

**BAOFENG<sup>®</sup>**

UV-25 SERIES



**Amateur Radio**

***OWNER'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.

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## Chapter1. Getting Started

### 1.1 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 2014/53/EU. All applicable EU regulations are regarded (2006/66/EC, 2011/65/EU, (EU)2015/863, 2012/19/EU).

**NOTE: It can be operating under 2000m.**

**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.

**Please note that the above information is applicable to EU countries only.**

#### 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 2.5cm 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.

### **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°C~40°C. 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 parts 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.

## **1.2 Main features**

- Frequency range: FM radio 65-108 MHz; 144-146MHz (RX&TX) ; 430-440MHz (RX&TX)
- One touch search frequency, easy pairing and grouping (copying channel configuration parameters)
- Frequency step, selectable between 2.5K | 5.0K | 6.25K | 10.0K | 12.5K | 20.0K | 25.0K | 50.0K
- Frequency hopping to keep your call privacy confidential
- 1.77" TFT large screen, full keyboard, fully open menu operation
- Channel scan, frequency scan, and three scan and recovery methods: TO, CO, and SE
- Up to 999 memory channels.
- Power-on password management function
- DTMF encoder and DTMF manual dial
- VOX (voice activated transmit).
- Alarm function.
- High, middle or low power selectable.
- Programmable repeater offset.
- Transmission time-out timer.
- Ten (10) levels of Squelch adjustment.
- End of transmission tone, aka "Roger Beep"
- Broadcast FM radio receiver 65-108 MHz
- Dual watch / Dual reception/ Dual-band handheld transceiver
- High Capacity Lithium-Ion battery.
- Stopwatch function
- Display illumination programmable via keypad.
- Function beep on the keyboard.
- Battery save function.
- Busy channel lock out.
- Two (2) pins for Kenwood accessory port

### 1.3 Content of the packaging

- 1 Radio
- 1 Fast desktop charger
- 1 Li-Ion battery pack
- 1 Antenna

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

## Chapter 2. Charging the Battery

### 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 our company. 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

- Do not short the battery terminals or throw the battery into a fire. Never attempt to remove the casing from the battery pack, as our company cannot be held responsible for any accident caused by modifying the battery.
- The ambient temperature should be between 5°C-40°C (40°F - 105°F) while charging the battery. Charging outside this range may not fully charge the battery.
- Please turn off the radio before inserting it into the charger. It may otherwise interfere with correct charging.
- 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.
- 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.
- 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**

To charge batteries in radio:

- a. Insert the random original adapter into the AC socket, and then insert the adapter cable into the Type-C jack on the back of the battery.
- b. Ensure good contact between the Type-C jack of the battery and the charging terminal of the cable. The indicator light on the back of the battery turns red - charging begins.
- c. It takes approximately 2-5 hours to fully charge the battery. The indicator light turns green - charging is complete.

When the indicator light on the back of the battery lights up green, it indicates that charging is complete. Remove the cable from the Type-C port of the battery.

***Baofeng recommends your radio is turned off while being charged.***

### **2.5 LED Indicator**

<b>STATUS</b>	<b>LED</b>
Charge Normally	Red
Fully Charged	Green

***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.

## Chapter3. 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/ Removing the Antenna

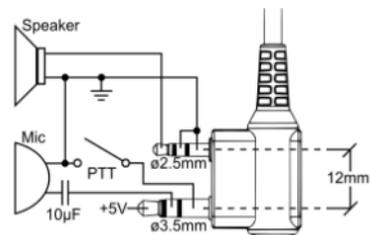
- a. Installing the Antenna: Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.
- b. Removing the Antenna: Turn the antenna counter-clockwise to remove it.

### 3.2 Accessory jack

The accessory jack on the Baofeng UV25 is a Kenwood compatible two (2)-pin design.

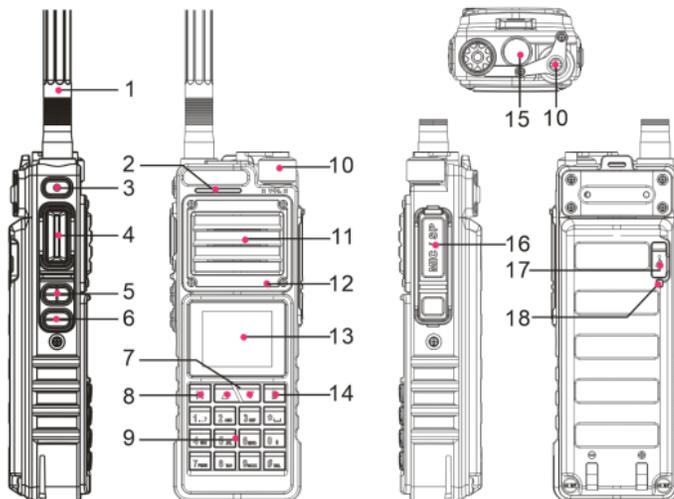
Typical 2 pin Kenwood headset configuration.

- To attach accessories such as headsets, speaker-mics or programming cables, align the connectors and push in fully.
- The fit isn't always perfect on cheap or clone cables and connectors and may require a bit of force to wiggle them in completely.
- Make sure the radio is off before attaching any accessories.



## Chapter4. Radio Overview

### 4.1 Buttons and controls of the radio



1. Antenna

4. PTT key

7. ▲ or ▼ navigation keys

10. Power/Volume knob

13. Color LCD

16. Accessory jack

2. Status LED

5. **SK2**- Broadcast FM/Monitor key

8.  Key (Menu and VFO/MR mode key)

11. Speaker

14.  Key (Exit and A / B select key)

17. Type-C charging port

3. **SK1**- Weather and search frequency key

6. **SK3**- Flashlight and Alarm key

9. Numeric keypad

12. Microphone (MIC Input)

15. LED Flashlight

18. Type-C charging indicator

## 4.2 LCD Display

Icon	Description
RSSI	Squelch Open/ Close Indicator
H/M/L	Transmit power level indicator, According to Power (High/Middle/Low)
	Make sure you can hear the DTMF side tone from the radio speaker, set to DT-ST, ANI-ST, DT+ANI.
	DCS enabled
	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
	VOX enabled
	The confidential calling feature is activated
N	Narrowband enabled
	Battery level indicator
R	Reverse function enabled
	Indicates active band or channel

### 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

- **Side key 1 (One touch search frequency Alarm)**

Press and hold the [SK1] key to activate the frequency search function and enter the search display interface

- **Side key 2 (Broadcast FM and Monitor)**

Press [SK2] key momentarily to start the broadcast FM receiver. Another momentary press turns the broadcast FM receiver off. If a signal is received on the active frequency or channel while you are listening to the broadcast FM, the receiver will open squelch to that frequency (as if scanning) and remain there until the signal goes away; it will then switch back to broadcast FM.

