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> [WAVLINK WiFi 7 BE5100 Outdoor WiFi Extender \(Model WL-WN573HBE2\) - Instruction Manual](#)

## WAVLINK WL-WN573HBE2

# WAVLINK WiFi 7 BE5100 Outdoor WiFi Extender (Model WL-WN573HBE2)

Instruction Manual

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, configuration, and operation of your WAVLINK WiFi 7 BE5100 Outdoor WiFi Extender. This device is designed to provide robust and high-speed wireless connectivity in outdoor environments, supporting multiple operating modes to suit various networking needs.

## 2. WHAT'S IN THE BOX

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- 1 x WAVLINK WiFi 7 BE5100 Outdoor WiFi Extender
- 4 x Omni-directional Detachable Fiberglass Antennas
- 1 x PoE Adapter
- 1 x AC Power Adapter
- 1 x RJ45 Ethernet Cable
- 1 x Wall Mounting Kit
- 1 x Installation Guide



Figure 2.1: Package Contents

### 3. PRODUCT OVERVIEW

The WAVLINK WiFi 7 BE5100 is a high-performance outdoor wireless device featuring the latest Wi-Fi 7 technology. It offers dual-band operation, robust outdoor protection, and flexible deployment options.

#### 3.1 Key Features

- **Dual Band WiFi 7 (802.11be) Standard:** Achieves speeds of up to 4323 Mbps on the 5 GHz band and 688 Mbps on the 2.4 GHz band, utilizing 4-stream technology for optimized signal distribution.
- **Extended Range:** Equipped with 4x 8dBi omni-directional detachable fiberglass antennas and two built-in high-power amplifiers, providing up to 300m (radius) WiFi coverage and supporting up to 256 connected devices.
- **Power over Ethernet (PoE) Support:** Compatible with both 802.3AF/AT active and passive PoE for flexible power options. Note: The PoE converter is not waterproof and should be protected from moisture.
- **Multiple Working Modes:** Supports AP, Router, Repeater, Mesh AP, and Mesh Extender modes to adapt to various network setups. Mesh mode is compatible with other WAVLINK series products.
- **Outdoor Durability:** Features an IP67 waterproof housing, 15 KV ESD protection, and 6 KV lightning protection, ensuring reliable operation in harsh weather conditions (rain, snow, wind, thunder).

**WAVLINK**

**WiFi 7**

**Upgrade Your Outdoor Network with WiFi 7**

BE5100 Dual-Band WiFi 7 Outdoor WiFi Extender  
**WL-WN573HBE2**

- 5100Mbps Dual-Band (5G/2.4G)
- 2.5G LAN/WAN
- 1X PoE 802.3AT/AF

Figure 3.1: Product Features Overview

**No Fear of Harsh Environment**

IP67 Waterproof & Dustproof, 15KV ESD, and 4KV Lightning Protection

- Sun
- Rain
- Snow
- Thunder
- Wind
- Frost

Figure 3.2: Designed for Harsh Outdoor Conditions

### 3.2 Components

The device includes four external antennas and a 2.5 Gigabit Ethernet port for WAN/LAN connectivity. A reset button is also present for factory reset or WPS pairing.

