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› GOOZEEZOO K-480WLA Active Loop Antenna Instruction Manual

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GOOZEEZOO K-480WLA Active Loop Antenna Instruction Manual

Model: K-480WLA

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1. INTRODUCTION

The GOOZEEZOO K-480WLA is an advanced portable active loop antenna designed for wideband radio reception. It offers enhanced performance over previous models, featuring a broader operating frequency range and integrated filtering capabilities to minimize interference. This antenna is suitable for enthusiasts and professionals requiring reliable signal reception across various bands.

Key features include:

- **Latest Version:** Upgraded K-480WLA with new operating frequency, gain, and circuit design.
- **Excellent Reception:** First active antenna with built-in MW and FM bandstop filters for selective signal reception and out-of-band interference suppression. Features an ultra-high frequency low noise amplification device with 0-30dB continuously adjustable gain.
- **Ultra-wide Frequency:** Covers 0.5-500MHz, including MW, SW, FM, AIR, 6m, UHF, and VHF bands. Provides excellent receiving directivity to avoid interference and improve signal-to-noise ratio.
- **Easy to Assemble:** Compact 68CM diameter loop, designed for outdoor installation on balconies, terraces, or rooftops. Constructed with 304 stainless steel screws and a waterproof black box shell for durability.
- **Suitable Models:** Compatible with various shortwave receivers such as Desheng S-2000, PL-660, PL-880, ICOM R71E, YAESU FRG-8800, Sangean909X/909X2, and SDR receivers.



Figure 1: GOOZEEZOO K-480WLA Active Loop Antenna overview.

2. SETUP

2.1 Unpacking and Component Check

Carefully unpack all components and verify against the packing list. The package typically includes the loop antenna elements, main control box, connecting cables, mounting hardware (clamps, screws), and PVC pipe sections for assembly.



Figure 2: K-480WLA Loop Antenna kit components.

2.2 Antenna Assembly

1. **Assemble the Support Pole:** Connect the PVC pipe sections to form the vertical support pole. Ensure a secure fit.
2. **Attach the Main Control Box:** Secure the main control box to the support pole using the provided clamps and 304 stainless steel screws.



Figure 3: Secure the main control box to the support pole using clamps.

- 3. Install the Loop Elements:** Insert the flexible loop elements into the designated slots on the main control box. Ensure they are firmly seated.



Figure 4: Loop element installation method.

- 4. Secure the Loop with Caps:** Apply a small amount of PVC glue to fix the caps at the ends of the loop elements, ensuring the loop maintains its circular shape and is securely held. The loop diameter is approximately 68 cm.



Figure 5: Securing the loop with PVC glue and caps.



Figure 6: The distance from the fixing groove to the fixing clip is 69CM, forming the loop.

2.3 Installation Location

The K-480WLA is designed for outdoor use. Install it on a balcony, terrace, or rooftop for optimal performance. Ensure the antenna is mounted securely and away from potential sources of electrical interference. The waterproof design allows for long-term outdoor installation.



Figure 7: Example of K-480WLA antennas installed outdoors.

For best reception, consider the directionality of the antenna. The green arrows indicate the direction of VHF band reception, while the yellow arrows indicate the direction of HF reception.

