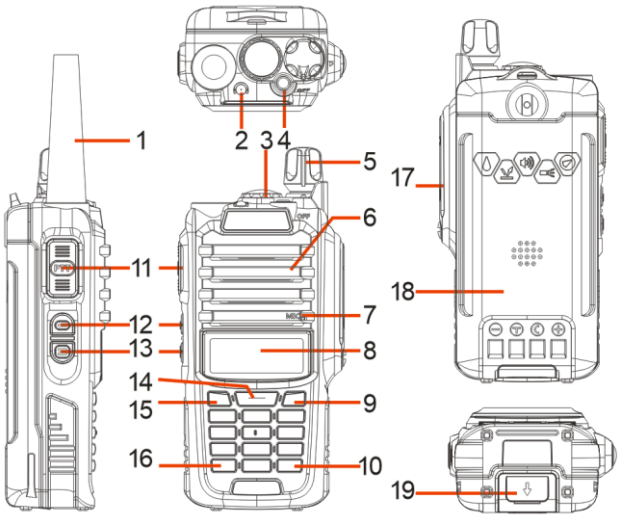
b. Insert the protruding part of the lower end of the headset into the slot indicated by the arrow in the figure below, and then align the nut on the upper end of the headset with the corresponding threaded hole of the transceiver and rotate it clockwise until it is tightened.



NOTE: Please install accessories correctly; otherwise the waterproof performance of this product may be affected.

4. RADIO OVERVIEW

4.1 Buttons and controls of the radio



1. Antenna

2. Led: transmission (red) ; reception (green)

3. Flashlight

4. SOS: If you keep it pressed for 5 seconds you will hear an alarm note and the radio will switch to alarm mode

5. Power / Switch / Volume control: Rotate to switch on/off the radio and adjust the volume

6. Speaker

7. Microphone

8. LCD display

9. EXIT: press to exit the Menu and functions. A/B (appears on the display): push to select the desired frequency (VHF or UHF) in the main or secondary display

10. #TO : Keypad lock. Long pressure: the keypad will be locked. Short pressure: high or low power selection

11. PTT

12. SK1: Press it activate the FM radio

13. SK2: Long press: to activate the Monitor function. Short press: turns the flashlight on. Press it again to issue an emergency light

14. ▲ /▼ keys: to select the functions/menu

15. MENU: enter the MENU functions and confirms the selection. In the off state, press and hold this key to turn on the radio, allowing switching between frequency mode or channel mode

16. *SCAN: Reverse frequency/SCAN. Press to activate the Reverse frequency; keep it pressed to activate the SCAN function

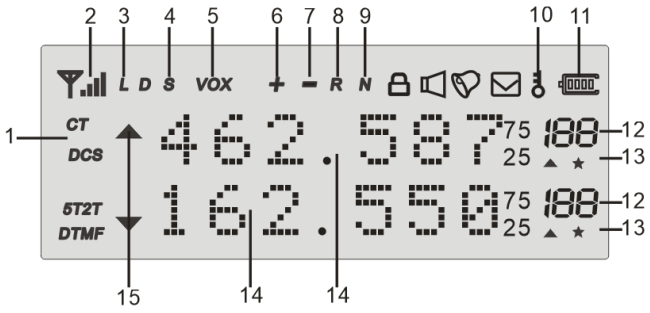
17. MIC/SP: External speaker/mike jacks

18. 1800mAh Li-Ion battery pack

19. Battery release latch

4.2 Main controls and parts of the radio

LCD Display



1. These symbols show that you set a **DCS** or **CTCSS** code in tx or rx. In tx mode it appears while you are transmitting, while in rx mode it is shown also in stand-by condition.

2. Received signal strength.

3. Low power selection

4. This letter is displayed when the **Dual Watch** function is active.

5. VOX function enabled. (GMRS Version does not support)

6. Appears when a **positive shift** is activated.

7. Appears when a **negative shift** is enabled.

8. Reverse frequency

9. Narrow/Wide bandwidth: N = narrow. When the wide (W) bandwidth is activated, no icon is displayed.

10. This icon indicates the **keypad lock**. To unlock it press **[#]** .

11. **Battery level indicator.** When the battery is almost used up, the icon starts blinking and the transmission is blocked. Charge the radio.

12. Indicates the **channel number** that you stored

13. When the radio is in **reception mode**, this icon is displayed

14. Depending on the setting, it will show the frequency in use, the channel name, the menu setting, etc

15. Indicates the **VFO** in use and the current menu or function setting. This icon is displayed close to the band in use or to the menu settings.

Battery Level Indicator

When the battery level indicator reads the battery is depleted. At this point the radio will start beeping periodically as well as flash the backlight of the display and when voice prompts are enabled, a "Low Voltage" announcement will be heard, indicating that you need to change your battery or put your radio in the charger.

4.3 Status Indications

The status LED has a very simple and traditional design.

LED Indicator	Radio Status
Constant Red	Transmitting.
Constant Green	Receiving.

4.4 Main keypad controls

• **[SOS] key:** Press it for a long time you will activate the alarm function. Press it again to turn off this feature.

• **[SK1] key:** Press it for a short time to turn on the FM radio. Press it again to turn it off.

• **[SK2] key:** Press it for a short time to light up the flashlight. If you push this button again, the flashlight will light up to strobe mode. Press **[SK2]** a third time to turn off the flashlight.

To activate the Monitor function presses the button for a long time.

• **[MENU]** key: It is used for activating the MENU, choose each MENU selection and confirm the parameter.

In the off state, press and hold this key to turn on the radio, allowing to switch between frequency (VFO) mode or memory (MR) mode.

