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› Ubiquiti airFiber 60 GHz Long-Range Radio AF60 LR User Manual

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Model: AF60 LR

Brand: Ubiquiti Networks

1. INTRODUCTION

The Ubiquiti airFiber 60 GHz Long-Range Radio (AF60 LR) is a high-performance wireless device designed for long-range point-to-point connectivity. It operates in the low-interference 60 GHz spectrum, providing robust and high-throughput links. Key features include an integrated GPS for precise synchronization, support for links up to 12 km, and quick setup capabilities via the UISP™ App using Bluetooth.

2. SAFETY INFORMATION

Please read, follow, and keep these instructions. Heed all warnings. Only use attachments/accessories specified by the manufacturer. Failure to do so may result in property damage, serious injury, or death. This device is intended for outdoor installation. Use only shielded Ethernet cable for outdoor installations to ensure proper grounding and reduce the risk of ESD damage. Do not operate this device without proper grounding.

3. PACKAGE CONTENTS

- airFiber 60 GHz Long-Range Radio (AF60 LR)
- Precision Alignment Mount
- Power over Ethernet (PoE) Adapter
- Power Cord
- Quick Start Guide

4. HARDWARE OVERVIEW

The AF60 LR unit consists of the main radio dish, an integrated antenna, and a mounting assembly. The device features an Ethernet port for data and power, a reset button, and LED indicators for status and signal strength.



Figure 1: Front view of the Ubiquiti airFiber 60 GHz Long-Range Radio AF60 LR. This image shows the circular dish antenna with the central feed horn and the Ubiquiti logo.



Figure 2: Front view of the AF60 LR with the mounting arm attached. The arm extends from the central feed horn to the edge of the dish, providing structural support.



Figure 3: Side view of the AF60 LR, illustrating the robust mounting bracket and its adjustment mechanism for precise aiming.



Figure 4: Rear view of the AF60 LR with the protective cover removed, revealing the Ethernet port and the reset button for device management.

5. SETUP

5.1 Mounting the Device

1. **Select a Mounting Location:** Choose a stable pole or mast that can support the device and provide a clear line of sight to the other end of the link.
2. **Attach the Mounting Bracket:** Secure the precision alignment mount to the pole using the provided hardware. Ensure it is firmly tightened.
3. **Attach the AF60 LR:** Slide the AF60 LR onto the mounting bracket until it clicks into place. Secure it with the locking mechanism.

5.2 Connecting Power and Data

1. **Connect Ethernet Cable:** Remove the protective cover from the rear of the AF60 LR. Connect a shielded outdoor Ethernet cable to the Ethernet port.
2. **Connect to PoE Adapter:** Connect the other end of the Ethernet cable to the 'PoE' port on the included Power over Ethernet (PoE) adapter.
3. **Connect to Network/Power:** Connect another Ethernet cable from the 'LAN' port of the PoE adapter to your network switch or router. Plug the power cord into the PoE adapter and then into a power outlet.

5.3 Initial Configuration and Alignment

The AF60 LR can be configured using the Ubiquiti UISP™ mobile application via Bluetooth or through a web browser. For optimal performance, precise alignment between the two AF60 LR units is crucial. Use the integrated GPS and the alignment features of the UISP™ app or web interface to fine-tune the aiming until maximum signal strength is achieved.

6. OPERATING

Once installed and configured, the AF60 LR operates as a transparent bridge, extending your network wirelessly. Monitor link status and performance through the UISP™ application or the device's web interface. The LED indicators on the device provide a quick visual reference for power, Ethernet activity, and signal strength.

7. MAINTENANCE

- **Cleaning:** Periodically inspect the device for dirt, dust, or debris. Gently clean the dish surface and housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Regularly check for and apply firmware updates from the Ubiquiti support website. Firmware updates often include performance improvements, security enhancements, and bug fixes.
- **Environmental Checks:** Ensure the mounting remains secure and that no obstructions have appeared in the line of sight.

8. TROUBLESHOOTING

- **No Power:** Verify the PoE adapter is connected correctly to power and the Ethernet cable is securely connected to the AF60 LR. Check the power outlet.
- **No Link/Low Signal:** Ensure both AF60 LR units are powered on and properly aligned. Check for any physical obstructions between the units. Verify configuration settings for frequency and channel.
- **Network Connectivity Issues:** Confirm that the Ethernet cables are functional and properly connected to your network infrastructure. Check IP address settings and gateway configurations.
- **Resetting the Device:** If the device is unresponsive, press and hold the reset button for approximately 10 seconds to restore factory default settings.

9. SPECIFICATIONS

Feature	Specification
Model	AF60 LR
Brand	Ubiquiti Networks

Feature	Specification
Operating Frequency	57 GHz to 71 GHz
Maximum Range	Up to 12 km (39600 Feet)
Antenna Type	Integrated GPS
Number of Channels	2
Item Weight	3.31 pounds
Color	White
UPC	810010073433
Date First Available	March 6, 2021

10. REGULATORY COMPLIANCE

This device complies with relevant regulatory standards for radio frequency devices. For detailed compliance information, please refer to the official Ubiquiti Networks documentation available on their support website.

11. WARRANTY AND SUPPORT

Ubiquiti Networks provides a limited warranty for this product. For specific warranty terms and conditions, please visit the official Ubiquiti Networks website. Technical support and additional resources, including updated documentation and firmware, are also available through their support portal.

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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