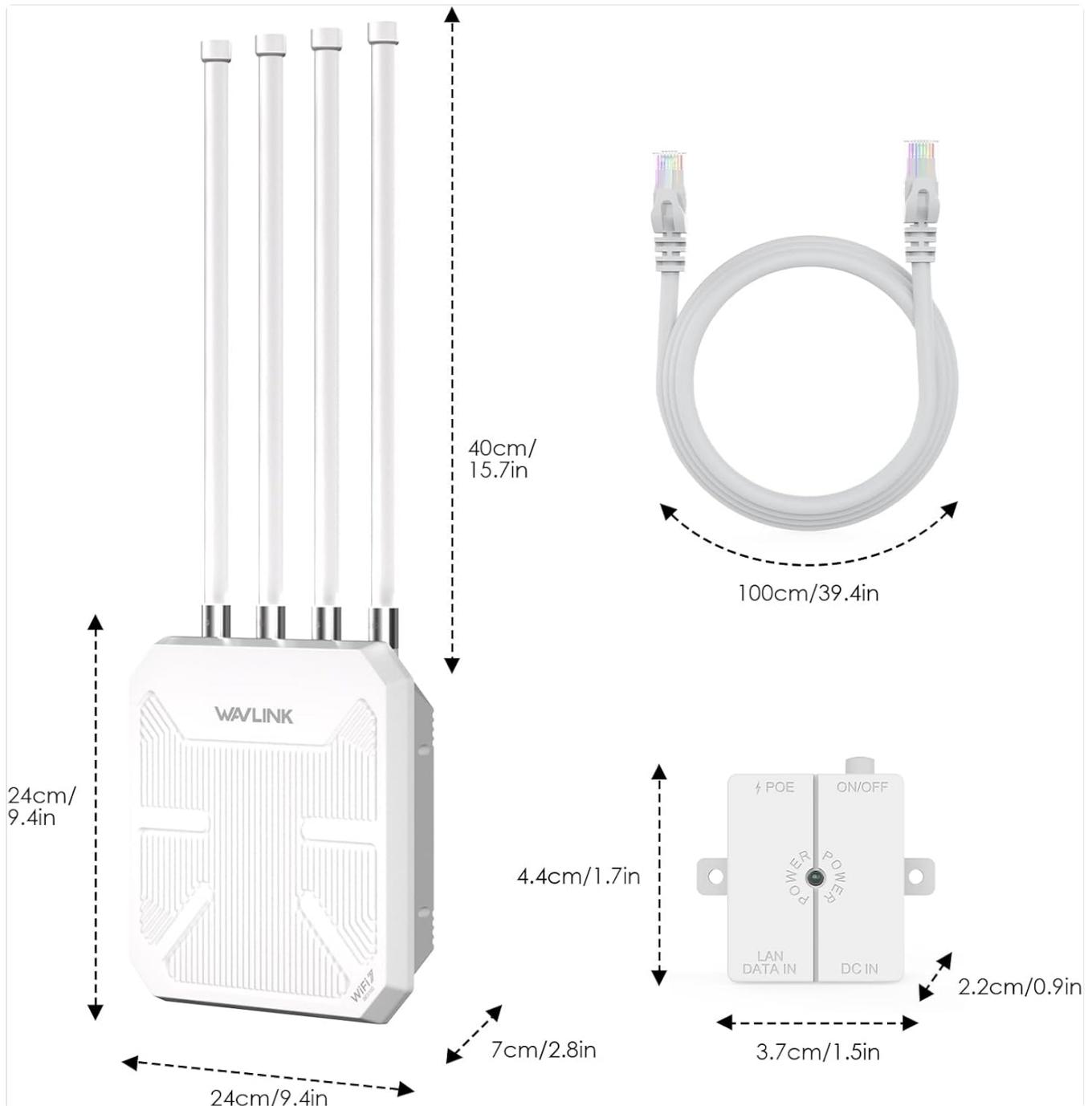


Figure 3.3: Product Dimensions

## 4. SETUP & INSTALLATION

Follow these steps to set up your WAVLINK WiFi 7 BE5100 Outdoor WiFi Extender.

### 4.1 Antenna Installation

Carefully screw the four omni-directional detachable fiberglass antennas into their respective ports on the top of the extender unit. Ensure they are securely tightened.

### 4.2 Power over Ethernet (PoE) Connection

The device is powered via Power over Ethernet. Connect an Ethernet cable (CAT5E or above, not exceeding 100m/328ft) from your network source (router/modem) to the 'LAN DATA IN' port on the PoE adapter. Then, connect another Ethernet cable from the 'POE' port on the adapter to the 2.5G WAN/LAN port on the bottom of the extender.

Finally, connect the AC power adapter to the PoE adapter and a power outlet.