Press and hold [SK2] to monitor the signal. This will open up the squelch so you can listen to the unfiltered signal.

- **Side key 3 (Flashlight and Alarm)**

Press [SK3] key momentarily to turn on the LED flashlight. Another momentary press will flash the LED. Another momentary press turns the flashlight off.

Press and hold [SK3] key to activate the alarm function. Press [SK3] (a short press) again to turn it off

- **☰ key**

It is used for activating the MENU, choose each MENU selection and confirm the parameter.

In standby mode, press and hold the key to switch between frequency (VFO) mode and channel (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.

- **☰ key**

press to exit the Menu and functions. A/B (appears on the display): press to select the desired frequency (VHF or UHF) in the main or secondary display. Press and hold the ☰ key to activate the one-touch search function.

- **Numeric keypad**

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

- **Star \* Key**

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

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

- **Pound # Key**

Press the [#z] key to activate the DTMF dial function.

Press and hold the [#z] key to activate the channel scan or frequency scan function.

In FM radio mode, press the [#z] key to automatically search for broadcast programs.

## Chapter5. 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.

*By using the monitor function, enabled from the [FM broadcast/Monitor] key below the PTT, you can more easily adjust your volume by adjusting it to the un-squelched static.*

## 5.3 Main Band/Sub Band Select

In standby mode, press the  key to switches between A (upper) and B (lower) displays. The frequency or channel on the selected display becomes the active listening and transmit frequency or channel.

To save frequencies to channel memory you must be on the A display.

## 5.4 VFO/Channel Switch

Press and hold the  key to switch between VFO and channel display.

- In channel mode (MR), the channel number will be displayed on the right.
- In frequency mode (VFO), the 'VFO' will be displayed on the right.

## 5.5 Frequency (VFO) mode

In Frequency (VFO) mode you can navigate up and down the band by using the  or  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 436.61250 MHz on display A**

**(1)** In standby mode, press and hold the  key to switch to the frequency (VFO) mode.

**(2)** Enter **[4][3][6][6][1][2][5] [0]** on the numeric keypad.

### **WARNING!**

*Just because you can program in a channel does not mean you're automatically authorized to use that frequency.*

*Transmitting on frequencies you're not authorized to operate on is illegal, and in most jurisdictions a serious offence.*

*However, it is legal in most jurisdictions to listen. Contact your local regulatory body for further information on what laws,*

*rules and regulations apply to your area.*

## 5.6 Channel (MR) mode and 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 ▲ or ▼ keys or the encoder.

Ultimately which mode you end up using will depend entirely on your use case.

Press and hold  key to switch the radio between VFO and Channel mode, select Channel mode.

- **Operation 1:** Press the ▲ or ▼ navigation key to select the channel.
- **Operation 2:** Input the channel numbers by the keyboard. For example, if you want switch to channel 12, input [0][1][2] a total of 3 digits, and it will switch to channel 12.

*When the voice prompt function is enabled, the corresponding channel will be broadcast by voice.*

## 5.7 Making a call

*NOTE: Press the  key to switch the main channel to the other channel if there are 2 channels shown on the display. In standby mode, press and hold the  key to switch between frequency (VFO) mode and channel (MR) 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. Making a call, the red LED is on.
- **Frequency mode call:** Press and hold the  key to switch to the frequency mode, input the working frequency within the allowable frequency range, and press and hold the [PTT] key to transmit on the current frequency. Speak into the microphone with normal tone. Making 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.*

## 5.8 Emergency Alert

The Emergency Alert feature can be used to signal members in your group for help.

To activate the emergency alert function, press and hold the **[SK3]** key for 3 seconds. The radio will send out a loud siren sound and the flashlight will flash.

Press the **[SK3]** key to exit the emergency alert function.

*WARNING: The Emergency Alert feature should only be used in the event of an actual emergency.*

## 5.9 FM Radio (FM)

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

**(1)** In frequency or channel mode, Press **[SK2]** key to turn on the radio.

**(2)** Select the desired radio frequency with the  $\blacktriangle$  or  $\blacktriangledown$  keys or input the frequency. Or

- Press  to automatically search a radio station.

**(3)** Press **[SK2]** key to exit FM radio.

*Note: while you are listening to the radio, the frequency or channel of A / B receiving signal will automatically switch to the frequency or channel mode for normal transmitting and receiving.*

*When the signal disappears the radio will automatically switch again to FM radio mode.*

## 5.10 Monitor

In standby, press and hold the **[SK2]** key to enter Monitor. When receiving matched carrier but the signaling or the signal is too weak, this function allows monitor the weak signal.

Stop pressing the **[SK2]** key to turn off the speakers and return to standby mode.

» *If no signal, it will emit noise when press the [SK2] Key.*

## 5.11 Keypad lock

The radio features a keypad lock that locks out all keys except for the three side keys.

To enable or disable the keypad lock, press and hold  the key for about two seconds.

You can also enable so that the radio automatically locks the keypad after ten seconds from the menu.

## 5.12 Frequency reversal

A short momentary press of the key enables the reverse function

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

» *After activating the frequency reversal function, the first line of the screen displays "R"*

## 5.13 TX Repeaters tone

Press [PTT] + [SK3] key 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.*

## 5.14 One touch frequency Search

(1) The radio will act as a receiver. Press and hold the [SK1] key, and the screen will display "SEARCH SEARCH..."

(2) If the transmitter continues to transmit and the unit receives an effective frequency (the strongest and stable signal), the received frequency will be displayed. If there is a CTCSS or DCS, the CTCSS or DCS value is displayed, and if there is no CTCSS or DCS, NONE is displayed

(3) You can press the  key to save the Search frequency and CTCSS or DCS to the channel.



*Note: During frequency Search, press the  key on the radio to switch between UHF or VHF bands.*

# Chapter6. Advanced Features

## 6.1 Working the menu system

For a complete reference on available menu items and parameters, see Appendix B, Menu definitions.

