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> [NETGEAR EX6100 AC750 WiFi Mesh Range Extender Instruction Manual](#)

NETGEAR EX6100

NETGEAR EX6100 AC750 WiFi Mesh Range Extender Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your NETGEAR EX6100 AC750 WiFi Mesh Range Extender. The EX6100 is designed to boost your existing Wi-Fi network, extending coverage to eliminate dead zones and improve wireless performance for devices such as laptops, tablets, and smartphones throughout your home or office.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- AC750 Wi-Fi Range Extender
- Installation Guide

3. PRODUCT OVERVIEW

The NETGEAR EX6100 is a compact, wall-plug Wi-Fi range extender designed to seamlessly integrate with your existing wireless network. It features dual-band AC750 Wi-Fi for speeds up to 750Mbps and includes a wired Ethernet port for connecting devices directly.



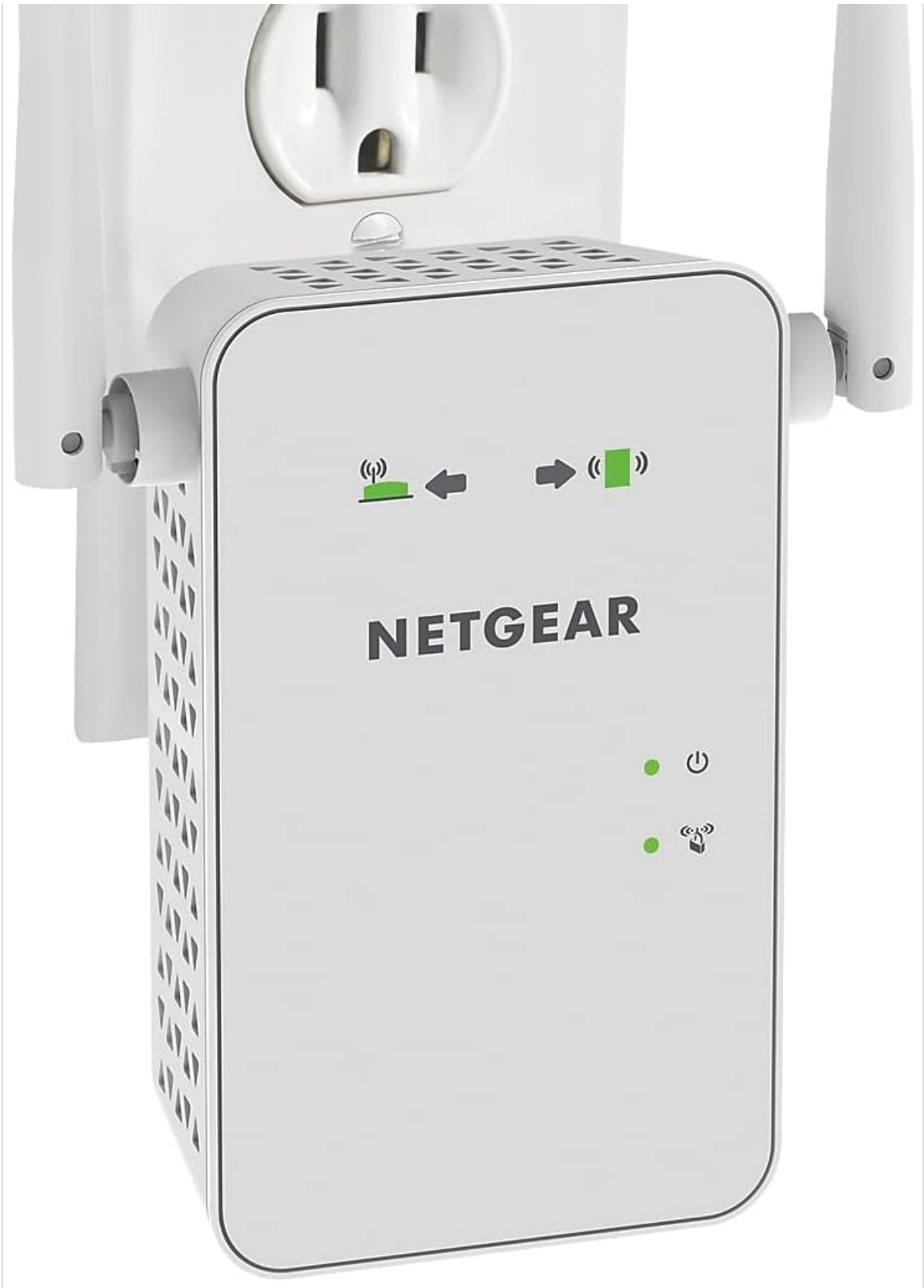


Figure 1: Front view of the NETGEAR EX6100 Extender plugged into a wall outlet.





