

YOYDA CZE-T251

YOYDA 25W FM Transmitter CZE-T251 Instruction Manual

Model: CZE-T251 | Brand: YOYDA

1. INTRODUCTION

Thank you for choosing the YOYDA 25W FM Transmitter CZE-T251. This professional-grade FM stereo broadcast transmitter is designed for reliable and stable audio transmission. Featuring digital phase-locked loop (PLL) technology, adjustable power output from 0 to 25 watts, and built-in protection mechanisms, it ensures high-quality performance for various broadcasting needs. This manual provides essential information for proper setup, operation, and maintenance of your device.

2. IMPORTANT SAFETY INFORMATION

To ensure safe and optimal operation of your YOYDA 25W FM Transmitter, please adhere to the following safety guidelines:

- **Antenna Connection:** Always ensure the antenna or load is securely connected and properly grounded to the transmitter **before** powering on the device. Failure to do so can result in damage to the unit.
- **Power Supply:** Use only the provided 12V power adapter. The power supply voltage must be within the allowed range (DC 12-13.8V 5A/6A). Incorrect voltage can cause severe damage.
- **Ventilation:** Ensure adequate fan ventilation. Do not block the ventilation openings on the device. Overheating can trigger the temperature protection function and may lead to device shutdown or damage.
- **Antenna Connector:** The antenna connector type is NJ. Ensure compatible antenna connections.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x YOYDA 25W FM Transmitter (CZE-T251)
- 1 x 12V Power Adapter

4. PRODUCT OVERVIEW

The YOYDA CZE-T251 FM Transmitter features a compact and durable chassis with intuitive controls and clear indicators.



Figure 4.1: Front view of the YOYDA CZE-T251 FM Transmitter, showing the display and control knob.

Front Panel

Panel function introduction



1. Frequency regulation: frequency from 88-108M stepless regulation
2. Volume regulation: external audio signal control: (receiving computer, mobilephone, MP3, TV and other audio interfaces)
3. Microphone volume: Volume Control of external microphone
4. Power adjustment: power + 0-25w / parameters, stepless adjustment of power
5. Temperature protection: set the size of the over temperature protection value(using the default value)
6. SWR protection: setting up the protection value of SWR (protection machine)
7. Audio mode: single channel / stereo control
8. Mute control: can put the machine in the quiet state

Figure 4.2: Detailed view of the front panel, illustrating the display and control functions.

- **Display Screen:** Shows frequency, power output, SWR (Standing Wave Ratio), and temperature.
- **Control Knob (PUSH-SET):** Used to navigate menus, adjust frequency, and set power. Press to confirm, rotate to change values.
- **Audio Input Volume Control:** Adjusts the volume for the LINE IN audio source.
- **Microphone Volume Control:** Adjusts the volume for the microphone input.

Rear Panel



Figure 4.3: Rear panel connections, including RF OUT, LINE IN, MIC, RS232, and power input.

- **RF OUT:** Antenna output connector (NJ type).
- **LINE IN (RCA):** Two-channel Cinch (stereo) input for audio sources.
- **MIC (6.5mm):** Microphone input interface (for dynamic microphones only).
- **RS232:** Serial port for PC control (if applicable).
- **12V=6.0A:** DC power input.
- **Power Switch:** On/Off switch for the device.

5. SETUP GUIDE

Follow these steps to set up your YOYDA 25W FM Transmitter:

1. **Connect the Antenna:** Screw the antenna securely into the RF OUT connector on the rear panel. Ensure it is tightly fastened. **Warning: Do not power on the transmitter without the antenna connected, as this can cause damage.**
2. **Connect Audio Source:** Connect your audio source (e.g., mixer, computer, MP3 player) to the LINE IN (RCA) ports on the rear panel. For microphone input, connect a dynamic microphone to the 6.5mm MIC interface.
3. **Connect Power Adapter:** Plug the 12V power adapter into the DC power input port on the rear panel, then plug the adapter into a suitable power outlet.
4. **Power On:** Flip the power switch on the rear panel to the 'ON' position. The display screen will light up.

Video 5.1: Official YOYDA video demonstrating the setup and features of the 25W FM Transmitter.