To save frequencies to channel memory you must be in Frequency (VFO) mode. Memory mode is sometimes also referred to as Channel mode.

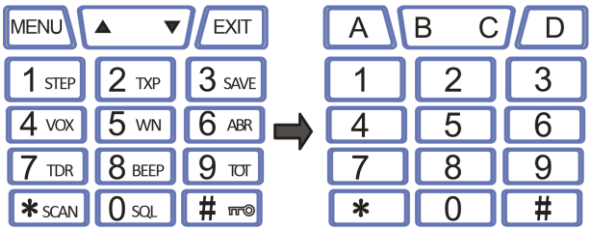
• **[▲]** key: Press it for more than 2 seconds, the channel and frequency will move upwards rapidly; in SCAN mode, press this control to move the scanning upwards.

• **[▼]** key: Keep it pressed it for more than 2 seconds, the channel and frequency will move downwards rapidly; in SCAN mode, press this control to move the scanning downwards.

• **[EXIT]** key: press to exit the Menu and functions. A/B (appears on the display): push to select the desired frequency (VHF or UHF) in the main or secondary display. When listening to broadcast FM, the **[EXIT]** key switches between 65-75 MHz and 88-108 MHz band.

• Numeric keypad

With these keys you can input the information or your selections on the radio. In tx mode, push the number keys to send a corresponding DTMF code.



• *SCAN Key

A short momentary press of the key enables the reverse function.

When listening to broadcast FM a momentary press will start the scanning. Scanning in broadcast FM will stop as soon as an active station is found, regardless of scanner resume method.

To enable the scanner, press and hold the **[*SCAN]** key for about two seconds.

• Zero 0 Key

The Pofung P52UV features a battery voltage meter that the current voltage of the battery on the display.

To see the voltage displayed, press and hold the **[0SQL]** key for about two seconds.

• #TTO key

If you press shortly **[#TTO]** you will switch to High /Middle /Low output power.

If you press this button for more than 2 seconds you will lock/unlock the keypad.

5. BASIC OPERATIONS

5.1 Power on the radio

• Turning the unit on

To turn the unit on, simply rotate the **volume/power** knob clockwise until you hear a "click". If your radio powers on correctly there should be an audible double beep after about one second and the display will show a message or flash the LCD depending on settings for about one second. Then it will display a frequency or channel. If the Voice prompt is enabled, the voice will announce "frequency mode" or "channel mode".

• Turning the unit off

Turn the **volume/power** knob counter-clock wise all the way until you hear a "click". The unit is now off.

5.2 Adjusting the volume

To turn up the volume, turn the volume/power knob clock-wise. To turn the volume down, turn the **volume/power** knob counter-clock-wise. Be careful not to turn it too far, as you may inadvertently turn your radio off.

5.3 Making a call

NOTE: Press the [EXIT] key to switch the main channel to the other channel if there is 2 channels shown on the display. In the off state, press and hold the [MENU] key to turn on the radio; it will switch between frequency mode or channel mode.

- Channel mode call: After selecting a channel, hold down the **[PTT]** key to initiate a call to the current channel. Speak into the microphone with normal tone. Initiate a call, the red LED is on.
- Frequency mode call: The off state, hold press **[MENU]** key to open the radio, switching to the frequency mode, the frequency range allowed entering, press the **[PTT]** key, a call to the current channel. Speak into the microphone with normal tone. Initiate a call, the red LED is on.
- Receive a call: When you release the **[PTT]** key, you can answer it without any action. When receiving a call, the green LED is on.

NOTE: To ensure the best reception volume, keep the distance between the microphone and the mouth at the time of transmission from 2.5 cm to 5 cm.

5.4 Channel selection

There are two modes of operation: Frequency (VFO) mode, and Channel or Memory (MR) mode.
For everyday use, Channel (MR) mode is going to be a whole lot more practical than Frequency (VFO) mode.
However, Frequency (VFO) mode is very handy for experimentation out in the field. Frequency (VFO) mode is also used for programming channels into memory.
In Channel (MR) mode you can navigate up and down the channel by using the ▲ and ▼ keys.
Ultimately which mode you end up using will depend entirely on your use case.

5.5 Frequency (VFO) mode

In Frequency (VFO) mode you can navigate up and down the band by using the ▲ and ▼ keys. Each press will increment or decrement your frequency according to the frequency step you've set your transceiver to.
You can also input frequencies directly on your numeric keypad with kilohertz accuracy.
The following example assumes the use of a 12.5 kHz frequency step.

Example. Entering the frequency 462.6125 MHz on display *A*

a. The off state, hold press **[MENU]** key to open the radio, switching to the frequency (VFO) mode.
b. Press **[EXIT]** until the ▲ icon appears next to the upper display. .
c. Enter **[4][6][2][6][1][2][5]** on the numeric keypad.

5.6 Channel (MR) mode

The use of Channel (MR) mode is dependent on actually having programmed in some channels to use.
Once you have channels programmed and ready, you can use the ▲ and ▼ keys to navigate between channels.

6. ADVANCED FEATURES

6.1 Frequency scanning

This function can scan the frequency.

a. In frequency mode, press **[*SCAN]** key for more than 2 seconds. The radio will start scanning the frequency according to the set frequency step.

b. You can change the scanning direction with the ▲ and ▼ keys.

c. Press any key to stop the scanning.

Note: for Scan mode, see Menu No.18.

6.2 Channel scanning

This function can scan the channels.

a. In channels mode, press **[*SCAN]** key for more than 2 seconds. The radio will start scanning according to the channel you set.

b. You can change the scanning direction with the ▲and ▼ keys.

c. Press any key to stop scanning.