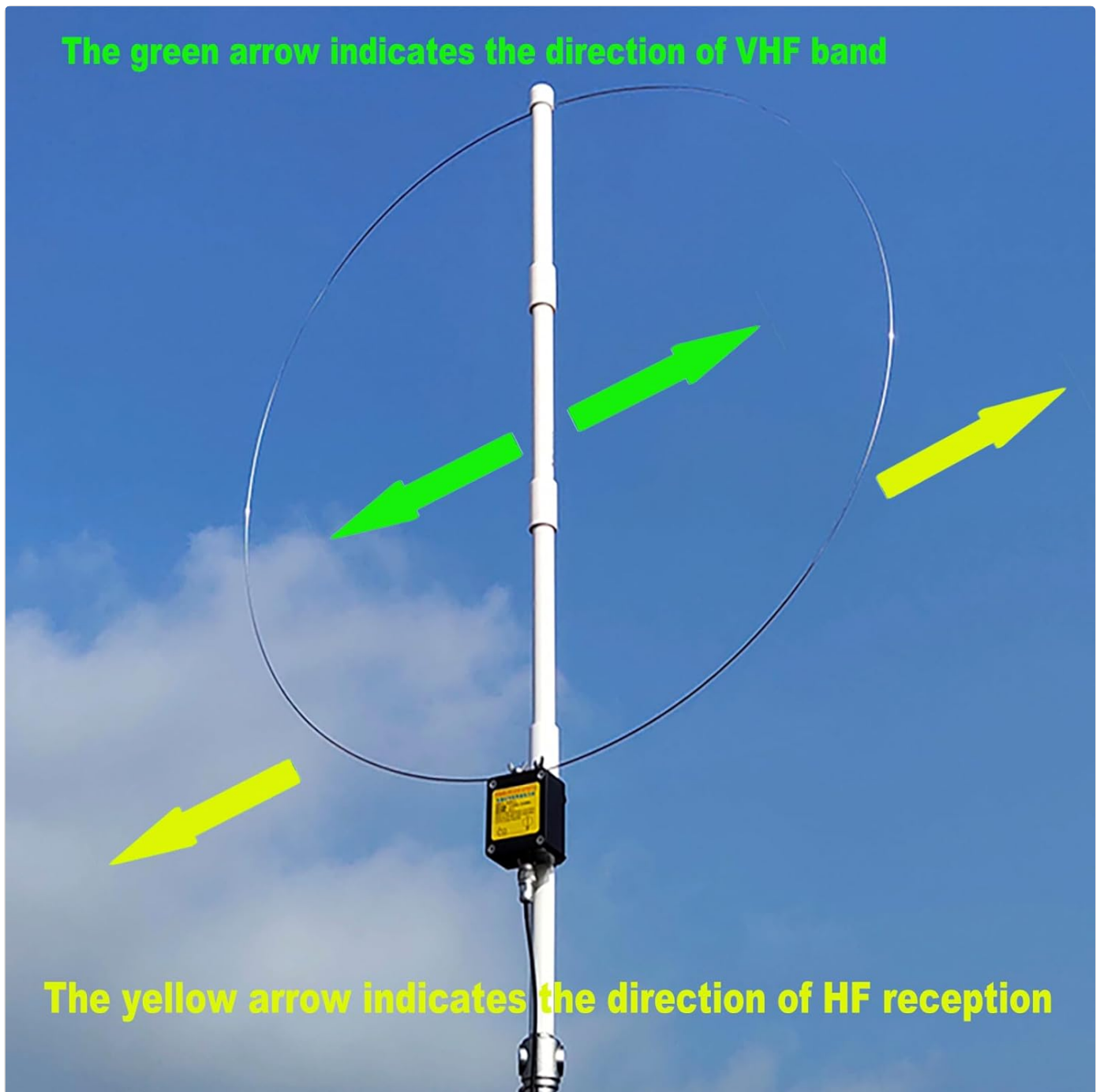


Figure 8: Directional reception for VHF (green arrows) and HF (yellow arrows) bands.

2.4 Connecting to a Receiver

Connect the K-480WLA antenna to your radio receiver using the appropriate cable. The antenna is compatible with BNC female, TV male, F female, SMA male connectors, and 3.5mm jacks. Ensure a secure connection to prevent signal loss.