Video 5.2: General setup guide for a 25W Long Range FM Broadcast Transmitter. While not specific to the YOYDA brand, it may offer

6. OPERATING INSTRUCTIONS

6.1. Adjusting Frequency

The transmitter uses digital phase-locked loop (PLL) technology for ultra-high frequency stability. The frequency range is typically 87.5-108 MHz.

1. Rotate the **PUSH-SET** knob on the front panel to navigate to the frequency setting menu.
2. Press the **PUSH-SET** knob to select the frequency setting. The frequency digits on the display will start flashing.
3. Rotate the **PUSH-SET** knob to adjust the desired broadcasting frequency.
4. Press the **PUSH-SET** knob again to confirm the frequency.

6.2. Adjusting Power Output

The output power is continuously adjustable from 0 to 25 watts.

1. Rotate the **PUSH-SET** knob to navigate to the power setting menu (e.g., "RF POWER SET").
2. Press the **PUSH-SET** knob to select the power setting. The power percentage on the display will start flashing.
3. Rotate the **PUSH-SET** knob to adjust the desired power output (0-25W).
4. Press the **PUSH-SET** knob again to confirm the power setting.

6.3. Audio and Microphone Volume

Use the dedicated volume control knobs on the front panel to adjust the input levels for LINE IN audio and the microphone.

- Rotate the **Audio Volume** knob to increase or decrease the volume of the LINE IN audio source.
- Rotate the **Mic Volume** knob to increase or decrease the volume of the connected microphone.

6.4. Single/Dual Channel Mode

The transmitter supports selectable single or dual channel mode for audio broadcasting. Refer to the on-screen menu options for switching between these modes using the **PUSH-SET** knob.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your transmitter:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Ventilation:** Regularly check that the fan and ventilation openings are free from dust and obstructions. A clogged fan can lead to overheating.
- **Storage:** When not in use for extended periods, store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Connections:** Periodically inspect all cables and connectors for any signs of wear or damage. Replace damaged cables immediately.

8. TROUBLESHOOTING

This section addresses common issues and their solutions:

- **No Power:** Ensure the power adapter is correctly connected to both the transmitter and a working power outlet. Check the power switch on the rear panel.
- **No Signal Output:** Verify that the antenna is securely connected to the RF OUT port. Check the frequency setting and

ensure it is within the operational range.

- **Poor Audio Quality/No Audio:** Check the audio source connection to the LINE IN ports. Ensure the audio source is playing and its volume is adequate. Adjust the Audio Volume knob on the transmitter. For microphone issues, ensure a dynamic microphone is used and connected correctly, and adjust the Mic Volume knob.
- **VSW Protection Activated:** If the Standing Wave Ratio (VSW) protection activates, it indicates an issue with the antenna or its connection (e.g., not connected, poor connection, or mismatch). Immediately power off the unit, check the antenna connection, and ensure it is properly grounded.
- **Overtemperature Protection Activated:** If the transmitter's temperature becomes too high, the overtemperature protection will activate, potentially reducing power or shutting down the unit. Ensure adequate ventilation around the device and that the cooling fan is not obstructed.

9. SPECIFICATIONS

Feature	Description
Product Dimensions	8.46 x 6.5 x 8.46 inches (215mm x 165mm x 54mm chassis)
Item Weight	5.06 pounds
Model Number	CZE-T251
Output Power	0-25W (continuously adjustable)
Frequency Range	87.5-108 MHz (Digital PLL technology)
Audio Frequency Response	50-15KHz (±3db)
Audio Distortion	0.2%
Left/Right Channel Separation	45db
LINE IN Connector	RCA two-channel Cinch (stereo)
Microphone Interface	6.5mm (Dynamic microphone only)
Working Voltage	DC 12-13.8V 5A/6A
Protection Features	VSW protection, Overtemperature protection, RF power lock
Material	Plastic (Chassis is metal)
Special Feature	Low Latency

10. WARRANTY INFORMATION

This product is covered by a standard manufacturer's warranty. For specific details regarding warranty duration and coverage, please refer to the warranty card included in your package or contact YOUDA customer service. Extended protection plans (e.g., 2-Year, 3-Year) may be available for purchase separately.

11. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your YOUDA 25W FM Transmitter CZE-T251 that are not covered in this manual, please contact YOUDA customer support for assistance. You can typically find contact information on the product packaging, warranty card, or the official YOUDA website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question