Note: for Scan mode, see Menu No.18.

6.3 Search CTCSS/DCS Code

With this function you can search and store the CTCSS/DCS code used by other radios.

Procedure:

a. In frequency mode press **[MENU]+[1][1].**

b. Press **[MENU]** key again.

c. Press **[*SCAN]** key; CT will blink on the display.

d. When another radio is transmitting, the display will show the CTCSS/DCS code.

e. After searching the CTCSS code, the radio will beep and stop scanning.

f. After setting, press **[MENU]** key for confirmation and store, or press **[PTT]** or **[EXIT]** key to return to standby mode.

NOTE 1: the DCS scanning has the same procedure of CTCSS code, but you have to select MENU+10 to enter scanning.

NOTE 2: if CTCSS has not searched the code, you can search using the DCS mode.

6.4 Cursor▼▲Conversion (A/B)

Directly press **[EXIT]** key to move the cursor up and down. Then, you can modify or confirm the parameters indicated by the cursor.

Important1: P52UV has a dual-frequency display function. In frequency mode, you will see on the display two different receiving and transmitting frequencies; while in channel mode the two different channels will be displayed.

Important2: In frequency or channel mode, press the **[EXIT]** key to shift between the main channel A and the sub-channel B

▲ on the display indicates on which channel (main channel A or sub channel B) you are operating.

▼ is displayed next to the channel.

6.5 High/ Low power fast selection

In channel mode, press **[#TO]** key to shift between high/low power.

6.6 Keypad lock

This function locks the keypad to prevent accidental pressure of the controls.

To unlock the keypad, press **[#]** for more than 2 seconds.

6.7 FM Radio (FM)

The frequency range to listen to the radio is 65-108MHz. When listening to broadcast FM, press **[EXIT]** key switches between 65-75 MHz and 76-108 MHz band.

a. In frequency or channel mode, Press **[SK1]** to turn on the radio.

b. Select the desired radio frequency with the ▲ or ▼ keys or input the frequency. Or

- Press [*** SCAN**] to automatically search a radio station.

c. Press [**SK1**] to exit FM radio.

6.8 Flashlight

This function is very useful for night illumination.

To turn it on press MON; push it again, the flash light will be strobe; push it again: it will turn off.

6.9 TX 1000Hz, 1450Hz, 1750Hz, 2100Hz repeaters tone

Press **[PTT] + [SOS]** to send 1750Hz repeaters tone. This function is useful for communications through repeaters. If you have the keypad lock enabled on your radio, you can still send a 1750Hz tone the regular way without having to unlock your radio.

6.10 NOAA weather radio/ scan

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 enable the user to scan all 11 channels of the NOAA weather radio.

To select the NOAA channel, enter the channel number 117 ~ 127 directly in the channel mode or press the ▲or ▼ keys until the channel 117 ~ 127.

To scan the NOAAWEATHER channel, press and hold the [*** SCAN**] key for 3 seconds in channel mode. During scanning, press any key to exit the scanning state.

NOTE: The radio's NOAA weather channel is in the 117-127 channels, and the detailed frequency is NOAA WEATHER (WX) RADIO FREQUENCY CHART.

6.11 Manual Programming (Channels Memory)

Memory channels are an easy way to store commonly used frequencies so that they can easily be retrieved at a later date.

The Pofung P52UV features 128 memory channels that each can hold: Receive and transmit frequencies, transmit power, group signaling information, bandwidth, ANI/ PTT-ID settings and a six character alphanumeric identifier or channel name [1].

Frequency Mode vs. Channel Mode

In the off state, press and hold the [MENU] key to turn on the radio; it will switch between frequency mode or channel mode.

These two modes have different functions and are often confused.

Frequency Mode (VFO) : Used for a temporary frequency assignment, such as a test frequency or quick field programming if permitted.

Channel Mode (MR) : Used for selecting preprogrammed channels.

Ex 1. Programming a Channel Repeater Offset with CTCSS Tone

EXAMPLE New memory in Channel 10:

RX = 462.5750 MHz

TX = 467.5750 MHz (This is a (+ 5) Offset)

TX CTCSS tone 123.0

a. Turn off the radio.

b. Hold press [MENU] key to open the radio, switching to the frequency mode.
Channel number at the right will disappear.

c. [MENU] [2][8][MENU] [1] [0] [MENU] [EXIT] Deletes Prior Data in channel (Ex. 10)

d. [MENU] [1][3] [MENU] 123.0 **[MENU] [EXIT]** Selects desired TX encode tone

e. Enter RX frequency **(Ex. 4625750)**

f. [MENU] [2][7] [MENU] [1][0] [MENU] Enter the desired channel (Ex 10)

-->>[EXIT] RX has been added

g. Enter TX frequency (Ex. **4675750**)

h. [MENU] [2][7] [MENU] [1][0] [MENU] Enter the same channel (Ex 10)

-->> [EXIT] TX has been added

i. In the off state, press and hold the **[MENU]** key to turn on the radio, return to MR mode, and the channel number will reappear.

