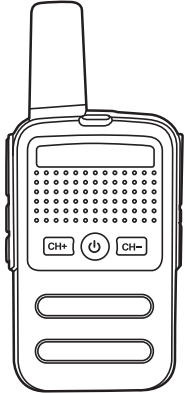


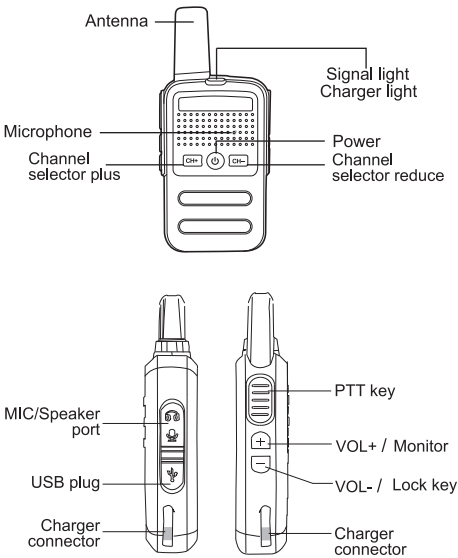
VOOPON
Two way radio



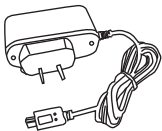
**C56TB
USER'S MANUAL**

22 channel
UHF(462-467Mhz)
VOX
TOT
Scanning
Low Battery Warning
CTCSS/DCS
Scrambling Function
Keyboard Lockout

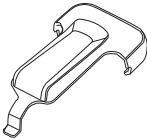
Warning: Before using this two way radio, please read the manual which contains important operating instructions for safe usage, RF Energy Awareness, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards, and also read the operational instructions for safe use.



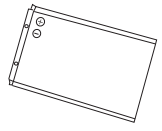
Radio body



Charger



Belt clip



Battery

Charging the Battery

- 1.The battery is not charged in the factory, please charge the battery under the environmental temperature 5-40 ℃ before using.
- 2.After purchasing or long-term storage (more than two months), charging the battery for the first time can not reach its saturation capacity, repeat charge/ discharge for twice or three times to make battery capacity achieve the best state.
- 3.Before charging, please power off the transceiver, using the transceiver during charging may affect correct charging.
- 4.If the battery has been charged fully, please do not charge it again, otherwise the service life of the battery may be shorten or may be damaged.
- 5.If the service time is significantly reduced even after completely correct charging, the battery can not be used any more, please replace a new battery.

Menu Operation

1. Long press the power key for 2 seconds to turn on/turn off the transceiver.
2. CH+/CH-: adjusting the Channel 1~22.
3. Side Key+/Side Key-: adjusting the volume level, the volume has a total of 8 levels.
4. PTT: when pressing the PTT key, please keep the microphone 3-8cm away from the mouth.

Functions Operation

• Scanning

It is convenient for the user to search for calls from other channels.When“Side Key 2” in the software is programmed to the scanning function, long press the side key **[-]** for two seconds to enter into the scanning mode, the transceiver will start to scan with the current channel; Operate it again to exit.

• Keyboard Lockout

When “Side Key 2” in the software is programmed to

the “Channel Lock”, long press the side key **[-]** for 2 seconds to lock the keyboard, operate it again to unlock.

• Monitoring

Long press the side key **[+]** to enter into the monitor mode,release it to exit.

• VOX

This function can be voice activated so the user doesn't have to press the PTT key. Switch to Channel 7, turn off the transceiver, then long press the PTT Key and CH- key, turn on the power at the same time. There will be a voice “vox on” or “vox off” . Vox gain inversion level refers to the voice sensitivity, it has level 1-9. The gain Level can be programmed by pc software.

• Time Out Timer(TOT)

The purpose of the TOT is to prevent any single person from using a channel for an extended period of time. An alarm will sound if the transmission continues beyond the set time. The transceiver will stop transmission if this occurs. To stop the alarm, release the PTT key and the transceiver will return to standby.

• Busy Lockout Function

The function can prevent interference with other transceivers in the channel.

• High-Low Power

The transceiver has a high-low power selection via software.

• Battery Power Saving

If there is no signal or operation, the transceiver will reduce its power consumption. The battery power-saving function activates when the channel is unoccupied or has not been in operation.

• Low Battery Warning

If the battery power falls to the predetermined value during transmission, the transceiver will give out a voice prompt, please charge in time.

• Scrambling

It is a voice encryption mode which is different from sub audio.

• CTCSS/DCS

The transceiver has 50 CTCSS and 208 DCS, also non-standard subaudio can be programmed!

• Special Signaling

Special Signaling refers to the DCS on the channels which is special processed codes. Only when the transceivers in the same company are programmed to the same frequency point with the same DCS and meanwhile special signaling is set, then they can talk to each other.

Appendix A: Technical parameters	
SPECIFICATIONS	
Frequency Range	462-467MHz
Supply Power	DC3.7V
Memory Channel	22
Antenna Configuration	Internal Antenna
Ground Method	Cathode
Work Mode	CoDiffer-frequency Simplex Communication
Dimension	136×59×21mm
TRANSMITTER	
Output Power	2W/0.5W
Modulation Mode	FM(F3E)
Max.Frequency Deviation	≤5KHz
Sparious Radiation	≤7.5μW
Preemphasis Character	Per Octave 6dB
Emission Current	≤1000mA

RECEIVER	
Sensitivity	<0.16μV (12dB SINAD)
Audio Power	≥300mW
Audio Distortion	<5%
Intermodulation Interference Resistance	≥60dB
Receiving Current	≤300mA
Standby Current	≤20mA

·We May Change The Specifications For Technical Improvement Without Prior Notice.

Appendix B.-FRS Frequency Chart (MHz)

CH. No	CH. Freq.	Power Output	CH. No	CH. Freq.	Power Output
1	462.5625	High	12	467.6625	Low
2	462.5875	High	13	467.6875	Low
3	462.6125	High	14	467.7125	Low
4	462.6375	High	15	462.5500	High
5	462.6625	High	16	462.5750	High
6	462.6875	High	17	462.6000	High
7	462.7125	High	18	462.6250	High
8	467.5625	Low	19	462.6500	High
9	467.5875	Low	20	462.6750	High
10	467.6125	Low	21	462.7000	High
11	467.6375	Low	22	462.7250	High

Appendix C.-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.
You cannot communicate with other group members.	The speaker maybe blocked.	Clean the surface of the speaker.
	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.
The radio keeps transmitting.	It may be the result of external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.
	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.

The accuracy and completeness of the contents are sought in the process of compilation, but we do not bear any responsibility for the possible errors or omissions. With the continuous development of technology, we reserve the right to change the design and specification of the product without notice. No copy, modification, translation and dissemination of this handbook may be made in any form without the prior written authorization of our department.

Hefei Vooxon Technology Co., LTD
Baili Business Central, Hefei, Anhui, China
If you have any question, please contact
Email: Service@vooxonradio.com

