

User Manual

20-Channel PLMR Two Way Radio

KETELESE KP01

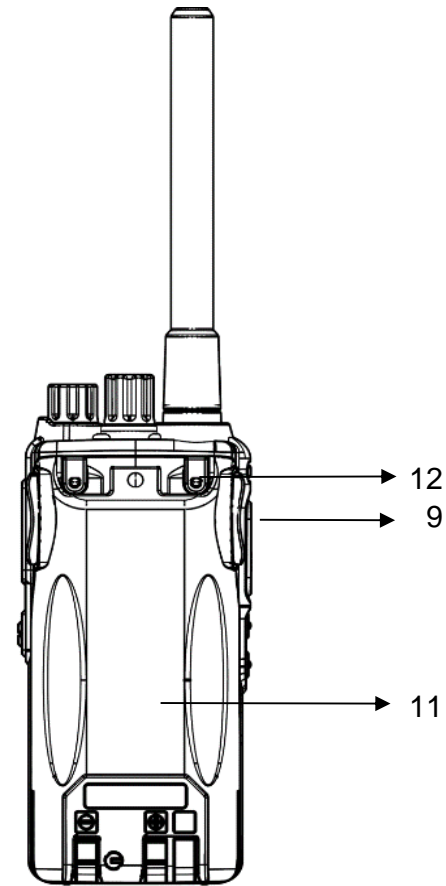
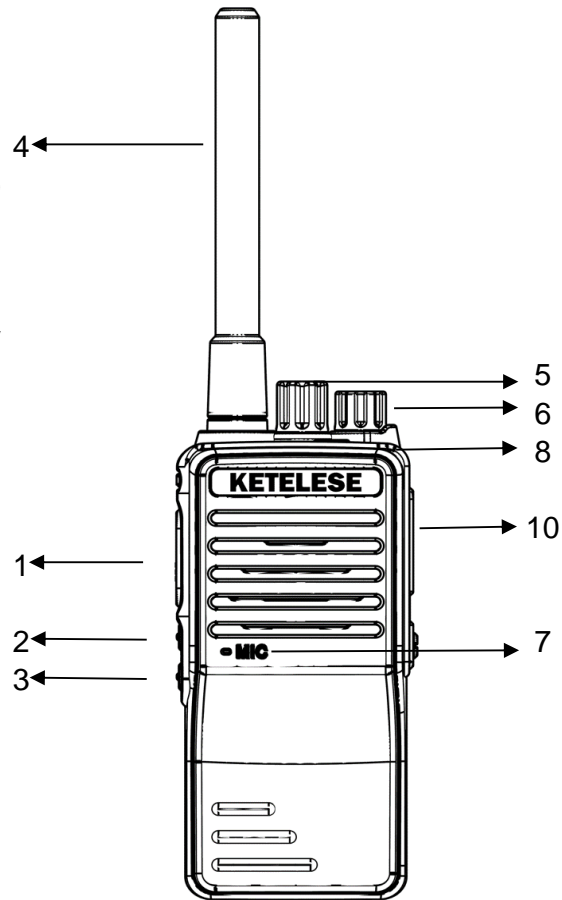
Features

- Frequency(406.100~470.000 MHz)
- 1500mAh Li Polymer Battery
- Voice Announcement
- 20 Channels
- 3 VOX levels
- Low Battery Alarm
- Noise Reduction Circuit
- Battery Saving
- High/Low TX Power configured to designated channels
- Monitor
- Scan
- 121 codes (38 CTCSS & 83 CDCSS)
- One Key Frequency Matching
- Channel Replication



Get Familiar with the transceiver

1. PTT Button
2. Monitor/VOX Button
3. Scan/Call Button
4. Antenna
5. Channel Selection Knob
6. Power/Volume Switch
7. Microphone
8. Status Indicator
9. Keys to Remove Battery
10. Earphone Cap
11. Battery
12. Belt Screw Location



Charging Operation

Please use specified charger to charge the battery; the indicator light of the charger shows the condition of charging operation.

Indicator light	Indicator status
Red light	Be charging
Green light	Charging completed

Please do the following steps to charge:

1. Insert the AC plug of the power adapter into the AC power outlet.
2. Insert the DC plug of the power cord into the DC jack on the back of the charger,
3. Place the battery or the radio with battery on the charger.
4. Confirm that the battery contacts are well connected with the charger contacts, and the charge indicator light become red, which represent the beginning of the charging operation.
5. After a period of time, when the indicator light turn green, it shows the completion of the charging.



About Battery Saving

This is a standard function. To increase the battery life (decrease battery consumption). Radio has battery saving mode.