*If your radio is set to Memory (MR) mode, the following menu items will not take any effect: STEP, TXP, W/N, CTCSS, DCS, S-CODE, PTT-ID, BCL, SFT-D, OFFSET, MEM-CH.*

### 6.1.1 Basic use

#### Using the menu with arrow keys

- a. Press the  key to enter the menu.
- b. Use the  /  keys to navigate between menu items.
- c. Once you find the desired menu item, press  again to select that menu item.
- d. Use the  /  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  and it will save your setting and bring you back to the main menu.
  - b). To cancel your changes, press  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 key.

### 6.1.2 Using short-cuts

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

The menu is also organized in such a way that the ten most common functions are on top.

The parameters also have a number associated with them, see Appendix B, *Menu definitions* for details.

#### Using the menu with short-cuts

- a. Press the  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  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  and it will save your setting and bring you back to the main menu.
  - b). To cancel your changes, press  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  key.

g. All further examples and procedures in this manual will use the numerical menu shortcuts.

## 6.2 Scanning

The Radios features a built in scanner for the VHF and UHF bands. When in Frequency (VFO) mode it will scan in steps according to your set frequency step. In Channel (MR) mode it will scan your channels. At approximately three frequencies per second, it's not the fastest scanner in the world, but it is nonetheless a useful feature to have at times.

Dual Watch is inhibited while scanning

To enable the scanner, press and hold the  key for about two seconds. Press and hold the  key to exit scanning mode.

### 6.2.1 Scanning modes

The scanner is configurable to one of three ways of operation: Time, carrier or search, each of which is explained in further details in their respective section below.

#### Setting scanner mode

- a. Press the  key to enter the menu.
- b. Enter 2 1 on your numeric keypad to come to scanner mode.
- c. Press the  key to select.
- d. Use the  /  keys to select scanning mode.
- e. Press the  key to confirm and save.
- f. Press the  key to exit the menu.

#### • Time operation

In Time Operation (TO) mode, the scanner stops when it detects a signal, and after a factory preset time out, it resumes scanning.

#### • Carrier operation

In Carrier Operation (CO) mode, the scanner stops when it detects a signal, and after a factory preset time with no signal it resumes scanning.

#### • Search operation

In Search Operation (SE) mode, the scanner stops when it detects a signal.

To resume scanning you must press and hold the **#z** key again.

### 6.2.2 Frequency scanning

This function can scan the frequency.

- a. In frequency mode, press **#z** 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 **▲/▼** keys.
- c. Press **#z** key to stop the scanning.

*Note: for Scan mode, see Menu No.21.*

### 6.2.3 Channel scanning

This function can scan the channels.

- a. In channels mode, press **#z** 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 **▲/▼** keys.
- c. Press **#z** key to stop scanning.

*Note: for Scan mode, see Menu No.21.*

### 6.2.4 Scan CTCSS

The function allows scanning the frequencies with CTCSS tone enabled.

- a. In standby mode, press **≡ [1][4]**, “Scan CTCSS” will appear on the display.
- b. Press **≡** key and the scan of CTCSS tones will start.

*NOTES: The function cannot be activated when the radio is set in Channel mode. The Scan will start only when the receiving band will detect a signal.*

### 6.2.5 Scan DCS

This function allows scanning the frequencies with DCS code enabled.

- a. In standby mode, press **≡ [1][5]**; the display will show “Scan DCS”.
- b. Press **≡** key and the scan of DCS codes will start.

*NOTES: The function cannot be activated when the radio is set in Channel mode. The Scan will start only when the*

receiving band will detect a signal.

### 6.3 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 radios features 999 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 <sup>1</sup> .

#### Frequency Mode vs. Channel Mode

In standby mode, press and hold the  key to switch between frequency (VFO) mode and channel (MR) 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 = **432.55000** MHz

TX = **437.55000** MHz (This is a (+ 5) Offset)

TX CTCSS tone 123.0

- a. Press the  key to switch between menus.
- b. Press and hold the  key to set the radio to VFO mode, and the VFO icon is displayed on the right.
- c.  [3][1]  [1] [0]   **Deletes Prior Data in channel (Ex. 10)**
- d.  [1][2]  123.0   **Selects desired TX encode tone**
- e. Enter RX frequency (Ex. **43255000**)
- f.  [3][0]  [1][0]   
-->> **Enter the desired channel (Ex 10)**  
**RX has been added**
- g. Enter TX frequency (Ex. **43755000**)
- h.  [3][0]  [1][0]  **Enter the same channel (Ex 10)**

-->> 

**TX has been added**

i. Press and hold the  key to return to the MR mode and the channel number will reappear.

## Ex 2. Programming a Simplex Channel with CTCSS tone

EXAMPLE New memory in Channel 10:

RX = **432.6625** MHz

TX CTCSS tone 123.0

a. Press the  key to switch between menus.

b. Press and hold the  key to set the radio to VFO mode, and the VFO icon is displayed on the right.

c.  [3][1]  [1][0] 

**Deletes Prior Data in channel (Ex. 10)**

d.  [1][2]  123.0 

**Select desired TX encode tone (Ex 123 CTCSS)**

-->>Use  to select Upper display

e. Enter RX frequency (Ex. 43266250)

f.  [3][0]  [1][0] 

**Enter the desired channel (Ex 10)**

-->> 

**Channel has been added**

g. Press and hold the  key to return to the MR mode and the channel number will reappear.

## 6.4 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. Press and hold the  key to set the radio to VFO mode, and the VFO icon is displayed on the right.

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

c. Press the  key to enter the menu.

d. Enter [2][9] on the numeric keypad to get to frequency offset.

e. Press  key to select.

f. Use the numerical keypad to enter the specified frequency offset. See the section called “**29 OFFSET** - Frequency shift amount” for details.

g. Press  key to confirm and save.

- h. Enter **[2][8]** on the numeric keypad to get to offset direction.
- i. Use the **▲/▼** keys to select + (positive) or - (negative) offset.
- j. Press **■** key 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 **■** key 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 radios, 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 **★a** 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.*

## **6.5 VOX**

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

In standby mode, press **■** + 7. The screen will display “**VOX**”.

Press **■** key to enter the function. Press the **▲/▼** keys to turn off the VOX function or to select the VOX level (1-10), then press **■** key to confirm.