Ex 2. Programming a Simplex Channel with CTCSS tone

EXAMPLE New memory in Channel 10:

RX = **462.5750** MHz

TX CTCSS tone 123.0

a. Change from Menu to Menu by pressing the **[EXIT]** button.

b. The off state, hold press **[MENU]** key to open the radio, return to the frequency mode.
Channel number at the right will disappear.

c. [MENU] [2][8] [MENU] [1] [0] [MENU] [EXIT] Deletes Prior Data in channel (Ex. 10)

d. [MENU] [1][3] [MENU] 123.0 [MENU] [EXIT] Select desired TX encode tone (Ex 123 CTCSS)

-->>Use **[EXIT]** to select Upper display

e. Enter RX frequency (Ex. **462.5750**)

f. [MENU] [2][7] [MENU] [1][0] [MENU] Enter the desired channel (Ex 10)

-->> [EXIT] Channel has been added

g. In the off state, press and hold the **[MENU]** key to turn on the radio, return to MR mode, and the channel number will reappear.

6.12 Repeaters Programming

The following instructions assume that you know what transmit and receive frequencies your repeater employs, and that you're authorized to use it.

a. Turn off the radio. Press and hold the **[MENU]** key to turn on the radio and return to the frequency（VFO) mode. The channel number on the right will disappear.

b. Use the numeric keypad to enter the repeater's output (your receiving) frequency.

c. Press the **[MENU]** key to enter the menu.

d. Enter **[2][6]** on the numeric keypad to get to frequency offset.

e. Press **[MENU]** key to select.

f. Use the numerical keypad to enter the specified frequency offset. See the section called “26 OFFSET - Frequency shift amount” for details.

g. Press **[MENU]** to confirm and save.

h. Enter **[2][5]** on the numeric keypad to get to offset direction.

i. Use the ▲/▼ keys to select + (positive) or - (negative) offset.

j. Press **[MENU]** to confirm and save.

k. Optional:

a). Save to memory, see the section called “Manual programming” for details.

b). Set up CTCSS; see the section called “CTCSS” for details.

l. Press **[EXIT]** to exit the menu. If everything went well, you should be able to make a test call through the repeater.

NOTE:

If you're experiencing problems making a connection to the repeater, check your settings and/or go through the procedure again.

Certain Amateur Radio repeaters (especially in Europe) use a 1750Hz tone burst to open up the repeater. To see how this is done with the Pofung P52UV, see the section called “1750Hz Tone-burst”.

If you're still unable to make a connection, contact the person in charge of the radio system with your employer or your local amateur radio club, as the case may be.

If you for some reason want to listen to the repeater's input frequency instead, press **[*SCAN]** key momentarily and you'll reverse your transmit and receive frequencies.

This is indicated in the LCD on the radio with an R in the top row, next to the **+** and **-** for the offset direction.

7. WORKING THE MENU SYSTEM

For a complete reference on available menu items and parameters, see **Appendix C, Shortcut Menu operations.**

Note: in channel mode, the setting of these features is not possible: CTCSS/ DCS tones, wide/narrow bandwidth, PTT-ID, Busy channel lock out, channel name edit.

7.1 Basic use

Using the menu with arrow keys

a. Press the **[MENU]** key to enter the menu.

b. Use the [▲] and [▼] keys to navigate between menu items.

c. Once you find the desired menu item, press **[MENU]** again to select that menu item.

d. Use the [▲] and [▼] keys to select the desired parameter.

e. 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.

f. To exit out of the menu at any time, press the **[EXIT]** key.

7.2 Using short-cuts

As you may have noticed if you looked at **Appendix C, Shortcut Menu operations**, every menu item has a numerical value associated with it. These numbers can be used for direct access of any given menu item.

The parameters also have a number associated with them, see **Appendix C, Shortcut Menu operations** for details.

Using the menu with short-cuts

a. Press the **[MENU]** key to enter the menu.

b. Use the numerical keypad to enter the number of the menu item.

c. To enter the menu item, press the **[MENU]** key.

d. For entering the desired parameter you have two options:

a). Use the arrow keys as we did in the previous section; or

b). Use the numerical keypad to enter the numerical short-cut code.

e. 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.

f. To exit out of the menu at any time, press the **[EXIT]** key.

g. All further examples and procedures in this manual will use the numerical menu short- cuts.

7.3 Functions and operations

(1) Squelch level (SQL) - MENU No.0

Thanks to this function you can adjust the squelch in 10 different levels:

- **level 0**: opened squelch. With this setting, P52UV will detect all signals, also the weakest ones, but will also receive the background noise or undesired signals.
- **levels 1- 9**: level 1 (lowest squelch level), level 9 (highest squelch level).

If the squelch is set to the highest level, the radio will receive the strongest signals only.

(2) Step frequency (STEP) - MENU No.1

This function lets you select the desired frequency step.

The selectable steps are the following: 2.5/5.0/6.25/10.0/12.5/20.0/25.0/50.0 KHz

Note: in channel mode, this function cannot be modified.

(3) Output power (TXP) - MENU No.2

In this MENU you can select the high / low output power. ant

Low power = 0.5W; High power = 4W

Note: select the output power can improve the quality of the call, while the low output power can reduce the radiation and the battery capacity loss. Press the fast key "#TTO" to switch between the high or low output powers.

(4) Battery save (SAVE) - MENU No.3

The power save feature enables a reduction in the consumption of the battery when the radio is in standby.

You have 5 selections available: OFF / 1:1 / 1:2 / 1:3 / 1:4.

For example: 1:1 = 1s' working and 1s' battery saving. 1:2 = 1s' working and 2s' battery saving.

(5) VOX Function (VOX) - MENU No.4

This function allows hands-free conversations: just speak in the direction of the microphone and the communication will be automatically activated.

You can choose amongst 11 levels: OFF-10. 1 is the highest level, 10 is the lowest one.

Note: GMRS Version does not support

(6) Wide/Narrow bandwidth (WN) - MENU No.5

This function is used to set the working bandwidth of the radio.