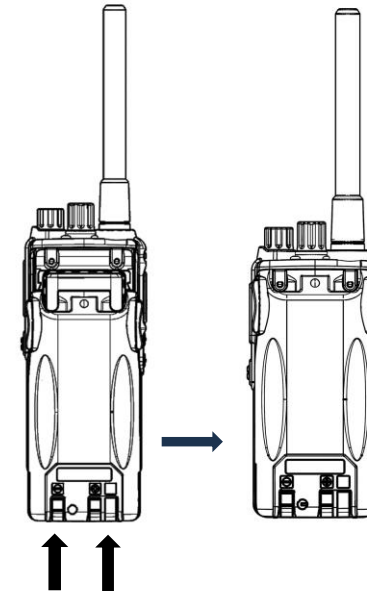
Battery saving mode will start after 10 seconds from the busy condition off.

Installation/Removal of the Battery

1. Installation of the Battery

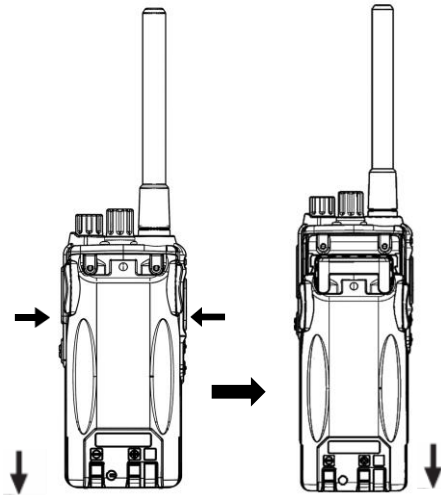
Please make sure the radio is powered off, and then place the battery into the corresponding position according to the grooves on both sides of the aluminum housing. Please make sure the battery is stuck in the corresponding groove and push the battery up hard from the bottom until you hear a click.

Note: If the battery is not fixed well, please remove it and reinstall.



2. Removal of the battery

To remove the battery, please make sure the radio is powered off. Press and hold the 'Keys to Remove Battery' on both sides to remove the battery. Then slide the battery down to remove it



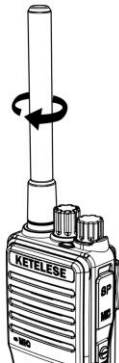
Installation /Removal of Antenna

1. Installation of the antenna

- (1) Plug the screw-thread end of the antenna into the socket at the top of the radio.
- (2) Turn the antenna clockwise and fasten the antenna to the antenna base

2. Removal of the antenna

Rotate the antenna counterclockwise to remove it.



Installation /Removal of Belt clip

1. Installation of the belt clip

First remove the battery, and then place the belt clip in the corresponding position of the belt clip screw hole, and fix it with two screws by a cross-screw.

Note: Do not install the belt clip unless the battery is off.

2. Removal of the belt clip

As for the removal of the belt clip, please refer to the installation steps and loose the screws in counterclockwise.

Installation/Removal of External Earphone or Microphone

1. Installation of the external earphone or microphone

- (1) Unclose the earphone cap (without removing) in the direction of the arrow.
- (2) Insert the earphone or microphone

2. Removal of the external earphone or microphone

You can pull out the external earphone or microphone to remove it.

Note: The use of an external earphone or microphone will affect the waterproof performance of the radio.

Operation Guide

Transmitting Range

The talk range depends on the environmental and terrain. It will reach (up to about 5km) in wide open spaces, without obstructions such as hills or buildings. Don't try to use two units which are less than 1.5m (5 feet) apart. If you do, you may experience interference.

Power On/Off

Rotate the Power knob clockwise until a "ka-ta" sound is heard to turn on the power. Counter clockwise to turn off.

Volume Adjustment

Turn the volume knob clockwise to increase the volume, or turn clockwise to decrease it.

Channel Adjustment

Channel knob clockwise to increase the channel number, or counterclockwise to decrease it.

Monitoring

Short click the monitor button it can directly monitor the channel you are without having to wait for their call you.

Voice Operated Transmission (VOX)

VOX is the optional microphone set. Keep pressing monitor button until the voice tell you VOX function is ON or OFF, VOX ON is a voice wake-up function that requires no key operation.

Receiving

Release PTT key, radio enter into the receiving mode, also during receiving, the indicator lights turns green. Please adjust the volume appropriately to achieve the best listening effect.

Scanning

Press scan button, it will scan all the channels one by one in order. When the function is activated, the radio will detect whether there are signals on these channels. If detect signals, it will stop at this channel to receive signals till signals ends, then start scan again.

High/ Low Power Selectable

Keep pressing scan button till the voice tell you the radio is high power or Low power. If the voice tell you the radio is high power, but you would like low power, keep pressing the scan button to switch. High power is 2 watt. Low power is 0.5 watt.

Low Battery Warning

When the capacity down to around 10%, low battery warning happens at that time. Then the battery needs to be charged.

