Retekess TR105

Retekess TR105 Portable Multi-Band Digital Radio Receiver User Manual

Model: TR105

1. Introduction

Thank you for choosing the Retekess TR105 Portable Multi-Band Digital Radio Receiver. This compact and versatile radio is designed to provide access to a wide range of frequencies, including FM, AM, Shortwave (SW), Citizens Band (CB), Aviation Band (AIR), and VHF. It features a digital display, automatic and manual tuning, station memory, and a built-in rechargeable battery, making it ideal for travel, outdoor activities, or everyday listening.

This manual provides detailed instructions on how to set up, operate, and maintain your TR105 radio. Please read it thoroughly before use to ensure optimal performance and longevity of your device.



Figure 1: Retekess TR105 Portable Multi-Band Digital Radio Receiver.

2. Important Safety Information

To ensure safe operation and prevent damage to your device, please observe the following precautions:

- Do not expose the radio to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the radio to strong impacts.
- Do not attempt to disassemble or modify the radio. This will void the warranty.
- Keep the radio away from water and other liquids.
- Use only the specified charging cable and power adapter (if included) to charge the device.
- Dispose of batteries according to local regulations.

3. Package Contents

Please check the package for the following items:

- Retekess TR105 Multi-Band Radio Receiver
- USB Charging Cable
- External Soft Antenna (3m)
- Wired Earphones
- Wrist Strap
- User Manual



Figure 2: Included accessories with the Retekess TR105 radio.

4. Product Overview

Familiarize yourself with the various components and controls of your Retekess TR105 radio.



Figure 3: Retekess TR105 radio, compact design.

4.1 Controls and Ports

- **LCD Display:** Shows frequency, time, battery level, and other indicators.
- **Power/Sleep Button:** Turns the radio on/off, activates sleep timer.
- **SET Button:** Enters settings menu, confirms selections.
- **MODE Button:** Switches between frequency bands (FM/AM/SW/CB/AIR/VHF).
- **MEMO Button:** Accesses stored stations, saves current station.
- **Up/Down Buttons (∧ / ∨):** Adjusts frequency, navigates menus, changes volume.
- **VOL +/- Buttons:** Adjusts volume level.
- **Telescopic Antenna:** Extend for optimal reception, especially for FM and SW.
- **External Antenna Jack:** For connecting the included 3m soft antenna.
- **DC 5V Charging Port (Micro USB):** For charging the internal battery.
- **3.5mm Headphone Jack:** For private listening.
- **LOCK Button:** Locks all buttons to prevent accidental operation.

5. Setup

5.1 Charging the Battery

The Retekess TR105 has a built-in 700mAh rechargeable lithium battery. Before first use, fully charge the radio.

1. Connect the supplied USB charging cable to the DC 5V port on the side of the radio.
2. Connect the other end of the USB cable to a USB power adapter (not included) or a computer's USB port.
3. The battery indicator on the LCD display will show charging status.
4. Charging is complete when the battery indicator shows full.

5.2 Attaching the External Antenna

For improved reception, especially on FM and Shortwave bands, you can use the included 3-meter soft external antenna.

1. Locate the external antenna jack on the top of the radio.
2. Plug the external antenna into this jack.
3. Extend the telescopic antenna fully and clip the external antenna's alligator clip to the telescopic antenna for best results.



Figure 4: Connecting the external antenna for enhanced reception.

6. Operating Instructions

6.1 Power On/Off

- Press and hold the **POWER/SLEEP** button to turn the radio on or off.

6.2 Band Selection

- Press the **MODE** button repeatedly to cycle through the available frequency bands: FM, AM, SW, CB, AIR, VHF. The selected band will be displayed on the LCD.

6.3 Tuning for Stations

Automatic Search:

- In any band, long press the **SET** button to initiate an automatic search for stations. The radio will scan and automatically save found stations to memory.

Manual Tuning:

- Press the ∧ or ∨ buttons briefly to fine-tune the frequency step by step.
- Press and hold the ∧ or ∨ buttons to quickly scan up or down the frequency band until a station is found.

6.4 Saving and Recalling Stations

- **To Save:** Tune to the desired station. Press the **MEMO** button. Use the ∧ or ∨ buttons to select a memory slot (each band can store up to 50 channels). Press **MEMO** again to confirm.
- **To Recall:** Press the **MEMO** button. Use the ∧ or ∨ buttons to browse through the stored stations.

6.5 Volume Control

- Use the **VOL +** and **VOL -** buttons on the side of the radio to adjust the volume level.

6.6 Squelch Function (AIR/CB Bands)

The squelch function helps to suppress background noise when no signal is present, particularly useful on AIR and CB bands.

- In AIR or CB band mode, long press the **SET** button to activate or deactivate the squelch function.

6.7 Clock, Timer, and Alarm Functions

The radio includes a clock, sleep timer, and alarm features. Refer to the on-screen prompts and the **SET** button for configuration.

- **Setting Time:** In standby mode, long press **SET** to enter time setting. Use ∧ / ∨ to adjust, **SET** to confirm.
- **Sleep Timer:** Briefly press **POWER/SLEEP** while the radio is on to cycle through sleep timer options (e.g., 90, 60, 30, 15 minutes). The radio will automatically turn off after the set time.
- **Alarm Clock:** In standby mode, short press **SET** to enter alarm setting. Use ∧ / ∨ to adjust alarm time, **SET** to confirm.

6.8 Using Headphones

For private listening, plug standard 3.5mm stereo headphones into the headphone jack on the side of the radio.



Figure 5: Enjoying private listening with headphones.

6.9 Button Lock Function

- Slide the **LOCK** switch on the side of the radio to prevent accidental button presses. Slide it back to unlock.

7. Maintenance

7.1 Cleaning

- Wipe the radio with a soft, dry cloth. Do not use abrasive cleaners or solvents.

7.2 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- If the radio will not be used for an extended period, charge it periodically (e.g., every 3 months) to maintain battery health.

7.3 Storage

- Store the radio in a cool, dry place, away from direct sunlight and extreme temperatures.

8. Troubleshooting

Problem	Possible Cause	Solution
Radio does not turn on.	Battery is depleted.	Charge the radio using the USB cable.
No reception or poor signal.	Weak signal area; antenna not extended; external antenna not connected.	Extend the telescopic antenna fully. Connect the external soft antenna. Try moving to a different location.

Problem	Possible Cause	Solution
Buttons are unresponsive.	Button lock function is active.	Slide the LOCK switch to the unlocked position.
Squelch not working on AIR/CB.	Squelch function is not activated.	Long press the SET button in AIR or CB band to activate squelch.

9. Specifications

Feature	Detail
Brand	Retekess
Model	TR105
Frequency Bands Supported	FM, AM, SW, CB, AIR, VHF
Tuner Technology	FM
Display Type	LCD with backlight
Battery Type	700mAh Lithium-ion (rechargeable)
Charging Interface	Micro USB (DC 5V)
Audio Output	3.5mm Headphone Jack, Built-in Speaker (1 Watt max output)
Special Features	Rechargeable, Portable, Built-in AM antenna, Sleep Timer, Alarm Clock, Button Lock, Squelch Function
Dimensions (L x W x H)	10 x 6 x 1.5 cm
Weight	198 g
Material	Plastic



Figure 6: Retekess TR105 product dimensions.

10. Warranty and Support

10.1 Warranty Information

The Retekess TR105 radio comes with a **12-month warranty** from the date of purchase, covering manufacturing defects. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

10.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Retekess customer support. We offer **24-hour customer support** to assist you.

- Refer to the contact information provided on the Retekess official website or your purchase documentation.

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