You can choose between wide or narrow bandwidth.

NARROW: 12.5KHz

WIDE: 25KHz

(7) Backlight (ABR) - MENU No. 6

With this function you can adjust the auto off time of the display backlight (1-5s).

Note: we suggest you setting 4-5s levels.

(8) Dual Watch Operation (TDR) - MENU No. 7

When this function is activated, you can receive the frequency of channel A and channel B at the same time.

If a signal is detected, the▼/▲ pointer will blink on the corresponding channel or frequency.

Note: In Dual Watch operation mode, you can change the parameter of AB channel or frequency freely.

(9) Keypad beep (BEEP) - MENU No. 8

When this function is enabled, every time a button is pressed, you will hear a beep tone.

(10) Time-Out-Timer (TOT) - MENU No.9

The TOT function is used to prevent a too long transmission and limits the tx time: TOT temporarily stops the transmission if the radio has been used beyond the max pre-set time (for example 15s, 30s, 45s, etc).

(11) Receiving DCS (R-DCS) - MENU No.10

DCS codes are similar to access codes and can be added to channels, so as to create a sort of personal channel. They enable the radio to communicate with the users that are tuned on the same channel and have set the same DCS code.

You can choose amongst:

- **OFF:** OFF
- **R-DCS:** D023N-D754N (Normal DCS)
- **R-DCS:** D023I-D754I (Inverse DCS)

Note: In P52UV there are 208 groups of normal and inverse DCS codes. This function cannot be amended in channel mode.

(12) Receiving CTCSS (R-CTCSS) - MENU No.11

As DCS codes, the CTCSS codes can be added to the channels for creating new private channels.

Note: there are 50 groups of CTCSS tones. In channel mode the CTCSS tones cannot be changed.

(13) Transmitting DCS - (T-DCS) - MENU No.12

In this Menu you activate DCS codes in tx mode. You can choose between normal R-DCS (D023N-D754N) and inverted R-DCS (D023I-D754I)

Note: the groups of DCS codes are 208. DCS codes cannot be changed in channel mode.

(14) Transmitting CTCSS (T-CTCSS) - MENU No.13

In this Menu you can set a CTCSS tone in tx mode.

You can choose: OFF or CTCSS (67.0 to 254.1 Hz)

Note: there are 50 groups of CTCSS tones. In channel mode the CTCSS tones cannot be changed.

(15) Voice function (VOICE) - MENU No. 14

With this function, you activate a voice that informs you about any operation/ selection you are doing.

(16) ANI-ID (ANI-ID) - MENU No.15

With this function you can set your ID-code. It can be programmed by the proper programming software. You can edit up to 5 digits.

(17) DTMFST (DTMFST) - MENU No.16

Determines when DTMF Side Tones can be heard from the transceiver speaker.

(18) Signal code (S-CODE) - MENU No.17

Selects 1 of 15 DTMF codes. The DTMF codes are programmed with software and are up to 5 digits each.

(19) SCAN Resume Mode (SC-REV) - MENU No.18

Thanks to this function, P52UV can SCAN in frequency or channel mode. You can choose amongst three options:

TO: Time-operated SCAN

Whenever a signal is detected, the radio will suspend the SCAN for 5 seconds, and then will continue to SCAN even if the signal is still present.

CO: Carrier-operated SCAN

Whenever a signal is detected, the radio will stop scanning. It will resume to SCAN once the signal will disappear.

SE: Search SCAN

The radio will stop scanning once a signal is detected.

(20) PTT-ID (PTT-ID) - MENU No.19

With this function you can decide when sending the ANI-ID code in tx mode.

You can choose amongst 4 possibilities.

- **OFF:** press PTT to turn it off
- **BOT:** the code is sent when you press the PTT
- **EOT:** the code is sent when the PTT is released
- **BOTH:** the code is sent when you press and release the PTT

Note: select 'OFF' when using in case of affecting the radio.

(21) PTT ID delay (PTT-LT) - MENU No.20

In this MENU you can set the delay time (0-30ms) sending the PTT-ID.

Note: select '0' in normal using.

(22) Channel A Display Mode (MDF-A) - MENU No.21

This function is used to set the display mode of channel A.

Display modes:

- **FREQ.:** Frequency + channel No.
- **CH:** Channel number
- **NAME:** Channel name

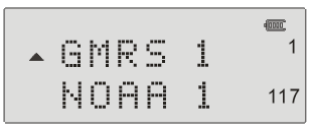
Note: Channel name mode must be set by the programming software. Up to three numbers or characters can be edited.

(23) Channel B Display Mode (MDF-B) - MENU No.22

This function is used to set the display mode of channel B.

Display modes:

- **FREQ.:** Frequency + channel No.
- **CH:** Channel number
- **NAME:** Channel name



Note: Channel name mode must be set by the programming software. Up to three numbers or characters can be edited.

(24) Busy Channel Lock (BCL) - MENU No. 23

When this function is on, it may prevent other radios' interference. If the selected channel is being used by other radios, when you press key PTT, your radio cannot transmit.

Release the PTT and transmit as soon as the frequency is no longer busy.

(25) Auto Keypad Lock (AUTOLK) - MENU No.24

When this feature is activated, the keypad will be automatically locked after 15s; this prevents accidental pressure of any keys.

(26) Frequency offset direction (SFT-D) - MENU No.25

Using this function, you can set the direction of the frequency offset in rx and tx.

You have the following options:

+: Positive offset;

-: Negative offset;

OFF: no offset

Note: you should set different frequency deviation according to the repeaters selected. This function is not enabled in channel mode.