To return to the standby mode press **■** key.

**NOTE: level 1 is the least sensitive while level 9 is the most sensitive. When the radio is in Scan or FM Radio mode, the VOX is not enabled.**

## 6.6 Dual Watch

In certain situations, the ability to monitor two channels at once can be a valuable asset. This can be achieved in one of two ways. You can either have one receiver in your radio and flip-flop between two frequencies at a fixed interval (known as Dual Watch), or you can equip a radio with two receivers (known as Dual Receive or Dual VFO). The former method is cheaper to implement and far more common than the latter.

The Radios features Dual Watch functionality (single receiver) with the ability to lock the transmit frequency to one of the two channels it monitors.

### Enabling or disabling Dual Watch mode

- a. Press the  key to enter the menu.
- b. Enter 7 on the numeric keypad to get to **Dual Watch**.
- c. Press  key to select.
- d. Use the  /  keys to enable or disable.
- e. Press the  key to confirm.
- f. Press the  key to exit the menu.

## 6.7 Stopwatch timer

In standby mode, press  + 44. The screen displays “STOP WATCH”.

Press  to enter the function. Press the  /  keys to enable (ON) the function, then press  key for confirmation.

To return to the standby mode press  key.

Using the stopwatch timer:

When this function is ON, press  key to start counting; Press  key again to re-start counting.

To exit the function, stop the counting first, and then press the  key.



## 6.8 Scrambler

The scrambler is designed to protect communications. This feature prevents parties of other networks from hearing and understanding your voice communications.

In standby mode, Press **[MENU]** + 45. The screen displays “**SCRAMBLE**”.

Press **[MENU]** to enter the function. Press the **▲/▼** keys to select the scramble mode (between MODE1 and MODE3) to activate the scramble function.

“**SCR**” icon will appear on the display.

## 6.9 DTMF

DTMF is an in-band signaling method using dual sinusoidal signals for any given code. Originally developed for telephony systems, it has proved a very versatile tool in many other areas.

In two-way radio systems, DTMF is most commonly used for automation systems and remote control. A common example would be in amateur radio repeaters where some repeaters are activated by sending out a DTMF sequence (usually a simple single-digit sequence).

### DTMF frequencies and corresponding codes

	1209Hz	1336Hz	1477Hz	1633Hz
697Hz	1	2	3	A
770Hz	4	5	6	B
852Hz	7	8	9	C
941Hz	*	0	#	D

The radios has a full implementation of DTMF, including the A, B, C and D codes.

The numerical keys, as well as the **\*[M]**, and **#[Z]** keys correspond to the matching DTMF codes as you would expect. The A, B, C and D codes are located in the **[M]**, **▲**, **▼** and **[Z]** keys respectively.

To send DTMF codes, press the key(s) corresponding to the message you want to send while holding down the PTT key.

*If you have the keypad lock enabled on your radio, you can still send DTMF tones the regular way without having to unlock your radio.*

## 6.10 Customization

The radio allows you to define visual and audible features such as Display Illumination Time, MR/Channel Mode Display Format, Power On Message, Power On password, Keypad Beep, Roger Beep, Voice Prompt, etc. to suit your usage habits.

### **6.10.1 Display backlight (ABR) - MENU 7**

In standby mode, press **⏻** + 7. The screen will display “**ABR**”.

Press **⏻** key to enter the function. Press the **▲/▼** keys to select the always on/required delay time (ON/5sec/5sec/10sec/15sec/20sec) the backlight of the display, then press **⏻** key to confirm.

To return to the standby mode press **⏻** key.

### **6.10.2 Beep PROMPT (BEEP) - MENU 8**

If you enable this function, every time a key is pressed, you will hear a Beep tone.

In standby mode, press **⏻** + 8. The screen will display “**BEEP PROMPT**”.

Press **⏻** key to enter the function. Press the **▲/▼** keys to turn ON/OFF the beep function.

Press **⏻** key to confirm and exit to return to stand-by mode.

### **6.10.3 Voice function (VOICE) - MENU 17**

In standby mode, press **⏻** + 17; the screen will display “**VOICE**”.

Press **⏻** key to enter the function. Press the **▲/▼** keys to select OFF/ON. Confirm your selection by pressing MENU.

To return to the standby mode press **⏻** key.

### **6.10.4 Language of the MENU (LANGUAGE) - MENU 18**

This section shows the language of the MENU (English).

In standby mode press **⏻** + 18. The display will show “**LANGUAGE**”.

### **6.10.5 Working Mode (MDF-A) - MENU 24**

The radio has four working modes available:

- Frequency mode (FREQ)
- Channel mode (CH)
- Channel name (NAME)

To shift from one mode to another one:

In Standby mode press **⏻** + 24; select the desired working mode with the **▲/▼** keys.

Press  key again to confirm your selection.

### **6.10.6 Roger Beep, end Transmission Tone (ROGER) - MENU 36**

Roger Beep can be enabled/disabled:

- OFF: Roger Beep disabled
- ON: Roger Beep tone at the end of transmission

In standby mode, press  + 36; the screen will display “**ROGER**”.

Press  to enter the function. Press the  /  keys to select OFF/ON. Confirm your selection by press  key.

To return to the standby mode press  key.

### **6.10.7 Power On Message (POWER ON MSG) - MENU 40**

With this Menu you can customize the welcome message that appears on the display when the radio is switched on.

Choose amongst the following options:

- VOLTAGE (the power voltage is momentarily displayed)
- MESSAGE (welcome message)
- LOGO (Custom Pictures)
- MODEL NAME (the model name of the radio will be displayed)

In Standby mode press  + 40. The display will show “**POWER ON MSG**”.

Press  key to enter the function. Press the  /  keys to select the desired option and confirm with MENU.

To return to the standby mode, press  key.

### **6.10.8 Power On Password (Power On Password) - Menu 43**

With this Menu you can request the correct password when the radio is turned on.

In standby mode, press MENU + 43. The display will show “**POWER ON PWD**”

Press  key to enter the function. Press the  /  keys to enable/disable (ON/OFF) the power on password and confirm with MENU.

To return to standby mode, press  key.

*Enable the power on password function. Each time the radio is turned on, it will display "Input Password" to prompt for the correct password.*

## **6.11 Reset - MENU 42**

This transceiver has two Reset modes available: VFO and ALL.