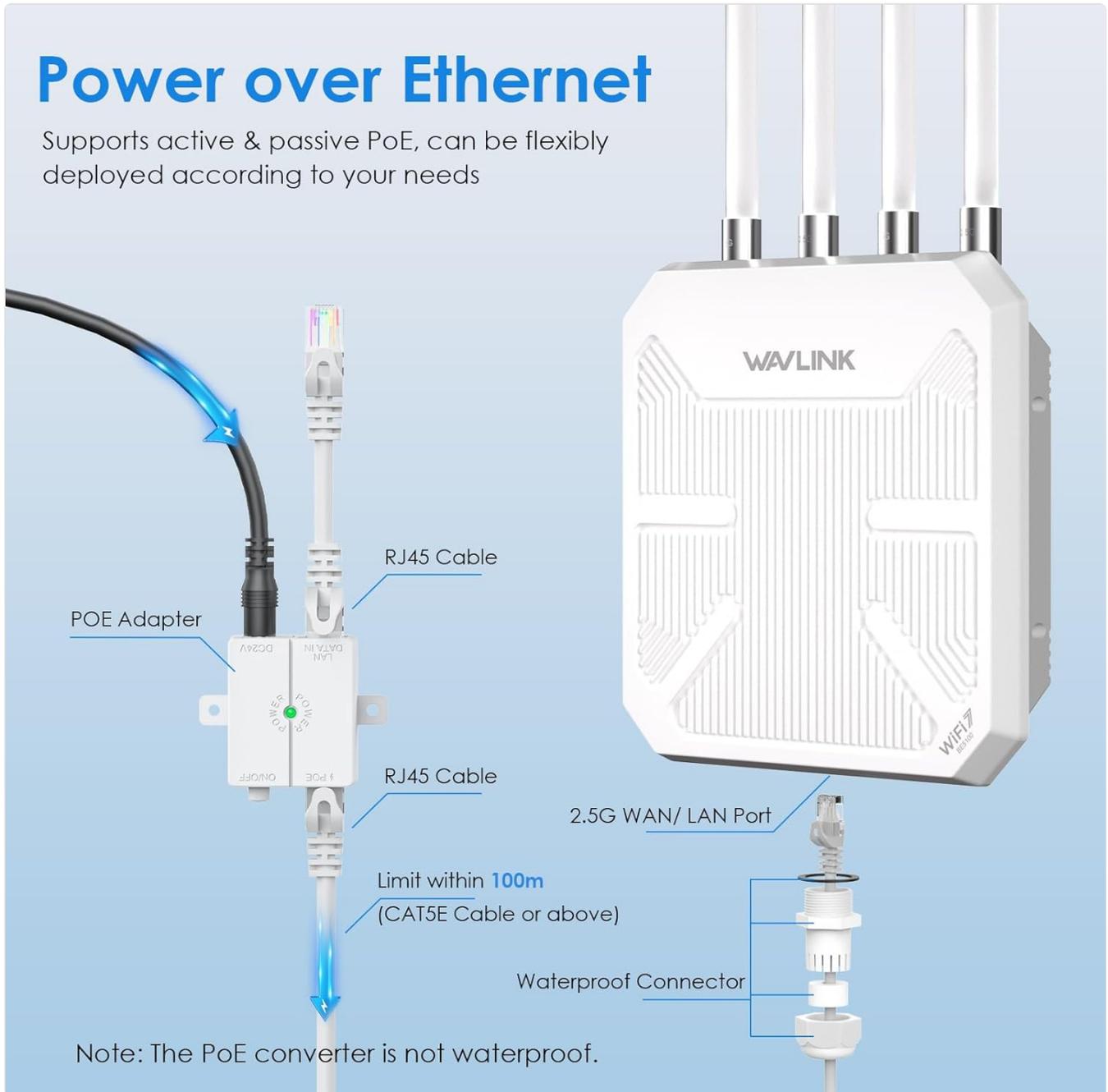


Figure 4.1: PoE Connection Diagram

### 4.3 Physical Mounting

Use the provided wall mounting kit to securely attach the extender to a pole or wall in your desired outdoor location. Ensure the device is positioned for optimal signal coverage and away from major obstructions.



Figure 4.2: Mounting Steps

### 4.4 Initial Configuration

After physical installation and power-up, connect a computer or mobile device to the extender's default Wi-Fi network (SSID usually found on the device label or quick start guide). Open a web browser and navigate to the default login

address (e.g., waplogin.link or 192.168.11.1). Follow the on-screen prompts to set up your desired operating mode, Wi-Fi name (SSID), and password.