(27) Frequency offset (OFFSET) - MENU No. 26

In this MENU you can set the deviation between tx and rx. The frequency offset of this radio is 0-69.990MHz.

(28) Channel store - (MEM-CH) - MENU No. 27

When the radio is in frequency working mode or standby mode, input the desired frequency or parameters directly.

To set a CTCSS tone or a DCS code in tx or rx on the stored channel, refer to paragraphs MENU 10-13

Note: You cannot overwrite a stored channel, you have to delete it first. See following paragraph No.28.

(29) Channel Delete (DEL-CH) - MENU No.28

In this menu you can delete a channel of the radio.

(30) Standby backlight (WT-LED) - MENU No.29

In this MENU you can choose the color of the backlight when the radio is in standby mode.

You can choose amongst:

- **OFF** (backlight off)
- **BLUE**
- **PURPLE**
- **ORANGE**

(31) RX backlight (RX-LED) - MENU No. 30

In this MENU you can choose the backlight color when the radio is receiving.

You can choose amongst:

- **OFF** (backlight off)
- **BLUE**
- **PURPLE**
- **ORANGE**

(32) TX backlight (TX-LED) - MENU No.31

You can choose the backlight color when the radio is transmitting.

Available colors:

• **OFF (backlight off)**

• **BLUE**

• **PURPLE**

• **ORANGE**

(33) Alarm Mode (AL-MOD) - MENU No.32

This function can set the tone alarm/code alarm/site alarm of the radio.

Keep pressed the **[CALL]** key for 3 seconds to start the alarm tone.

The following three options can be selected:

• **SITE:** the speaker emits an alarm tone but the radio doesn't transmit;

• **TONE:** the speaker emits an alarm tone and the radio transmits it;

• **CODE:** the speaker emits an alarm tone and the radio transmits it followed by ANI-ID code.

(34) Dual Watch (TDR-AB) - Menu No.34

When this function is on, you may receive signals of A/B channel or frequency. It can also be used for cross band receiving and transmitting. You can choose amongst the following settings:

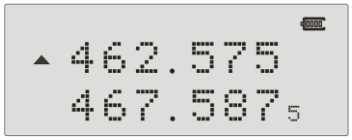
OFF: P52UV can receive in both VFO (not simultaneously); ▲ or ▼ will blink on the transmitting frequency band.

A: the radio can receive in both VFO (not simultaneously) but can transmit in VFO A only.

B: P52UV can receive in both VFO (not simultaneously) but can transmit in VFO B only.

If you choose option A, it means that 462.575MHz is the tx frequency band, while 467.5875MHz is the rx frequency band; the upper VFO shows 462.575 MHz while in the lower VFO 467.5875MHz will be displayed; you can receive on both 462.575 MHz and 467.5875 MHz, but can transmit on 462.575 MHz only.

While if you choose option B, 467.5875MHz is the tx frequency band and 462.575MHz is the rx frequency band. In the upper VFO 462.575 MHz will be displayed while the lower VFO will show 467.5875 MHz; you can receive on both 462.575 MHz and 467.5875 MHz, but transmit on 467.5875 MHz only. Example: the LCD displays



(35) Side tone elimination (STE) - Menu No. 35

This feature is helpful to eliminate the annoying audio tone after the transmission is finished (end transmission noise muffler).

(36) Side tone elimination in communication through repeater (RP-STE) - Menu No. 36

This function is used when the radio operates through a repeater; when the PTT is released, the repeater will emit the end transmission tone to confirm it is working.

Available settings:

OFF 1,2,3,4,5,….10 to set the delay time.

Note: Please disable this function in normal using, lest affect your normal conversation.

(37) Delay time of side tone elimination in communication through repeater (RPT-RL) - Menu No.37

With this function you have the confirmation that the repeater has transferred the signal. You can choose amongst: OFF 1,2,3,4,5,….10 to set the delay time.

(38) Display mode at the turning on (PONMSG) Menu No.38

With this function you can set the display mode when the radio is turned on. Available options:

• **FULL:** full frequency character is displayed.

• **MSG: P52UV is displayed.**

(39) Roger beep (ROGER) - Menu No. 39

When the PTT is released, the radio will beep to confirm to other users that you have finished your transmission and that they can start talking.

(40) Reset (RESET) - Menu No.40

With this function you can reset the transceiver to the factory-programmed settings and parameters. After that, you can set the desired functions.

There are two types of reset:

• **VFO:** Menu Reset

• **ALL:** Menu and channel Reset

(41) 1000Hz, 1450Hz, 1750Hz, 2100Hz Repeater Tone (R-TONE) - Menu No.41

With this function you can select **1000Hz, 1450Hz, 1750Hz, 2100Hz** repeater tone. To send out a repeater tone; You hold down the [**PTT]** + **[SOS]** key.

If you have the keypad lock enabled on your radio, you can still send a 1750Hz tone the regular way without having to unlock your radio.

8. ON-LINE SERVICE AND SUPPORT

The Pofung website provides additional information about obtaining service or support for the Pofung line of two-way radios and accessories. Visit: www.pofungshop.com Mail: service@pofungshop.com

FCC Licensing Information This pofung radio operates on Commercial/ Land Mobile frequencies which require a license from the Federal Communications Commission (FCC) for business, personal, education and recreational use. To obtain forms, call the FCC forms hotline at: 1-800-418-3676 or go to http://www.fcc.gov For questions concerning commercial licensing, contact the FCC at 1-888CALL-FCC (1-888-225-5322).

