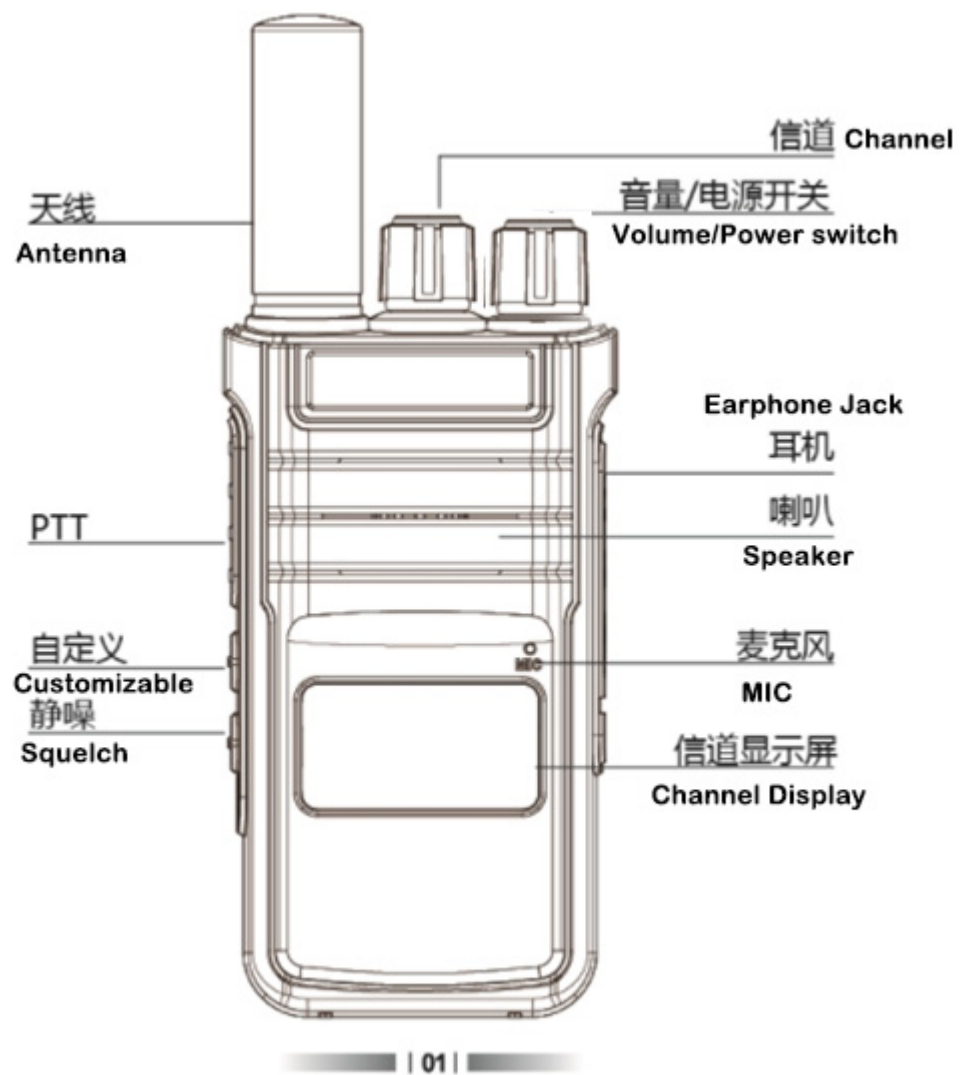


TWO-WAY RADIO



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FUNCTION

1. Operating Frequency: 462.5500-462.7250MHz: 32.2dBm
467.5625-467.7125MHz: 26.23dBm
2. 22 channel numbers
3. 50 groups CTCSS/105 groups DCS
4. Time-out timer(TOT):60 seconds
5. Power saving mode
6. Built-in VOX Function
7. Low voltage Alert(3.4V)
8. Scan function
9. Narrow band
10. Monitor Function
11. Busy Channel Lockout to avoid disturbance(When turned on, it prevents interference with users who are transmitting on the same channel)
12. Drop frequency(DCS when open this function, the frequency will be constantly jumping, to avoid interference or eavesdropping)
13. Match code and copy the frequency function(crack transmitter frequencies and copy 22 channel frequencies from the other walkie talkie)
14. Scrambler(This is an encryption function, when it be opened, will add scrambler signal, then there is no same scrambler signal can not receive, transmit)
15. Voice compandor(This function is turned on to reduce ambient noise, improve call clarity)

16. Battery voltage detection (when the voltage is below a certain level, there will be a low voltage voice warning)

17. Program encryption function

FUNCTIONAL OPERATION

Squelch Level Setup

This function is to mute the speaker when no signal received. If the squelch level is setup too high, weak signal won't be heard. If the squelch level is setup to low, the signal will be heard with noised background. The squelch level can be setup via programming software, ranging from 0~9.