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Video 4.3: Unboxing and Initial Setup Guide

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Video 4.4: Detailed Setup and Configuration Walkthrough

## 5. OPERATING MODES

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The WAVLINK BE5100 supports several operating modes to provide flexibility for different network requirements:

- **AP Mode (Access Point):** Converts a wired network connection into a wireless one, allowing wireless devices to connect.
- **Repeater Mode:** Extends the coverage of an existing wireless network by repeating its signal.
- **Router Mode:** Functions as a primary router, connecting directly to your internet service provider's modem and creating a new wireless network.
- **Mesh AP Mode:** Acts as the main access point in a Mesh network, providing seamless Wi-Fi coverage with a single SSID.
- **Mesh Extender Mode:** Expands an existing Mesh network, working with other WAVLINK Mesh products to eliminate Wi-Fi dead zones.

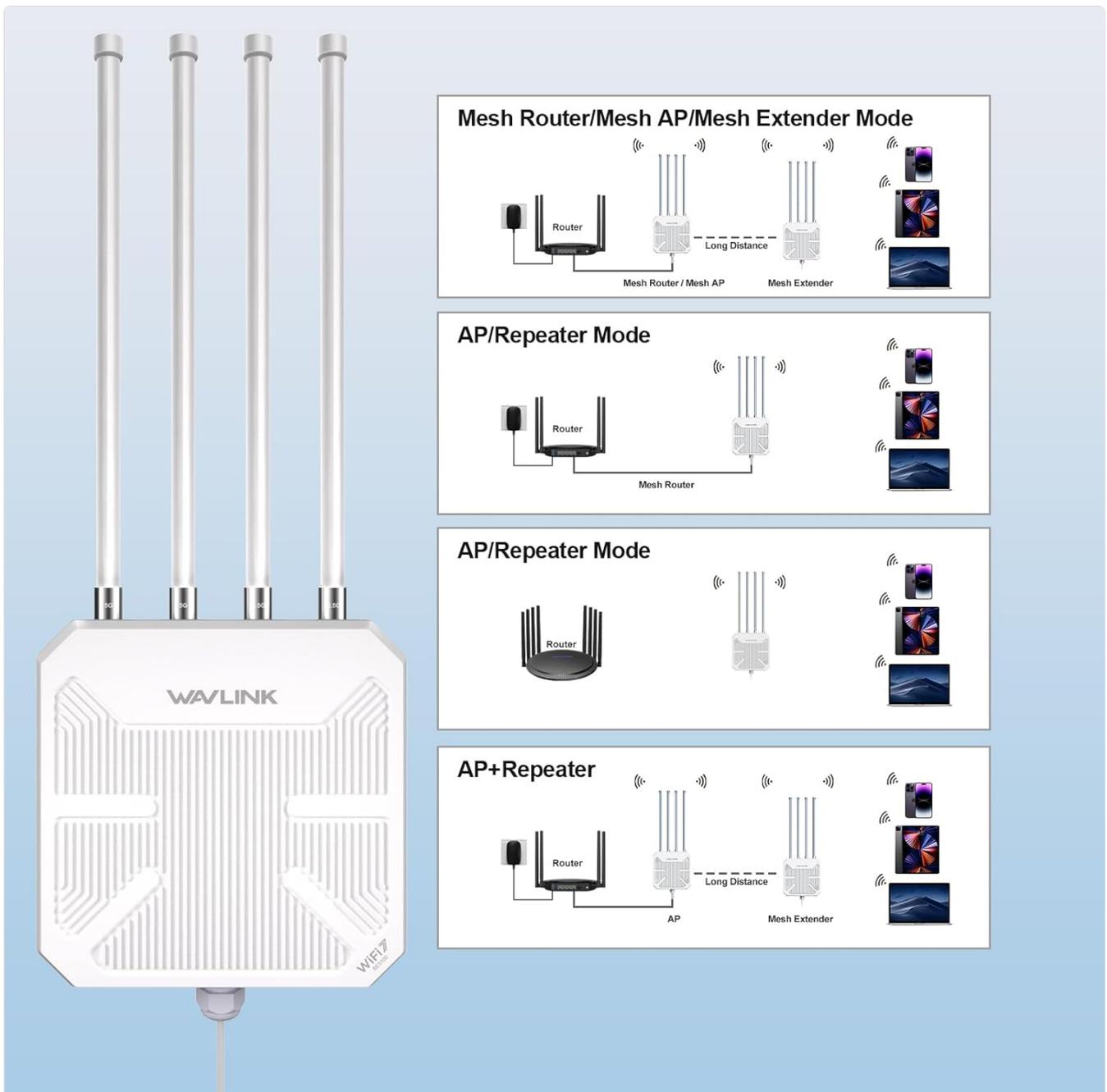


Figure 5.1: Multiple Working Modes

## 6. CONFIGURATION

Access the web-based management interface to customize your extender's settings.