Appendix A. – Trouble shooting guide

Phenomena	Analysis	Solution
You cannot turn on the radio.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts or replace the battery.
During receiving, the voice is weak or intermittent.	The battery voltage maybe low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume.
	The antenna maybe loose or maybe installed incorrectly.	Turnoff the radio, and then remove and reattach the antenna.
	The speaker maybe blocked.	Clean the surface of the speaker.
You cannot communicate with other group members.	The frequency or signaling type maybe inconsistent with that of other members.	Verify that your TX/RX frequency and signaling type are correct.
	You may be too far away from other members.	Move towards other members.
You hear unknown voices or noise.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio in analog mode maybe set with no signaling.	Request your dealer to set signaling for the current channel to avoid interference
You are unable to hear anyone because of too much noise and hiss.	You may be too far away from other members.	Move towards other members.
	You may be in an unfavorable position. For example, your communication may be blocked by high buildings or blocked in an underground area.	Move to an open and flat area, restart the radio, and try again.

	It may be the result of external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.
The radio keeps transmitting.	VOX may be turned on or the headset is not installed in place	Turn off the VOX function. Check that the headphones are in place.
You cannot use the keys.	The keypad may not work temporarily.	Restart the radio.

NOTE: If the above solutions cannot fix your problems, or you may have some other queries, please contact your dealer for more technical support.

Appendix B. - Technical Specifications

General	
Frequency Range	76-108MHz (FM Rx) (VHF)136-174MHz (RX) (UHF)400-520MHz (Rx) GMRS 462.5500 ~ 467.7250 MHz (RX & TX)
Memory Channel	30 GMRS Channels + 11NOAA Weather + 87Scanner Channels
Operation Voltage	DC 7.4 V ±10%
Battery Capacity	1800mAH (Li-Ion)
Frequency Stability	±2.5ppm
Operating Temperature	-20℃ to +60℃
Mode of Operation	Simplex
Antenna Impedance	50ohm
Transmitter Part	
RF Output Power	4W/0.5W
FM Modulation	11K0F3E@12.5KHz/16K0F3E@25KHz
Spurious Emission	-13dBm < 1GHz ， -13dBm > 1GHz
Adjacent Channel Power	60dB @ 12.5 KHz
Transmission current	≤1600mA
Receiver Part	
Receive Sensitivity	0.25μV (12dB SINAD)
Adjacent Channel Selectivity	≥55dB@12.5KHz
Inter Modulation and Rejection	≥55dB@12.5KHz
Conducted Spurious Emission	≤-57dB@12.5KHz
Rated Audio Power Output	1W @16 ohms
Receive current	≤380mA
Rated Audio Distortion	≤5%

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

Appendix C. - GMRS Frequency Chart (MHz)

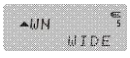
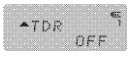
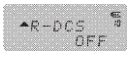
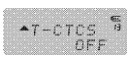
CH.No	CH.Freq.	CH.No	CH.Freq.	CH.No	CH.Freq.
1	462.5625	11	467.6375	21	462.7000
2	462.5875	12	467.6625	22	462.7250
3	462.6125	13	467.6875	23	467.5500
4	462.6375	14	467.7125	24	467.5750
5	462.6625	15	462.5500	25	467.6000
6	462.6875	16	462.5750	26	467.6250
7	462.7125	17	462.6000	27	467.6500
8	467.5625	18	462.6250	28	467.6750
9	467.5875	19	462.6500	29	467.7000
10	467.6125	20	462.6750	30	467.7250

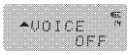
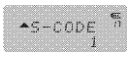
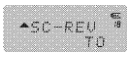
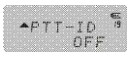
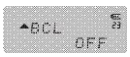
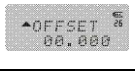
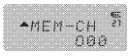
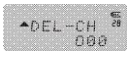
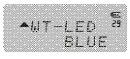
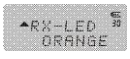
*** Channels 8~14 are low-power license free channels. Channels 23~30 are GMRS repeater channels.**

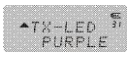
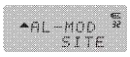
Appendix D. - Weather Channel Assignments

Channel Number	RX Frequency MHz	Weather Channel	Channel Number	RX Frequency MHz	Weather Channel
117	162.550	NOAA1	123	162.525	NOAA7
118	162.400	NOAA2	124	161.650	NOAA8
119	162.475	NOAA3	125	161.775	NOAA9
120	162.425	NOAA4	126	161.750	NOAA10
121	162.450	NOAA5	127	162.000	NOAA11
122	162.500	NOAA6	---	---	---