- Reset VFO: all the settings except channels will return to the default settings.
- Reset ALL: all settings will return to the default settings.

### **Reset VFO**

In standby mode, press **[M]** + 42; the screen will display "RESET".

Press **[M]** to enter the function. Press the **[▲]** / **[▼]** keys to select VFO, then press **[M]** to confirm.

The display will show "Sure to reset? ". Press **[M]** again to confirm and the screen will display "Wait\*\*\*". Then, the transceiver will turn off and reboot again.

### **Reset ALL**

In standby mode, press **[M]** + 42. The screen displays "RESET".

Press **[M]** to enter the function. Press the **[▲]** / **[▼]** keys to select ALL, then press **[M]** to confirm.

The display will show "Sure to reset? ". Press **[M]** again to confirm; the screen will display "Wait\*\*\*". Then, the transceiver will turn off and reboot again.

## 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.

**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. - Shortcut Menu operations

MENU	Name (Full Name)	Settings	Description
0	SQL - Squelch Level	[0 - 9] Setting the squelch to 0 will open up the squelch entirely.	Squelch silences the receiver when there is no signal. - Sensitivity can be varied from .1 to .3 mV on UHF Sensitivity can be varied from .1 to .2 mV on VHF
1	STEP - Step Frequency	2.5K[0]   5.0K[1]   6.25K[2]   10.0K[3]   12.5K[4]   20.0K[5]   25.0K[6]   50.0K[7]	Selects the amount of frequency change in VFO/Frequency mode when scanning or pressing the ▲/▼ keys.
2	TXP - Transmit Power	HIGH [0]   MIDDLE[1]   LOW [2]	Selects between HIGH, MIDDLE and LOW transmitter power when in VFO/Frequency mode. Use the minimum transmitter power necessary to carry out the desired communications.
3	SAVE - Battery Save	OFF [0]   1   2   3   4	Selects the ratio of sleep cycles to awake cycles (1:1, 2:1, 3:1, 4:1). The higher the number the longer the battery lasts. The higher number increases the RX sleep cycle, but you may miss the first few syllables before the RX opens.
4	VOX - Voice Operated TX	OFF [0]   1   2   3   4   5   6   7   8   9   10	When enabled it is not necessary to press the [PTT] key on the transceiver. Adjust the gain level to an appropriate sensitivity to allow smooth transmission.
5	WN - Wideband / Narrowband	WIDE [0]   NARR [1]	Wideband (25 kHz bandwidth) or narrowband (12.5 kHz bandwidth).
6	ABR - Display Illumination Time	ON [0]   1   2   3   4   5   6   7   8   9   10	Time-out for the LCD backlight. (seconds)
7	TDR - Dual Watch, Dual Reception	OFF [0]   ON [1]	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	OFF [0]   ON [1]	Allows audible confirmation of a key press
9	TOT- Transmission Time-out-Timer	OFF [0] 15[1] - 180[12] in 15 second steps (TIMEOUT-15)/15=[n]	*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-CTCS - Receiver CTCSS	OFF [0]   see CTCSS Table in Appendix C	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.
11	R-DCS - Receiver DCS	OFF [0]   see DCS Table in Appendix C	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.
12	T-CTCS - Transmitter CTCSS	OFF [0]   see CTCSS Table in Appendix C	Transmits a specific and continuous sub audible signal to unlock the squelch of a distant receiver (usually a repeater).
13	T-DCS -Transmitter DCS	OFF [0]   see DCS Table in Appendix C	Transmits a specific low-level digital signal to unlock the squelch of a distant receiver (usually a repeater).
14	Scan CTCSS	OFF	Allows scanning of CTCSS in VFO frequency mode. This operation is not allowed in channel mode.
15	Scan DCS	OFF	Allows scanning of DCS in VFO frequency mode. This operation is not allowed in channel mode.
16	CDCSS SAVE MODE	ALL[0]   RX[1] TX[2]	Save the scanned CTCSS/DCS in VFO mode. <ul style="list-style-type: none"> <li>•ALL: Save to R-CDCSS and T-CDCSS</li> <li>•TX: Save to T-CDCSS only</li> <li>•RX: Save to R-CDCSS only</li> </ul>

17	VOICE - Voice Prompt	OFF [0]   ON [1]	Allows audible voice confirmation of a key press
18	LANGUAGE - Language selection	ENGLISH [0]   中文 [1]	Set the language type of menu and prompt voice. •ENGLISH: Display as an English menu with English prompts for operation. •Chinese: Display as a Chinese menu and prompt for operation in Chinese.
19	DTMFST - DTMFST	<ul style="list-style-type: none"> <li>•OFF [0]: No DTMF Side Tones are heard</li> <li>•DT-ST [1]: Side Tones are heard only from manually keyed DTMF codes</li> <li>•ANI-ST [2]: Side Tones are heard only from automatically keyed DTMF codes</li> <li>•DT+ANI [3]: All DTMF Side Tones are heard</li> </ul>	Determines when DTMF Side Tones can be heard from the transceiver speaker.
20	S-CODE - Signal Code	1[0]   2[1]   3[2]   4[3]   5[4]   6[5]   7[6]   8[9]   9[8]   10[9]   11[10]   12[11]   13[12]   14[13]   15[14]	Selects 1 of 15 DTMF codes. The DTMF codes are programmed with software and are up to 5 digits each.
21	SC-REV - Scanner Resume Method	<ul style="list-style-type: none"> <li>•TO [0]: Time Operation - scanning will resume after a fixed time has passed</li> <li>•CO [1]: Carrier Operation - scanning will resume after the signal disappears</li> <li>•SE [2]: Search Operation - scanning will not resume</li> </ul>	Scanning Resume Method
22	PTT-ID - When to send the PTT-ID	<ul style="list-style-type: none"> <li>•OFF [0]: No ID is sent</li> <li>•BOT [1]: The selected S-CODE is sent at the beginning</li> <li>•EOT [2]: The selected S-CODE is sent at the ending</li> <li>•BOTH [3]: The selected S-CODE is sent at the beginning and ending</li> </ul>	When to Send PTT-ID Codes are sent during either the beginning or ending of a transmission.
23	PTT-LT - Signal code sending delay	0[0]   100[1]   200[2]   400[3]   600[4]   800[5]   1000[6]	PTT-ID Delay (milliseconds)

