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YOVDA CZE-15A

FM Transmitter User Manual

Model: CZE-15A | Brand: YOVDA

PRODUCT OVERVIEW

The YOVDA CZE-15A FM Transmitter is a versatile 15W radio broadcast transmitter designed for various applications, including church services, drive-in movies, and other events requiring long-range FM transmission. It features a high-quality aluminum housing for effective heat dissipation and provides stable, high-fidelity sound.

This device supports multiple audio inputs, including a 3.5mm AUX jack, making it compatible with a wide range of devices such as MP3 players, mobile phones, computers, and audio mixers. The adjustable power output (3W/15W) allows for flexible use depending on your broadcasting needs.



Figure 1: YOYDA CZE-15A FM Transmitter with included antenna.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x 15W FM Transmitter (CZE-15A)
- 1x 12V Power Supply
- 1x 3.5mm Audio Cable
- 1x Aluminum Antenna
- 1x Antenna Cable
- 1x User Manual (this document)

Package Includes



Figure 2: All components included in the YOYDA CZE-15A FM Transmitter package.

SETUP GUIDE

Follow these steps to set up your FM Transmitter:

1. **Connect the Antenna:** Screw the antenna cable into the TNC antenna interface on the back of the transmitter. Ensure it is securely fastened.
2. **Connect Power:** Plug the 12V power supply into the DC 12V 4A power supply interface on the back of the transmitter. Then, plug the power supply into a suitable electrical outlet.
3. **Connect Audio Input:** Use the provided 3.5mm audio cable to connect your audio source (e.g., MP3 player, phone, computer, audio mixer) to the Audio Input jack on the front panel.
4. **Optional Microphone Input:** If using a microphone, connect it to the Mic Input jack on the front panel.

FM radio transmitter panel parameters

The CZE-15A broadcast transmitter is designed with high quality aluminum alloy with efficient heat dissipation and equipped with a car antenna, allowing you to broadcast anytime, anywhere!



Figure 3: Detailed view of the CZE-15A transmitter's front and rear panel connections and controls.

3.5mm all connection



Figure 4: The 3.5mm audio input allows connection to various devices like computers, mobile phones, MP3 players, audio mixers, and microphones.

For a visual guide on connecting the device and its basic operation, please watch the following video:

Your browser does not support the video tag.

Video 1: Demonstration of the YOYDA CZE-15A FM Transmitter setup and audio playback. This video shows the connection of the audio source, power, and antenna, along with basic operation.

OPERATING INSTRUCTIONS

Once the transmitter is set up, follow these steps for operation:

1. **Power On:** Press the Power switch button on the front panel to turn on the transmitter. The LCD display will illuminate, showing the current transmission frequency.
2. **Adjust Frequency:** Use the "Frequency increasing button" (+) and "Frequency decrease buttons" (-) to set your desired FM broadcasting frequency. Ensure the chosen frequency is clear and not in use by other stations in your area.

3. **Adjust Audio Volume:** Rotate the "Volume adjustment" knob (labeled "Audio V+") to control the audio input level.
4. **Adjust Microphone Volume (if applicable):** Rotate the "Mic volume adjustment" knob (labeled "Mic V+") to control the microphone input level.
5. **Select Power Output:** The transmitter supports 3W and 15W output. Refer to the device's internal settings or specific button (if available, not explicitly shown on panel diagram) to switch between these power levels. For shorter distances or to avoid interference, use 3W. For maximum range (1-3 km), use 15W.
6. **Start Broadcasting:** Begin playing audio from your connected source. The transmitter will broadcast the audio on the selected FM frequency.

The intelligent chip control system helps manage heat dissipation, with the cooling fan adjusting speed based on the 15W power broadcasting to maintain optimal performance.

Intelligent chip control for heat dissipation

When 15W power broadcasting is used
and the temperature rises,
the speed of the fan will also speed up,
With aluminum alloy shell, it dramatically
improves the heat dissipation performance.



Figure 5: The intelligent chip control system and cooling fan ensure efficient heat dissipation during operation, especially at 15W output.