One Key Frequency Matching

1. Take off the antenna of "Sub-machine", keep pressing the MONI key and turn on the power button at the same time. Then the device will then flash green at a frequency of 0.5s, and enter the 'One Click Frequency Matching Mode'.
2. If the interoperable intercom (Mother) is within 10 cm of the 'Sub-machine' , press and hold the launch button. After the frequency is successful, the green light of the 'Sub-machine' will be steady on, the channel number will be reported, and you can talk to each other.
3. Switch to another channel, perform Step 2, shut down and restart, and the switchover is complete.

PS: If failed to step 2, switching channel and try again.

Replication Mode

1. 'Sub-machine' take off the antenna, hold down the SCAN key and turn on the power button at the same time. Then the device will flash green at 1s frequency, and enter the 'Replication Mode'.
2. Repeat Step 1 for other machines to be replicated.
3. The 'Mother' does not need to remove the antenna, follow the step 1 operation, within 10 cm of the 'Sub-machine', press the PTT button, the red indicator is on, and start to wireless copy the channel information.
4. The green indicator light of other copied machines is steady on. After receiving the signal, the machine will automatically shut down and the replication is complete.

PS: Only machines of the same model can be copied.

Time Out Timer

TOT is the optional function set by programmer. If TOT is available, transmission time (hold the PTT button) will be limited on certain period of time. The TOT time setting is optional. TOT is useful for preventing from the thermal damage when Transceiver is under long time transmission.

Additional Function

(Write Frequency Software Function)

■ Scan

Scan is the optional function set by programmer. If scan function is available, radio can stop the any of channel which are busy.

■ CTCSS / CDCSS

CTCSS can be set by programmer.

If equipped with CTCSS or DCS, your group can not listen other group conversation. This function is useful to listen the voice within the group even other group are using same channel.

■ VOX (Voice Operated Transmission)

There are 9 levels sensitive for choice through by programmer.

Troubleshooting Guide

Problems	Solutions
No Power	Battery may have been exhausted. Please replace it with a new battery or recharging the battery. Battery may not be installed correctly. Please remove the battery and reload it.
Battery lasts no long after charging	Battery's lifetime is due. Please replace it with a new battery. Battery is not charged fully, so please ensure that the battery indicator is green when removing it.
It can not reach others of a group	Make sure you are using the same frequency and "sub-audio frequency /sub-audio digital settings" as other members of the group. Confirm whether you are in the valid range of radio since other members of the group may be too far away.
There are voices from other people rather than group members in the channel.	Please change the sub-audio frequency/sub-audio digital settings. At this time, be sure to change all the walkie-talkies of the group at the same time. (Need Users to recharge.)
When transmitting voices, only a small or even no sound can be heard on the other side.	Confirm whether the rotary volume knob is to the appropriate volume. Send the machine to Users to check the microphone.
Consistent noises	Other members of the group may be too far away and can not receive the voices you send, please get close and try again.

Maintenance and Cleaning

1. Do not lift the radio directly by its antenna or external microphone.
2. Dust the radio with an anti-pilling cloth to prevent bad contact.
3. When the radio is off work, please cover the microphone cap.
4. The buttons, control knob and the casing of radio are easy to become dirty after long usage, you can use a neutral detergent (do not use strong corrosive chemicals) and wrung damp cloth to clean it.

* The company reserves the right to change product design and specifications, and takes no responsibility for printing errors and omissions that may occur at the public division.

* Since technologies are developing continuously, the corresponding changes of product design and specifications will go without notice.

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* Our company reserves the right of final explanation to these commitments above.

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following.

two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

SAR statement

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The SAR limit set by the FCC is 1.6W/Kg. For body-worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and positions the device a minimum of 0mm from the body. RF exposure compliance with any body-worn accessory that contains metal was not tested and certified. And use of such body-worn accessory should be avoided. Accessory available in market and must be used to keep use distance 0mm from EUT to body-worn operation.



CAUTION

To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for general population use, always adhere to the following CAUTION guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the

manufacturer for use with this radio.

- **DO NOT** transmit for more than 50% of total radio use time " 50% duty cycle". Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the TX indicator lights red. You can cause the radio to transmit by pressing the "PTT" switch or " Group" button.

- **ALWAYS** use KETELESE authorized accessories (antennas, batteries, belt clips, speaker/mics, etc). Use of unauthorized accessories can cause the FCC RF

exposure compliance requirements to be exceeded. Body-worn operations are restricted to belt-clips, holsters or similar accessories that have no metallic component in the assembly and that provide at least 1.5 cm separation between the

device , including its antenna, and the user's body. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from mouth, and slightly off to one side. 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 assure that this radio operates within the FCC RF exposure limits of this radio.