Excellent Reception

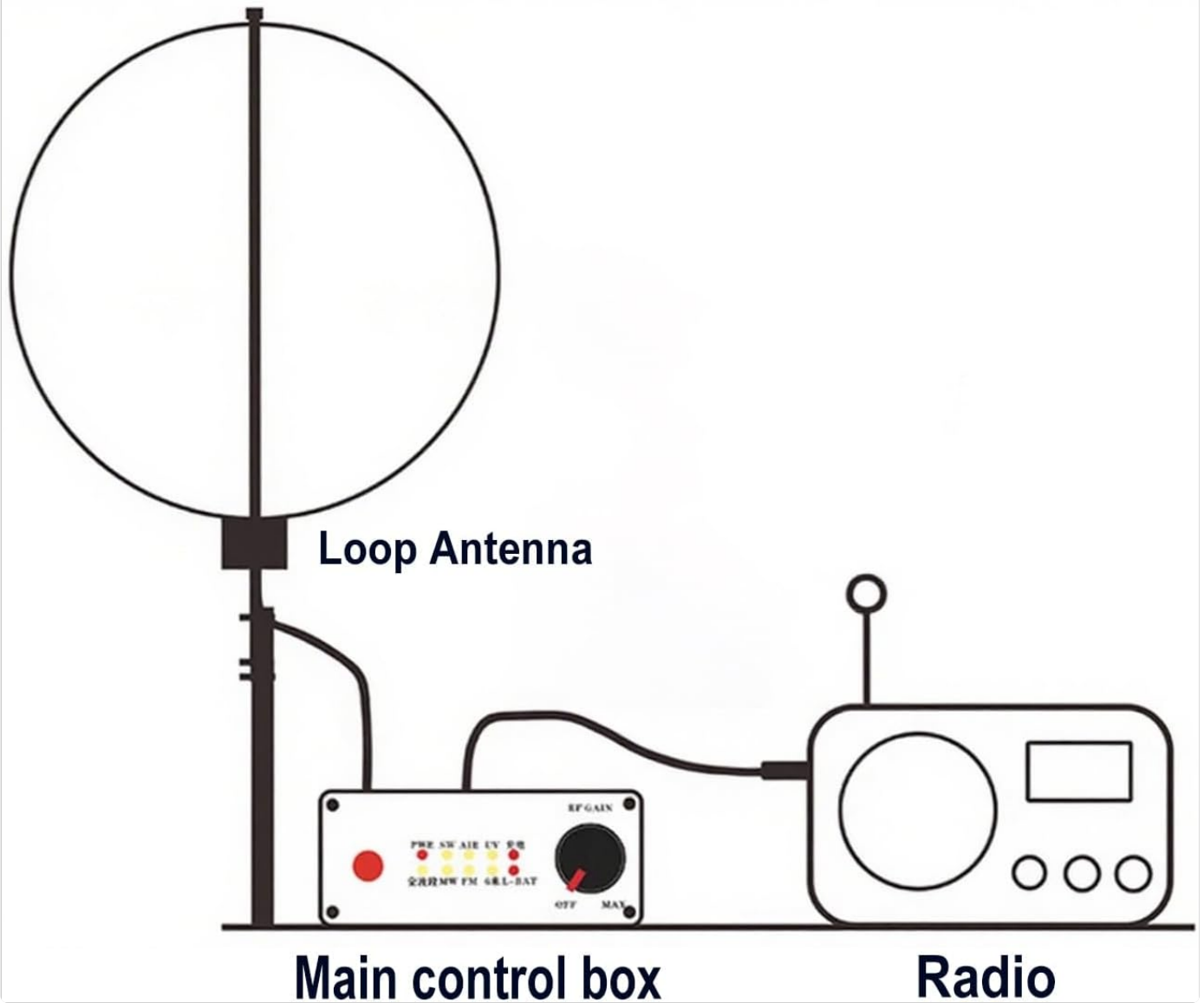


Figure 9: Connection diagram of the loop antenna to a radio receiver.

Wide Compatibility

It works with BNC female, TV male, F female, SMA male connectors, and 3.5mm jacks



Figure 10: Front panel of the K-480WLA control box.



Figure 11: Rear panel of the K-480WLA control box showing connection ports.

3. OPERATION

3.1 Powering On and Gain Control

The K-480WLA features an integrated 1800mAh Lithium Ion battery. Ensure the battery is charged before use. Turn on the unit using the power button. Adjust the RF Gain knob to optimize signal strength. The gain is continuously adjustable from 0-30dB.