Portable, compact and easy to use

With such a compact FM transmitter with an aluminum antenna, you can set up a 15W FM radio station anywhere. With a range of up to 3km, whether it's a fleet of cars, a church or a movie theater, it's up to you!



Figure 6: The compact design and aluminum antenna allow for portable use, offering a broadcasting range of 1-3 kilometers (0.62-1.86 miles).

Wide applicability

Ideal for various scenarios such as drive-in theaters, fleet broadcasting, school broadcasting
factory broadcasting, church broadcasting, etc.



Figure 7: The CZE-15A FM Transmitter is ideal for a wide range of applications, including drive-in theaters, church services, and other outdoor events.

SPECIFICATIONS

Feature	Description
Working Voltage	12V
Working Current	<3A
Frequency Stabilization	±10PPM
Working Ambient Temperature	-10°C to 45°C
Output Impedance	50Ω
Output Power	3W / 15W (Adjustable)

Feature	Description
Signal-to-Noise Ratio	≥60dB (Input), ≤-60dB (Output)
Audio Distortion	0.30%
Pre-emphasis	50us
Separation	≥35 dB
Input Level	≤15 dB
Product Dimensions	7.48 x 4.92 x 1.77 inches (19 x 12.5 x 4.5 cm)
Item Weight	1.2 pounds (0.54 kg)
Material	Metal (Aluminum Housing)

MAINTENANCE

To ensure the longevity and optimal performance of your YOUDA FM Transmitter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the transmitter. Do not use liquid cleaners or abrasive materials, as they may damage the finish or internal components.
- **Ventilation:** Ensure the cooling fan and ventilation openings on the device are not obstructed. Proper airflow is crucial for heat dissipation, especially during prolonged operation at higher power.
- **Storage:** When not in use for extended periods, store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle all cables and connectors with care to prevent damage. Avoid sharp bends or excessive pulling.

TROUBLESHOOTING

If you encounter issues with your FM Transmitter, please refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No Power / Device Not Turning On	◦ Ensure the 12V power supply is securely connected to both the transmitter and a working electrical outlet. ◦ Check if the power outlet is functional by plugging in another device. ◦ Verify the power supply cable is not damaged.

Problem	Possible Cause / Solution
No Audio Output / Poor Sound Quality	◦ Check if the 3.5mm audio cable is properly connected to both the transmitter's Audio Input and your audio source. ◦ Ensure the audio source (e.g., phone, MP3 player) is playing audio and its volume is turned up. ◦ Adjust the "Audio V+" knob on the transmitter. ◦ Verify the antenna is securely connected and properly positioned for optimal signal. ◦ Try a different FM frequency to avoid interference. ◦ Ensure the receiving FM radio is tuned to the exact frequency set on the transmitter.
Limited Broadcast Range	◦ Ensure the transmitter is set to 15W output power for maximum range. ◦ Check the antenna connection and ensure it is positioned in an open area, free from obstructions. ◦ Environmental factors (buildings, terrain) can affect range. Try repositioning the transmitter and antenna. ◦ Interference from other electronic devices or strong FM signals can reduce range.
Microphone Not Working	◦ Ensure the microphone is properly connected to the Mic Input jack. ◦ Adjust the "Mic V+" knob on the transmitter. ◦ Test the microphone with another device if possible to confirm it is functional.

SAFETY INFORMATION

Please read and adhere to the following safety guidelines:

- This product emits radiofrequency radiation. Keep the device away from sensitive areas.
- Use the power supply responsibly and keep it out of reach of children and pets.
- Follow all data security and privacy guidelines when connecting external devices.
- Do not expose the device to water, moisture, or extreme temperatures.
- Do not attempt to open or repair the device yourself. Refer to qualified personnel for service.

FCC Approval: 2A6BQ-15A. This device is legal to operate in the frequency bands restricted by the FCC.

WARRANTY AND SUPPORT

The YOYDA CZE-15A FM Transmitter comes with a **1-year warranty** from the date of purchase, ensuring high performance and reliability. For any technical support, warranty claims, or inquiries, please contact YOYDA customer service through the retailer where you purchased the product or visit the official YOYDA website for contact information.

Please retain your purchase receipt as proof of purchase for warranty purposes.

