PHILIPS VTR1501 Smart Intercom Voice Terminal Instruction Manual

June 15, 2025

Contents [hide]

VTR1501 Smart Intercom Voice Terminal

Product Information

Overview

The VTR1501 amateur radio is a versatile communication device designed for hobbyists and enthusiasts. It comes equipped with various features to enhance your radio communication experience.

Features

- Antenna
- Speaker
- Microphone
- Power Switch/Volume Control: For powering on/off and adjusting volume.
- Indicator Light
- Lanyard Hole
- Belt Clip
- Battery Lid
- Charger Contact Piece
- PTT Button: Press to transmit, release to receive.
- Press and Hold to Record
- Press and Hold to Play the Recording
- Accessory Jack: For connecting optional external headphones or programming cable.
- Type C Charging Jack
- Battery Buckle: Must be released to remove the battery.

Technical Specifications

- **Frequency Range:** Scanning: 400-480MHz, RX:

400-480MHz, TX: 420-450MHz (Amateur Band)
- **Channel Spacing:** 25/12.5kHz
- **Operating Voltage:** 7.4V DC
- **Battery Capacity:** 2000mAh
- **Dimensions:** 113mm x 60mm x 31mm
- **Weight:** Approximately 175g (with standard battery and antenna)
- **Transmitter Output Power:** 5W
- **Modulation Mode:** F3E
- **Maximum Frequency Deviation(W/N):** 5KHz/2.5KHz
- **SNR(W/N):** -45dB/-40dB
- **Receiver Sensitivity(W/N):** 0.22V/0.25V 12dB SINAD
- **Inter-Modulation(W/N):** 65dB/60dB
- **Audio Output Power:** 1W(16)

Product Usage Instructions

Powering On/Off and Adjusting Volume

To power on/off the device and adjust the volume, use the Power Switch/Volume Control located on the device.

Transmitting and Receiving

To transmit, press the PTT Button while speaking into the microphone. Release the button to switch to receiving mode.

Recording and Playback

To record, press and hold the designated button. Similarly, press and hold the button to play back the recording.

Connecting External Accessories

You can connect optional external headphones or a programming cable to the Accessory Jack for additional functionalities.

Battery Management

To remove the battery, ensure you break the Battery Buckle clip for safe removal and replacement.

Frequently Asked Questions (FAQ)

Q: How do I charge the device?

A: The device can be charged using the Type C Charging Jack provided. Make sure to use a compatible charger for efficient charging.

Q: Can I use this radio for professional purposes?

A: The VTR1501 amateur radio is designed for hobbyist and amateur use. It may not have the features required for professional applications.

Q: What is the range of frequencies this radio supports?

A: The radio supports scanning from 400MHz to 480MHz and transmission on the amateur band between 420MHz to 450MHz.

View Fullscreen

VTR1501 PRODUCT DETAILS Welcome to use our amateur radio 1.Overview
1. Antenna 2. Speaker 3. Microphone 4. Power Switch/Volume Control: Used for powering on/off and adjusting volume. 5. Indicator Light 6. Lanyard Hole 7. Belt Clip 8. Battery Lid 9. Charger Contact Piece 10. PTT Button: Press this button to transmit while speaking into the microphone; release it to receive. 11. Press and Hold to Record 12. Press and Hold to Play the Recording 13. Accessory Jack: Can be used to connect optional external headphones or a programming cable for reading/writing frequencies through PC software. 14. Type C Charging Jack 15. Battery Buckle: Need to break buckle this battery clip when removing the battery

1. 4. 5.
3. 2.

6.
7. 8.
9.

10. 11.
and Hold to Record
12.

13. 13. 14.