24	MDF-A - Channel Mode A Display	<ul style="list-style-type: none"> <li>•CH [0]: Displays the channel number</li> <li>•NAME [1]: Displays the channel name.</li> <li>•FREQ [2]: Displays programmed Frequency</li> </ul>	[A] MR/Channel Mode Display Format <b>Note: Names must be entered using software.</b>
25	MDF-B - Channel Mode B Display	<ul style="list-style-type: none"> <li>•CH [0]: Displays the channel number</li> <li>•NAME [1]: Displays the channel name.</li> <li>•FREQ [2]: Displays programmed Frequency</li> </ul>	[B] MR/Channel Mode Display Format <b>Note: Names must be entered using software.</b>
26	BCL - Busy Channel Lock-out	OFF [0]   ON [1]	Disables the [PTT] key on a channel that is already in use. The transceiver will sound a beep tone and will not transmit if the [PTT] key is pressed when a channel is already in use.
27	AUTOLK – Automatic Keypad Lock	OFF [0]   5 [1]   10 [2]   15 [3]	Set the automatic keyboard lock delay time. To prevent the keyboard from being accidentally triggered. When turned on, if the keyboard is not used within a predetermined delay time, the keyboard will be locked. Pressing the  key for 2 seconds will unlock the keypad.
28	SFT-D - Frequency Shift Direction	<ul style="list-style-type: none"> <li>•OFF [0]: TX = RX (simplex)</li> <li>•+ [1]: TX will be shifted higher in frequency than RX</li> <li>•- [2]: TX will be shifted lower in frequency than RX</li> </ul>	Enables access of repeaters in VFO/Frequency Mode
29	OFFSET - Frequency shift amount	00.000 - 69.990 in 10 kHz steps	Specifies the difference between the TX and RX frequencies
30	MEMCH - Store a Memory Channel	001 - 999	This menu is used to either create new or modify existing channels (001 through 999) so that they can be accessed from MR/Channel Mode.
31	DELCH - Delete a memory channel	001 - 999	This menu is used to delete the programmed information from the specified channel (001 through 999) so that it can either be programmed again or be left empty.

32	AL-MOD - Alarm Mode	<ul style="list-style-type: none"> <li>•SITE [0]: Sounds alarm through your radio speaker only</li> <li>•TONE[1]: Transmits a cycling tone over-the-air</li> <li>•CODE [2]: Transmits '119' (911 in reverse) followed by the ANI code over-the-air</li> </ul>	<ul style="list-style-type: none"> <li>•SITE: Sounds alarm through your radio speaker only</li> <li>•TONE: Transmits a cycling tone over-the air</li> <li>•CODE: Transmits '119' (911 in reverse?) followed by the ANI code over-the-air</li> </ul>
33	STE - Squelch Tail Elimination	OFF [0]   ON [1]	This function is used eliminate squelch tail noise between BaoFeng 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.
34	RP-STE - Squelch Tail Elimination	OFF [0]   1 - 10	This function is used eliminate squelch tail noise when communicating through a repeater.
35	RPT-RL - Delay the squelch tail of repeater	OFF [0]   1 - 10	Delay the Tail Tone of Repeater (X100 milliseconds)
36	ROGER - Roger Beep	OFF [0]   ON [1]	Sends an end-of-transmission tone to indicate to other stations that the transmission has ended.
37	TONE-Tone-burst	1000[0]   1450[1]   1750[2]   2100[3]	To send out a tone-burst; you simultaneously will press a key while holding down the PTT. No further configuration required using this feature.
38	MENU EXIT TIME	5 [0] 10[1] - 60[10] in 5 second steps (TIMEOUT-5)/5=[n]	The time setting for menu exit without menu operation.
39	VOX DELAY	0.5 [0] 0.6[1] -2.0[15] in 0.1 second steps (TIMEOUT-0.1)/0.1=[n]	There's a brief delay between when you finish talking and the radio returns to tx mode; this delay can be adjusted.
40	POWER ON MSG - Power On Message	LOGO[0]   VOLTAGE[1]	Welcome message displayed immediately after startup. The LOGO is programmed by the manager.
41	VOICEPRI - Frequency hopping system	OFF [0]   ON [1]	Activate the frequency hopping function to prevent interference from outside the group
42	RESET - Restore defaults	VFO [0]   ALL [1]	Resets the radio to factory defaults, with some exceptions.

43	POWER ON PWD -Power on password	OFF [0]   ON [1]	Activate the radio power-on password. You must enter the correct password to turn on the radio
44	STOP WATCH	ON	Activate the stopwatch function. Press the  key to start timing.
45	SCRAMBLE	OFF [0]   ON [1]	Scramble is a voice inversion function that enables private communication by scramble voice signals. The SCR icon is displayed when scramble is enabled.
46	VERSION - Version information		Access hardware and firmware information for the radio

## Appendix C. - Technical Specifications

### General

Frequency Range	144-146MHz(Rx&TX) , 430-440 MHz(Rx&TX), FM65-108MHz(Rx)
Channel Spacing	25.0KHz(Wide)/12.5KHz(Narr)
Memory Channel	999 Groups
Operation Voltage	DC 7.4 V $\pm$ 10%
Transmission current	$\leq$ 2800mA
Receive Sensitivity	0.25 $\mu$ V (12dB SINAD)
Rated Audio Power Output	1W @16 ohms
Receive current	$\leq$ 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.**

## EU Declaration of Conformity

Baofeng and Pofung hereby declares that the radio equipment type listed in Technical Specifications is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following link: <http://www.pofung.cn/download.asp?EnBigClassName=EU%20DOC>. Via your local Baofeng helpdesk, your dealer from where you purchased this radio or send an email to [wangjianhui@baofengradio.com](mailto:wangjianhui@baofengradio.com).

## Déclaration de conformité

Baofeng et Pofung déclarent par la présente que le type d'équipement radio répertorié dans les spécifications techniques est conforme à la directive 2014/53/EU. Le texte intégral de la déclaration de conformité de l'UE est disponible sur le lien suivant: <http://www.pofung.cn/download.asp?EnBigClassName=EU%20DOC>. Via votre service d'assistance Baofeng local, votre revendeur chez qui vous avez acheté cette radio ou envoyez un e-mail à [wangjianhui@baofengradio.com](mailto:wangjianhui@baofengradio.com).