3.2 Band Selection and Filtering

The control box includes indicator lights for different frequency bands: PWR (Power), SW (Shortwave), AIR (Airband), UV (UHF/VHF), 6M (6 Meters), FM, MW, and L-BAT (Low Battery). Select the appropriate band for your desired reception. The built-in MW and FM bandstop filters help to suppress interference in those specific bands, improving clarity for other frequencies.

Ultra-wide Frequency



All Band: 0.5 - 500 MHz(up to 1GHz)

MW: 0.5-2MHz

FM: 70-108MHz

SW: 2-30MHz

Air:118-170MHz

UV(UHF VHF):136-500MHz

6 Meter: 30-60MHz

Figure 12: Comparison of K-180WLA and K-480WLA features, highlighting band coverage and gain.

3.3 Video Demonstration of Operation

The following video demonstrates the operation of the K-480WLA antenna in conjunction with a radio receiver, showcasing its performance across different bands and the effect of its filtering capabilities.

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Video 1: Demonstration of the GOOZEEZOO K-480WLA Loop Antenna's reception and band switching with a radio receiver.

4. MAINTENANCE

To ensure the longevity and optimal performance of your K-480WLA antenna, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically clean the antenna elements and control box with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Inspect Connections:** Regularly check all cable connections for tightness and signs of corrosion. Ensure the loop elements are securely attached.

- **Battery Care:** Charge the internal 1800mAh battery regularly, especially if the unit will be stored for an extended period. Avoid fully discharging the battery frequently.
- **Environmental Protection:** While the control box is waterproof, extreme weather conditions can still affect performance. If possible, protect the antenna from severe storms or prolonged exposure to direct sunlight when not in use.

5. TROUBLESHOOTING

If you encounter issues with your K-480WLA antenna, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No signal or weak reception	<ul style="list-style-type: none"> • Incorrect band selected. • Low battery. • Loose cable connections. • High local interference. • Antenna not optimally positioned. 	<ul style="list-style-type: none"> • Verify the correct band is selected on the control box. • Charge the battery. • Check all connections between the antenna, control box, and receiver. • Relocate the antenna away from electronic devices or power lines. • Adjust antenna orientation or height for better signal.
Excessive noise or static	<ul style="list-style-type: none"> • High RF gain setting. • Proximity to noise sources. • Filter not engaged (for MW/FM). 	<ul style="list-style-type: none"> • Reduce the RF Gain using the knob. • Move the antenna or receiver away from noise-emitting devices. • Ensure the appropriate band filter is active if applicable.
Control box indicator lights not working	<ul style="list-style-type: none"> • Unit not powered on. • Battery fully discharged or faulty. 	<ul style="list-style-type: none"> • Press the power button. • Charge the battery. If the issue persists, contact support.

6. SPECIFICATIONS

Feature	Detail
Model	K-480WLA
Operating Frequency	0.5MHz - 500MHz (Full Band)
Gain	0-30dBi (Continuously adjustable)
Band Coverage	LW, MW, SW, FM, AIR, 6m, UHF, VHF
Built-in Filters	MW and FM bandstop filters
Antenna Diameter	68 cm
Battery	1800mAh Lithium Ion (included)
Feeder Cable Length	10 Meters
Product Dimensions (Control Box)	8.5 x 8.3 x 2.2 inches (approximate)
Item Weight	2.57 pounds
Material	304 Stainless Steel (screws), Waterproof Black Box Shell

7. WARRANTY & SUPPORT

7.1 Warranty Information

GOOZEEZOO products typically come with a warranty. Please refer to your purchase documentation for specific warranty terms and duration. Standard return policy allows for returns within 30 days for refund or replacement.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact GOOZEEZOO customer support. Our company is dedicated to providing superior listening experiences and endless enjoyment, with a team of skilled engineers ready to provide expert answers and top-notch service.

- **Response Time:** 24 Hours Quick Respond
- **Warranty Period:** 36 Months Longtime Warranty
- **Satisfaction:** 100% Customer Satisfaction

You can visit the official GOOZEEZOO store on Amazon for more information and contact options: [GOOZEEZOO Store](#)