Power Switch/ Volume Control

15.Battery Buckle

2.Technical Specification
General
Frequency range
Channel Spacing Operating Voltage Battery Capacity Dimensions Weight (with standard battery and antenna) Transmitter Output Power Modulation Mode Maximum Frequency Deviation(W/N) SNR(W/N) Receiver Sensitivity(W/N) Inter-ModulationW/N Audio Output Power Audio Distortion RX Current Standby Current Environment Operating Temperature

Scanning: 400-480MHz RX: 400-480MHz TX: 420-450MHz(Amateur Band_) 25/12.5kHz
7.4V DC 2000mAh 113mm*60mm*31mm
Approx.175g
5W F3E 5KHz/2.5KHz
-45dB/-40dB
0.22V/0.25V 12dB SINAD 65dB/60B 1W(16) <5% 500mA 70mA
-20 ~ +60

Due to continuous technological advancements, the above data is subject to change without prior notice.

3.Standard Accessories

Battery: AB-150 Code: black Battery Type: Polymer battery Capacity: 7.4V / 2000mA
Belt Clip: VTR1501 Code: black Specification: for VTR1501

Antenna: VTR1501 Rubber antenna Code: black Specification: 400-480MHZ
Hand strap: VTR1501 Code: black Specification: Lanyard

4.Switch on/off the Power
Rotate the “power/volume button”clockwise to switch on the power, and you will hear the “Beep” , the device will automatic broadcast the corresponding channel.
5.Adjust the Volume
Rotate the “power/volume button”clockwise to turn up the volume, Rotate the “power/volume button” counterclockwise to turn down the volume
6.Installation of antenna
The supplied high gain antenna provides high performance at the entire UHF frequency range of the transceiver. (1)To install the supplied antenna, hold the bottom of the antenna, and then screw it into the connector on the transceiver until it is sug. Do not over-tighten by use of extreme force (2)To uninstall the antenna, hold the bottom of it and turn it counterclockwise to remove it. Note: ÿ1ÿ|) Never transmit without having an antenna connected. ÿ2ÿ) When installing the supplied antenna, never hold the upper part of the antenna while screwing it onto the connector on the transceiver. Or you will snap the antenna.
7.Scan Mode
The user defines the long press function of the side button as “Scanning”through programming software. After the device is turned on, the button is triggered, and the device cyclically scans the carrier signals on 16 channels in an increasing direction.

8. Precautions
Please observe the following precautions when using this product to avoid fire, personal injury, damage to equipment or other accidents: Do not use the equipment in inflammable and explosive environment (such as gas, dust, smoke,etc.), please turn off the equipment when refueling or parking at the gas station. Do not place the equipment in dusty, wet or splashed places or on uneven surfaces. Please use this equipment away from interference sources (such as TV, computer, distribution cabinet, etc.). Do not transmit while charging. Do not use radio while driving. Do not expose the device to

direct sunlight for a long time or place it near the heating
device. If the equipment emits abnormal odor, it must be turned off immediately. After ensuring safety, it should be sent to the nearest maintenance site for inspection. Do not modify or adjust this equipment for any reason. Please obey the local laws and regulations. Disclaimer: The customer shall bear all the responsibility for the equipment failure or accident caused by the customer's violation of the above precautions, and the company shall not be responsible for it.
Note: Public can<not use this Amateur device.

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. SAR tests are conducted using standard operating positions accepted by FCC with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is a available for sale to the public, it must be tested and certified to the FCC that is 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 and accessory designated for this product or when used with and accessory that contains no metal. To maintain compliance with FCC 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.

The equipment complies with FCC radiation exposure limits set forth for and uncontrolled environment. In order to comply with the FCC RF exposure requirement, 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 low 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%. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the 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.
Company Name: Shenzhen Jingwah Information Technology Co., Ltd. Address:6F, Bldg.4, Jinghua Square, No. 168, hZenzhong Rd. Fuqiang Community, Huaqiangbei, Futian District, Shenzhen, China

Documents / Resources

	PHILIPS VTR1501 Smart Intercom Voice Terminal [pdf] Instruction Manual RBD-VTR1501, RBDVTR1501, vtr1501, VTR1501 Smart Intercom Voice Terminal, Smart Intercom Voice Terminal, Intercom Voice Terminal, Voice Terminal

References

- User Manual

Philips

Intercom Voice Terminal, Philips, RBD-VTR1501, RBDVTR1501, Smart Intercom Voice Terminal, Voice Terminal, vtr1501, VTR1501 Smart Intercom Voice Terminal

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search