## Declaración de conformidad

Baofeng y Pofung declaran por la presente que el tipo de equipo de radio que figura en las Especificaciones técnicas cumple con la Directiva 2014/53 / EU. El texto completo de la Declaración de conformidad de la UE está disponible en el siguiente enlace: <http://www.pofung.cn/download.asp?EnBigClassName=EU%20DOC>. A través de su servicio de ayuda local de Baofeng, su distribuidor donde compró esta radio o envíe un correo electrónico a [wangjianhui@baofengradio.com](mailto:wangjianhui@baofengradio.com).

## Konformitätserklärung

Hiermit erklärt Baofeng und Pofung, dass der in den Technischen Spezifikationen aufgeführte Funkanlagentyp der Richtlinie 2014/53/EU entspricht. Den vollständigen Text der EU-Konformitätserklärung finden Sie unter folgendem Link: <http://www.pofung.cn/download.asp?EnBigClassName=EU%20DOC>. Über Ihren örtlichen Baofeng-Helpdesk, Ihren Händler, bei dem Sie dieses Radio gekauft haben, oder senden Sie eine E-Mail an [wangjianhui@baofengradio.com](mailto:wangjianhui@baofengradio.com).

## Dichiarazione di conformità

Baofeng e Pofung dichiarano con la presente che il tipo di apparecchiatura radio elencato nelle Specifiche Tecniche è conforme alla Direttiva 2014/53/EU. Il testo completo della Dichiarazione di Conformità UE è disponibile al seguente link: <http://www.pofung.cn/download.asp?EnBigClassName=EU%20DOC>. Tramite il tuo helpdesk Baofeng locale, il tuo rivenditore da cui hai acquistato questa radio o invia un'e-mail a [wangjianhui@baofengradio.com](mailto:wangjianhui@baofengradio.com).

			
FR	DE	IT	NL
BE	LU	DK	IE
GB	GR	ES	PT
FI	AT	SE	PL
HU	CZ	CY	SI
SK	LV	LT	EE
BG	RO	MT	HR

### **ATTENTION: conditions of use!**

The band of frequencies on which this device operates is administrated by limitations and/or permissions for their usage. Consequently, in the EU Countries mentioned in the sheet, operators must consult the entrusted authorities. In particular, they must possess a license or a frequency assigned to them by their respective competent authority.

### **ACHTUNG: Nutzungsbedingungen!**

Das Frequenzband, auf dem dieses Gerät betrieben wird, wird durch Beschränkungen und/oder Genehmigungen für deren Nutzung verwaltet. Folglich müssen die Betreiber in den im Blatt genannten EU-Ländern die betrauten Behörden

konsultieren. Sie müssen insbesondere im Besitz einer ihnen von ihrer jeweils zuständigen Behörde zugeteilten Konzession oder Frequenz sein.

### **ATTENTION: conditions d'utilisation!**

La bande de fréquences sur laquelle cet appareil fonctionne est gérée par des limitations et/ou des autorisations pour leur utilisation. Par conséquent, dans les pays de l'UE mentionnés dans la fiche, les opérateurs doivent consulter les autorités compétentes. En particulier, ils doivent être en possession d'une licence ou d'une fréquence qui leur est attribuée par leur autorité compétente respective.

### **ATENCIÓN: condiciones de uso!**

La banda de frecuencias en la que opera este dispositivo está administrada por limitaciones y / o permisos para su uso. En consecuencia, en los países de la UE mencionados en la ficha, los operadores deben consultar a las autoridades encargadas. En particular, deben poseer una licencia o una frecuencia que les asigne su respectiva autoridad competente.

### **ATTENZIONE: condizioni d'uso!**

La banda di frequenze su cui opera questo dispositivo è amministrata da limitazioni e/o permessi per il loro utilizzo. Di conseguenza, nei Paesi UE citati nella scheda, gli operatori devono consultare le autorità preposte. In particolare, devono possedere una licenza o una frequenza assegnata loro dalla rispettiva autorità competente.



**INFORMAZIONE AGLI UTENTI:** Ai sensi dell'art. 13 del decreto legislativo 25 luglio 2005, n.151 "Attuazione delle Direttive 2002/95/CE, 2002/96/CE e 2003/108/CE, relative alla riduzione dell'uso di sostanze pericolose nelle apparecchiature elettriche ed elettroniche, nonché allo smaltimento dei rifiuti". Il simbolo del cassonetto barrato riportato sull'apparecchiatura indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti. L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita agli idonei centri di raccolta differenziata dei rifiuti elettronici ed elettrotecnici, oppure

riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno. L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il riciclo dei materiali di cui è composta l'apparecchiatura. Lo smaltimento abusivo del prodotto da parte dell'utente comporta l'applicazione delle sanzioni amministrative di cui al dlgs. n.22/1997 (articolo 50 e seguenti del dlgs. n.22/1997).

All articles displaying this symbol on the body, packaging or instruction manual of same, must not be thrown away into normal disposal bins but brought to specialised waste disposal centres. Here, the various materials will be divided by characteristics and recycled, thus making an important contribution to environmental protection.

Alle Artikel, die auf der Verpackung oder der Gebrauchsanweisung dieses Symbol tragen, dürfen nicht in den normalen Mülltonnen entsorgt werden, sondern müssen an gesonderten Sammelstellen abgegeben werden. Dort werden die Materialien entsprechend ihrer Eigenschaften getrennt und, um einen Beitrag zum Umweltschutz zu liefern, wiederverwertet.

Todos los artículos que exhiban este símbolo en el cuerpo del producto, en el embalaje o en el manual de instrucciones del mismo, no deben ser desechados junto a los residuos urbanos normales sino que deben ser depositados en los centros de recogida especializados. En estos centros, los materiales se dividirán en base a sus características y serán reciclados, para así poder contribuir de manera importante a la protección y conservación del medio ambiente.

Tous les articles présentant ce symbole sur le corps, l'emballage ou le manuel d'utilisation de celui-ci ne doivent pas être jetés dans des poubelles normales mais être amenés dans des centres de traitement spécialisés. Là, les différents matériaux seront séparés par caractéristiques et recyclés, permettant ainsi de contribuer à la protection de l'environnement.