### 6.1 Accessing the Web Interface

Connect your device to the extender's Wi-Fi network or via an Ethernet cable. Open a web browser and enter the default IP address (e.g., 192.168.11.1) or domain name (e.g., waplogin.link) into the address bar. Log in using the administrator credentials you set during initial setup.

### 6.2 Key Settings

- **Wireless Settings:** Configure SSID, encryption method (WPA2-PSK recommended), and password for both 2.4 GHz and 5 GHz bands. Enable Multi-Link Operation (MLO) for optimal WiFi 7 performance.
- **Guest Wi-Fi:** Create a separate Wi-Fi network for guests, providing secure access without compromising your main network.
- **Signal Adjustment:** Adjust the transmit power of the antennas (High, Medium, Low) to optimize coverage and

minimize interference.

- **Firmware Update:** Regularly check for and install firmware updates to ensure optimal performance and security.

## 7. SPECIFICATIONS

Feature	Description
Model Number	WL-WN573HBE2
Wireless Standard	802.11be (WiFi 7), 802.11a/b/g/n/ac, 802.11ax
Data Transfer Rate	Up to 5100 Mbps (4323 Mbps on 5 GHz, 688 Mbps on 2.4 GHz)
Frequency Band	Dual-Band
Antennas	4 x 8dBi Omni-directional Detachable Fiberglass Antennas
Ethernet Port	1 x 2.5 Gbps Ethernet (WAN/LAN)
PoE Support	802.3AF/AT Active & Passive PoE
Waterproof Rating	IP67
Protection	15 KV ESD Protection, 6 KV Lightning Protection
Product Dimensions	17.32 x 12.99 x 3.54 inches
Item Weight	1.87 pounds

## 8. OPERATING THE WAVLINK WiFi 7 BE5100

Once configured, the WAVLINK BE5100 operates autonomously based on the selected mode. Ensure the device has a stable power supply and a clear line of sight to the areas requiring Wi-Fi coverage for optimal performance.

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Video 8.1: Product Overview and Performance Demonstration

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Video 8.2: Outdoor Speed and Range Test

## 9. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your outdoor extender.

- **Cleaning:** Periodically clean the exterior of the device to remove dust, dirt, or debris. Use a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the web interface regularly for available firmware updates and install them to benefit from performance improvements and security patches.
- **Cable Inspection:** Periodically inspect the Ethernet cable and power connections for any signs of wear or damage. Ensure waterproof seals are intact.

## 10. TROUBLESHOOTING

If you encounter issues with your WAVLINK BE5100, try the following steps:

- **No Power:** Ensure the PoE adapter is correctly connected to a power source and the extender. Check all cable connections.
- **No Internet Access:** Verify that your main router/modem has an active internet connection. Check the Ethernet cable connection between the PoE adapter and your network source.
- **Weak Signal/Poor Performance:** Adjust the extender's position for better line of sight. Ensure antennas are securely attached. Check for physical obstructions. Adjust signal adjustment settings in the web interface to 'High'.
- **Cannot Access Web Interface:** Ensure your device is connected to the extender's Wi-Fi or via Ethernet. Try restarting the extender. Verify the correct IP address or domain name.
- **Factory Reset:** If problems persist, perform a factory reset by pressing and holding the reset button for approximately 10 seconds until the indicator lights change. Note: This will erase all custom settings.

## 11. WARRANTY & SUPPORT

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WAVLINK products come with a manufacturer's warranty. For technical support, warranty claims, or further assistance, please contact WAVLINK customer service:

- **Phone Support:** +1 888 973 0883 (UTC-5) Mon - Fri 9 AM - 6 PM
- **Email Support:** [Contact@wavlink.com](mailto:Contact@wavlink.com)
- Life-long technical support is provided.