

Eightwood EWUA0087

Eightwood 2.4GHz 5GHz Dual Band WiFi Antenna Instruction Manual

Model: EWUA0087

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Eightwood 2.4GHz 5GHz Dual Band WiFi Antenna. Please read these instructions carefully before use to ensure optimal performance and longevity of the product.

2. PRODUCT FEATURES

- **Dual Band Support:** Operates on both 2.4GHz and 5GHz frequencies for extended range and faster speeds.
- **Triple RP-SMA Connectors:** Designed for devices requiring three antenna connections.
- **Magnetic Base:** Allows for secure and flexible placement on metal surfaces.
- **Long Extension Cable:** A 6.5-foot (2-meter) cable provides flexibility in positioning the antenna for optimal signal reception.
- **Omnidirectional:** Receives signals from all directions.
- **Wide Compatibility:** Suitable for wireless network routers, WLAN APs, hotspots, range extenders, PCI/PCIe network WiFi cards, PC desktop computers, external WiFi USB adapters, and built-in WiFi Bluetooth motherboards.

3. PACKAGE CONTENTS

- 1 x Eightwood 2.4GHz 5GHz Dual Band WiFi Antenna with Magnetic Base and 6.5ft Cable

4. SPECIFICATIONS

Feature	Specification
Gain	6dBi
VSWR	≤1.5
Impedance	50 Ohms
Frequency Range	2.4GHz, 5GHz
Support Standards	802.11 b/g/n/ac
Direction	Omnidirectional
Polarization	Linear Vertical
Max. Input Power	50W
Antenna Height (with base)	7.72 inches (19.6 cm)
Extension Cable Length	6.5 feet (2 meters)
Antenna Connector	3 x RP-SMA Male (inside threads with NO center pin)
Color	Black

5. SETUP INSTRUCTIONS

Follow these steps to properly install your Eightwood WiFi antenna:

1. **Identify Connectors:** Ensure your device has three RP-SMA Female connectors. The antenna features RP-SMA Male connectors (reversed polarity, no center pin on the antenna side).



Image: Close-up view of the three RP-SMA male connectors on the antenna cable. Note the internal threads and absence of a center pin, which is characteristic of RP-SMA male connectors.



Image: A diagram illustrating the correct connection between an RP-SMA Male antenna connector and an RP-SMA Female port, typically found on a PCIe WiFi network card. Verify your device's port type before connecting.

- 2. Connect Antenna:** Carefully screw the three RP-SMA male connectors from the antenna cable onto the corresponding RP-SMA female ports on your wireless device (e.g., WiFi router, PCIe network

card). Hand-tighten only; do not overtighten.

3. **Position the Antenna:** Place the magnetic base of the antenna in a location that offers optimal signal reception. The strong magnetic base allows it to be securely attached to metal surfaces, such as a computer case or a metal shelf. The 6.5-foot cable provides flexibility to move the antenna away from the device itself.



Image: This diagram highlights the features of the antenna base, including its strong magnetic attachment, the 120-degree rotatable antennas for directional adjustment, and the generous 6.5-foot cable length for flexible placement.

4. **Adjust Antennas:** The individual antennas on the base are rotatable up to 120 degrees. Adjust their orientation to fine-tune signal reception. Experiment with different angles to find the best signal strength for your environment.
5. **Verify Connection:** Once connected, power on your device and check your network settings to confirm that the external antenna is recognized and providing an improved signal.

Note: The antenna's dimensions are approximately 7.7 inches in height (including the magnetic base) and the base is about 3.3 inches wide.



Image: The Eightwood WiFi antenna shown with its approximate dimensions: 7.7 inches in total height and a base width of 3.3 inches.

6. OPERATING INSTRUCTIONS

Once installed, the Eightwood WiFi antenna operates passively to enhance your device's wireless signal. No additional software or configuration is typically required for the antenna itself.

- **Signal Improvement:** The antenna is designed to extend range and improve WiFi and Bluetooth performance by providing a more stable and stronger signal.
- **Dual Band Operation:** The antenna automatically works with both 2.4GHz and 5GHz bands, depending on your device's settings and the network it connects to. The 2.4GHz band generally offers better range, while the 5GHz band provides faster speeds over shorter distances.
- **Optimal Placement:** For best results, place the antenna in an elevated position, free from

obstructions, and away from other electronic devices that may cause interference. The magnetic base and long cable facilitate flexible placement.



Image: An illustration depicting the Eightwood antenna centrally located, providing stable WiFi signals to various devices such as smartphones, computers, printers, and security cameras within a home network.

7. MAINTENANCE

The Eightwood WiFi antenna requires minimal maintenance.

- **Cleaning:** Periodically wipe the antenna and base with a soft, dry cloth to remove dust. Do not use liquid cleaners or solvents.
- **Inspection:** Regularly check the cable and connectors for any signs of damage. If damage is observed, discontinue use and replace the antenna.
- **Placement:** Ensure the magnetic base remains securely attached to its surface to prevent accidental falls.

8. TROUBLESHOOTING

If you experience issues with your antenna, refer to the following common troubleshooting steps:

No Signal or Weak Signal:

- **Check Connections:** Ensure all three RP-SMA connectors are securely attached to your device's ports.
- **Antenna Placement:** Try repositioning the antenna. Move it to a higher location, away from walls, large metal objects, or other electronics that might cause interference.
- **Antenna Orientation:** Adjust the angle of the individual antenna rods on the base. Small adjustments can sometimes significantly improve signal strength.
- **Device Compatibility:** Confirm that your device's ports are indeed RP-SMA Female. Incorrect connector types will not provide a proper connection.
- **Device Settings:** Check your device's wireless settings to ensure it is configured correctly and that external antennas are enabled if applicable.

Antenna Not Sticking to Surface:

- **Surface Material:** The magnetic base is designed for metal surfaces. Ensure the surface you are attempting to attach it to is ferromagnetic (e.g., steel, iron).
- **Surface Cleanliness:** Clean the surface and the bottom of the magnetic base to ensure a strong contact.

9. WARRANTY AND SUPPORT

The Eightwood 2.4GHz 5GHz Dual Band WiFi Antenna (Model EWUA0087) comes with a **6-month manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact Eightwood customer service through the retailer where you purchased the product or visit the official Eightwood website for contact information.

10. SAFETY INFORMATION

- Do not expose the antenna to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- Avoid bending or kinking the cable excessively, as this can damage the internal wiring.
- Keep out of reach of children.
- Do not attempt to disassemble or modify the antenna. This will void the warranty and may cause damage to the product or connected devices.
- Ensure the antenna is placed in a stable position to prevent it from falling and causing injury or damage.