Όλα τα προϊόντα στα οποία εμφανίζεται το ακόλουθο σύμβολο στο σώμα, τη συσκευασία ή το εγχειρίδιο χρήσης τους, δεν πρέπει να εναποθέτονται στους κοινούς κάδους απορριμάτων αλλά να προσκομίζονται στα ειδικά κέντρα αποκομιδής. Εκεί, τα διάφορα υλικά θα πρέπει να διαχωρίζονται ανάλογα με τα χαρακτηριστικά και τα ανακυκλούμενα υλικά, συμμετέχοντας έτσι ουσιαστικά στην προστασία του

# Elektro- und Elektronikgeräte

## Informationen für private Haushalte

Das Elektro- und Elektronikgerätegesetz (ElektroG) enthält eine Vielzahl von Anforderungen an den Umgang mit Elektro- und Elektronikgeräten. Die wichtigsten sind hier zusammengestellt.

### **1. Getrennte Erfassung von Altgeräten**

Elektro- und Elektronikgeräte, die zu Abfall geworden sind, werden als Altgeräte bezeichnet. Besitzer von Altgeräten haben diese einer vom unsortierten Siedlungsabfall getrennten Erfassung zuzuführen. Altgeräte gehören insbesondere nicht in den Hausmüll, sondern in spezielle Sammel- und Rückgabesysteme.

### **2. Batterien und Akkus sowie Lampen**

Besitzer von Altgeräten haben Altbatterien und Altakkumulatoren, die nicht vom Altgerät umschlossen sind, sowie Lampen, die zerstörungsfrei aus dem Altgerät entnommen werden können, im Regelfall vor der Abgabe an einer Erfassungsstelle vom Altgerät zu trennen. Dies gilt nicht, soweit Altgeräte einer Vorbereitung zur Wiederverwendung unter Beteiligung eines öffentlich-rechtlichen Entsorgungsträgers zugeführt werden.

### **3. Möglichkeiten der Rückgabe von Altgeräten**

Besitzer von Altgeräten aus privaten Haushalten können diese bei den Sammelstellen der öffentlich-rechtlichen Entsorgungsträger oder bei den von Herstellern oder Vertreibern im Sinne des ElektroG eingerichteten Rücknahmestellen unentgeltlich abgeben.

Rücknahmepflichtig sind Geschäfte mit einer Verkaufsfläche von mindestens 400 m<sup>2</sup> für Elektro- und Elektronikgeräte sowie diejenigen Lebensmittelgeschäfte mit einer Gesamtverkaufsfläche von mindestens 800 m<sup>2</sup>, die mehrmals pro Jahr oder dauerhaft Elektro- und Elektronikgeräte anbieten und auf dem Markt bereitstellen. Dies gilt auch bei Vertrieb unter Verwendung von Fernkommunikationsmitteln, wenn die Lager- und Versandflächen für Elektro- und Elektronikgeräte mindestens 400 m<sup>2</sup> betragen oder die gesamten Lager- und Versandflächen mindestens 800 m<sup>2</sup> betragen. Verreiber haben die Rücknahme grundsätzlich durch geeignete Rückgabemöglichkeiten in zumutbarer Entfernung zum jeweiligen Endnutzer zu gewährleisten.

Die Möglichkeit der unentgeltlichen Rückgabe eines Altgerätes besteht bei rücknahmepflichtigen Verreibern unter anderem dann, wenn ein neues gleichartiges Gerät, das im Wesentlichen die gleichen Funktionen erfüllt, an einen Endnutzer abgegeben wird. Wenn ein neues Gerät an einen privaten Haushalt ausgeliefert wird, kann das gleichartige Altgerät auch dort zur unentgeltlichen Abholung übergeben werden; dies gilt bei einem Vertrieb unter Verwendung von Fernkommunikationsmitteln für Geräte der Kategorien 1, 2 oder 4 gemäß § 2 Abs. 1 ElektroG, nämlich „Wärmeüberträger“, „Bildschirmgeräte“ oder „Großgeräte“ (letztere mit mindestens einer äußeren Abmessung über 50 Zentimeter). Zu einer entsprechenden Rückgabe-Absicht werden Endnutzer beim Abschluss eines Kaufvertrages befragt. Außerdem besteht die Möglichkeit der unentgeltlichen Rückgabe bei Sammelstellen der Verreiber unabhängig vom Kauf eines neuen Gerätes für solche Altgeräte, die in keiner äußeren Abmessung größer als 25 Zentimeter sind, und zwar beschränkt auf drei Altgeräte pro Geräteart.

#### **4. Datenschutz-Hinweis**

Altgeräte enthalten häufig sensible personenbezogene Daten. Dies gilt insbesondere für Geräte der Informations- und Telekommunikationstechnik wie Computer und Smartphones. Bitte beachten Sie in Ihrem eigenen Interesse, dass für die Löschung der Daten auf den zu entsorgenden Altgeräten jeder Endnutzer selbst verantwortlich ist.

#### **5. Bedeutung des Symbols „durchgestrichene Mülltonne“**



Das auf Elektro- und Elektronikgeräten regelmäßig abgebildete Symbol einer durchgestrichenen Mülltonne weist darauf hin, dass das jeweilige Gerät am Ende seiner Lebensdauer getrennt vom unsortierten Siedlungsabfall zu erfassen ist.

## EU Declaration of Conformity

### In accordance with EU Directives and Regulations

PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED

Add: Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong  
as the manufacturer, hereby declares under our sole responsibility that  
product(s): Amateur Radio

Model name: UV-25

is in conformity with the essential requirements of the Radio Equipment Directive 2014/53/EU:

Radio EN 303 345-1 V1.1.1 (2019-06)

Article 3.2 EN 303 345-3 V1.1.1 (2021-06)

EN 301 783 V2.1.1 (2016-01)

EMC EN 55032:2015+A1:2020

Article 3.1(b) EN 55035:2017+A11:2020

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A2:2021+AC:2022-01

EN 301 489-1 V2.2.3 (2019-11)

EN 301 489-15 V2.2.1 (2019-04)

Safety

Article 3.1(a) EN IEC 62368-1:2020+A11:2020

Health

Article 3.1(e) EN 50566:2017

The notified body Bay Area Compliance Labs Corp.(BACL) (EU Identification Number: 1313)  
performed a conformity assessment according to Annex III, Module B.

Signed on behalf of PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY  
LIMITED



(Signature of authorized person)

Printed Name: Peter Wang

Title: Manager

Date: 2023-02-21

## Disclaimer

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