Appendix E. - Shortcut Menu operations

MENU No.	Name (Full Name)	Enter item	LCD display	Selectable
0	SQL - Squelch Level	MENU+0		0-9 Levels 0:Lowest 9:Highest
1	STEP –Step Frequency	MENU+1		2.5K/5.0K/6.25K/10.0K 12.5K/20.0K/25.0K/50.0K
2	TXP – Transmit Power	MENU+2		HIGH:4W Low:0.5W
3	SAVE - Battery Saving	MENU+3		OFF: 1:1 2:2 3:3 4:4
4	VOX - VOX	MENU+4		OFF, 1-9 OFF: off 1:Highest Sensitivity 9:Highest Sensitivity ***GMRS Version does not support**
5	WN-Wide/Narrow Bandwidth	MENU+5		NARR:12.5K WIDE:25K
6	ABR –Auto Backlight	MENU+6		OFF/1,2,3…8，9,10 ***Time-out for the LCD backlight. (seconds)**
7	TDR – Dual Watch Operation	MENU+7		OFF ON ***Monitor [A] and [B] at the same time. The display with the most recent activity ([A] or [B]) becomes the selected display.**
8	BEEP - Keypad Beep	MENU+8		OFF ON ***Allows audible confirmation of a key press.**
9	TOT- Time-Out-Timer	MENU+9		15,30…600S ***This feature provides a safety switch that limits transmission time to a programmed value. This will promote battery conservation by not allowing you to make excessively long transmissions, and in the event of a stuck PTT switch it can prevent interference to other users as well as battery depletion**
10	R-DCS - Receiver DCS	MENU+10		OFF D023N…D754N D023I …D754I ***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.**
11	R-CTCS - Receiver CTCSS	MENU+11		OFF 67.0HZ…254.1HZ ***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.**
12	T-DCS -Transmitter DCS	MENU+12		OFF D023N…D754N D023I …D754I ***Transmits a specific low-level digital signal to unlock the squelch of a distant receiver (usually a repeater).**
13	T-CTCS - Transmitter CTCSS	MENU+13		OFF 67.0HZ…254.1HZ ***Transmits a specific and continuous sub audible signal to unlock the squelch of a distant receiver (usually a repeater).**

14	VOICE - Voice Reminding	MENU+14		OFF CHI ENG ***Allows audible voice confirmation of a key press.**
15	ANI-ID -ANI-ID	MENU+15		It can be programmed by software
16	DTMFST - DTMFST	MENU+16		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
17	S-CODE - Signal Code	MENU+17		1,…,15
18	SC-REV - Scanner Resume Method	MENU+18		TO : Time Operation - scanning will resume after a fixed time has passed CO : Carrier Operation -scanning will resume after the signal disappears SE : Search Operation -scanning will not resume
19	PTT-ID - PTT-ID	MENU+19		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
20	PTT-LT – PTT ID delay	MENU+20		0,1,2…,50ms ***PTT-ID Delay (milliseconds)**
21	MDF-A - Channel A Display Mode	MENU+21		FREQ: Displays programmed Frequency CH: Displays the channel number NAME: Displays the channel name ***Note: Names must be entered using software.**
22	MDF-B - Channel B Display Mode	MENU+22		FREQ: Displays programmed Frequency CH: Displays the channel number NAME: Displays the channel name ***Note: Names must be entered using software.**
23	BCL – Busy Channel Lock-out	MENU+23		OFF 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.**
24	AUTOLK – Automatic Keypad Lock	MENU+24		OFF ON ***When ON, the keypad will be locked if not used in 8 seconds. Pressing the [#TTO] key for 2 seconds will unlock the keypad.**
25	SFT-D – Frequency Offset Direction	MENU+25		OFF: TX = RX (simplex) +: TX will be shifted higher in frequency than RX - : TX will be shifted lower in frequency than RX
26	OFFSET -Frequency shift amount	MENU+26		00.000…69.990 ***Specifies the difference between the TX and RX frequencies**
27	MEM-CH - Store a Memory Channel	MENU+27		000…127 ***This menu is used to either create new or modify existing channels (0 through 127) so that they can be accessed from MR/Channel Mode**
28	DEL-CH - Delete a memory channel	MENU+28		000…127 ***This menu is used to delete the programmed information from the specified channel (0 through 127) so that it can either be programmed again or be left empty.**
29	WT-LED- Standby Backlight	MENU+29		OFF/ BLUE/ ORANGE/ PURPLE
30	RX-LED- Receive Backlight	MENU+30		OFF/ BLUE/ ORANGE/ PURPLE

31	TX-LED- Transmit Backlight	MENU+31		OFF/ BLUE/ ORANGE/ PURPLE
32	AL-MOD - Alarm Mode	MENU+32		SITE: Sounds alarm through your radio speaker only TONE: Sending alarm tone CODE: Sending alarm code
33	BAND - Band Selection	MENU+33		VHF:136-174MHz(RX) UHF:400-520MHz(RX) ***In VFO/Frequency mode, sets [A] or [B] to the VHF or UHF band.**
34	TDR-AB - Transmit selection while in Dual Watch mode	MENU+34		OFF A band transmit (Upper row frequency) B band transmit (Bottom row frequency) ***When enabled, priority is returned to selected display once the signal in the other display disappears.**
35	STE - Squelch Tail Elimination	MENU+35		ON OFF ***This function is used eliminate squelch tail noise between pofung handhelds that are communicating directly (no repeater). Reception of a 55 Hz or 134.4 Hz tone burst mutes the audio long enough to prevent hearing any squelch tail noise.**
36	RP-STE-Squelch Tail Elimination	MENU+36		OFF/ 1,2,3…10 ***This function is used eliminate squelch tail noise when communicating through a repeater.**
37	RPT-RL - Delay the squelch tail of repeater	MENU+37		OFF/ 1,2,3…10 ***Delay the Tail Tone of Repeater (X100 milliseconds)**
38	PONMSG-Power On Message	MENU+38		FULL: Performs an LCD screen test at power-on MSG : Displays a 2-line power on message ***Controls the behavior of the display when the transceiver is turned on.**
39	ROGER - Roger Beep	MENU+39		OFF ON ***Sends an end-of-transmission tone to indicate to other stations that the transmission has ended.**
40	RESET – Restore defaults	MENU+40		VFO: Menu initialization ALL: Menu and channel initialization ***Resets the radio to factory defaults, with some exceptions.**
41	R-TONE–Repeater Tone	MENU+41		1000Hz/1450Hz/1750Hz/2100Hz ***To send out a repeater tone; You hold down the [PTT] + [SOS] key.**

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