Power Saving

If you turn on power function, it will decrease-es the power consumption when the transceiver no action (no press any keys or switch power button) or no receive any signal for more than 10 seconds. This function will turn off when receive signal or operate the transceiver.

Scan Function

Long press the side button, switch on to open/close scan.

When scan function is enabled, after rotating the channel1 switch to Channel 22, the transceiver will enter scan mode automatically. When a signal is received, scan will stop at the current channel. (Set up switch on/off via PC software)

VOX

This function allows the user to activate the communication without pressing the PTT

button. You just have to speak and the communication is on.

- a. Voice control function: It can be effective only when the voice control function is enabled.
- b. Voice-controlled gain level: When the sound level is higher than the set voice-controlled gain level, VOX will automatically transmit. The gain level can be adjusted from 1 to 9.
- c. When the radio receives a signal, even if the sound level is higher than the set gain level, VOX will not be transmitted.

Battery voltage detection

Low voltage alarm: When the voltage is below a certain level, about every 20S low voltage voice prompt, effective emission.

TOT

It is to control transmitting time 30~180 seconds adjustable. The TOT function will be active 30 seconds before the transmitting time coming. Transmitting LED light will flash.

Display Status

When turn on the radio or switch the channel numbers or adjust the volume, the battery capacity and channel number and the volume will be showed 5 seconds.

Replication Function

This function is to assist the radio frequency and channel number function, when two radios switch to channel 2 at the same time, then turn off this two radios ,long press radio1 PTT and side key 1, and turn on the radio at the same time, radio 1 of green light will flash to go into replication mode, this time, press radio2 PTT button to transmit until the red light change to green flash light, after shutdown and restart, the replication is complete. the frequency and function of this two radio will be the same in all channels.

Code Matching Function

This function is to crack the frequency and DCS/CTCSS, switch the channel of two radios to channel 1, and turn off the radio, long press radio1 PTT and side key 1 (Customizable Key) , and turn on the radio at the same time, radio 1 of green light will flash to go into code matching mode, this time, press radio 2 PTT button to transmit until heard "DI", then code matching is complete. the frequency and function of this two radio will be the same in channel1. The same as the above operation, can match the code one by one from channel1~22

Automatic Detection

Turn on the radio to channel 13, then turn off the radio, and press PTT and +key and squelch key, turn on the radio at the same time, this radio go into the automatic detection mode, the radio will automatically transmit/receive until 30 seconds is up. Shut down and exit the automatic detection mode.

CTCSS/DCS

This radio has CTCSS and DCS (PC programmable). Some channels can preprogrammed with CTCSS/DCS tones. A CTCSS/DCS is a sub-audio tone. On the same channel, only the same CTCSS/DCS tone can communicate. When you receive a signal that has different CTCSS/DCS, you will not hear the signal.

[Note] Although using channels set with CTCSS/DCS tones relieves you from listening to unwanted calls, it does not mean your calls will be private.

Scrambler

Programming to open the function on the channel of the walkie-talkie, when you are on a

call, the signal is encrypted, and only when the same channel is turned on the scrambling function can the intercom be normal.

TECHNICAL SPECIFICATION

Frequency Range	462.5500-462.7250MHz 467.5625-467.7125MHz
Memory Channel	22
Operate Voltage	DC3.7V
Frequency Stability	±2.5ppm
Working Temperature	-20°C~+55°C
Antenna Impedance	50 ohm
Transmitter	
RF output power	462.5500-462.7250MHz: 32.2dBm 467.5625-467.7125MHz: 26.23dBm
Emission current	≤1200mAh
Peak Frequency Deviation	2.5kHz
Conducted Carrier Power Output	≤7.5uW
Adjacent selectivity	≤-65db
Hum & Noise Ratio (Un-squelched)	≥-45DB
Mic Sensitivity	8~12mV

Receiver	
Receiver Sensitivity	-122dBm(12Db sinad)
Rated audio output power	>=350mA
Rated audio distortion	<10%
Inter modulation	>=65dB
Adjacent selectivity(wideband)	>=65dB
RX Current Consumption	<=350mA

WARNINGS: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by XIANGRUN may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules. Your radio is set up to transmit a regulated signal on an assigned frequency. Any adjustment to your radio must be made by qualified technicians.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SAR tests are conducted using standard operating positions accepted by the FCC with the device transmitting in all tested frequency bands. Before a new model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each product are performed in positions and locations as required by the FCC.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.

To maintain compliance with the FCC's RF exposure guidelines, hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to comply with the FCC RF exposure requirements, the antenna installation must comply with following:

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk (PTT) Button is pressed.

The device is authorized to operate at a duty factor not to exceed 50%.

Note

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.