Figure 2: Side view of the NETGEAR EX6100 Extender, highlighting the Ethernet port and controls.

Key Features:

- **Extended Wireless Coverage:** Adds WiFi range coverage up to 1000 sq ft, connecting up to 15 devices.
- **Seamless Smart Roaming:** Utilizes your existing network SSID name for uninterrupted connectivity.

- **AC750 WiFi Speed:** Delivers up to 750Mbps performance with dual-band and FastLane™ technology for streaming and gaming.
- **Universal Compatibility:** Works with any wireless router, gateway, or cable modem with WiFi.
- **Wired Ethernet Port:** Provides a Gigabit port for direct connection of wired devices.
- **Safe & Secure:** Supports WEP and WPA/WPA2 wireless security protocols.
- **Simple Setup:** Can be set up using the Nighthawk app or a web browser.

4. SETUP INSTRUCTIONS

There are two primary methods to set up your NETGEAR EX6100 Range Extender: using the Nighthawk app or a web browser.

4.1. Method 1: Using the Nighthawk App

1. Download the NETGEAR Nighthawk app from your mobile device's app store.
2. Plug the extender into an electrical outlet.
3. Open the Nighthawk app and follow the on-screen instructions to detect and configure your extender.
4. The app will guide you through connecting to your existing Wi-Fi network and setting up the extender's network name and password.

Note: Specific video content for app setup was not provided in the product data.

4.2. Method 2: Using a Web Browser (WPS or Manual)

WPS (Wi-Fi Protected Setup) Method:

1. Plug the extender into an electrical outlet near your router.
2. Wait for the Power LED on the extender to turn solid green.
3. Press the WPS button on the extender.
4. Within two minutes, press the WPS button on your router.
5. The Extender Link LED should turn solid green, indicating a successful connection.
6. Unplug the extender and move it to a new location, approximately halfway between your router and the area with poor Wi-Fi signal. Ensure the Extender Link LED remains solid green for optimal performance.

Manual Web Browser Method:

1. Plug the extender into an electrical outlet.
2. On a computer or mobile device, connect to the extender's default Wi-Fi network (e.g., 'NETGEAR_EXT').
3. Open a web browser and navigate to www.mywifiext.net.
4. Follow the on-screen instructions to log in and configure your extender, including selecting your existing Wi-Fi network and setting up the extended network's name and password.

Note: Specific video content for web browser setup was not provided in the product data.

5. OPERATING INSTRUCTIONS

Once your NETGEAR EX6100 is set up, it will broadcast an extended Wi-Fi signal. Devices connected to this extended network will benefit from improved coverage and signal strength.

- **Connecting Devices:** Connect your Wi-Fi devices (smartphones, tablets, laptops, etc.) to the extended Wi-Fi network name (SSID) that you configured during setup. If Smart Roaming is enabled, your devices will

automatically switch between your router and extender for the best signal.

- **Dual-Band Operation:** The EX6100 supports both 2.4 GHz and 5 GHz Wi-Fi bands. For devices requiring higher speeds (e.g., for HD streaming or online gaming), connect to the 5 GHz band. For devices that need greater range or are older, the 2.4 GHz band is suitable.
- **Wired Connection:** Use the Gigabit Ethernet port on the extender to connect a wired device, such as a gaming console, smart TV, or desktop computer, for a stable and high-speed connection.

6. MAINTENANCE

To ensure optimal performance and longevity of your NETGEAR EX6100 Range Extender, consider the following maintenance tips:

- **Firmware Updates:** Periodically check for and install firmware updates. These updates often include performance improvements, security enhancements, and bug fixes. You can usually find updates on the NETGEAR support website or through the Nighthawk app.
- **Optimal Placement:** Ensure the extender is placed in a location that provides a good signal from your main router and is centrally located to the areas needing extended coverage. Avoid placing it near large metal objects, concrete walls, or other electronic devices that might cause interference.
- **Cleaning:** Keep the extender clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosols.
- **Restarting:** If you experience intermittent connectivity issues, try restarting the extender by unplugging it from the power outlet for 10 seconds and then plugging it back in.

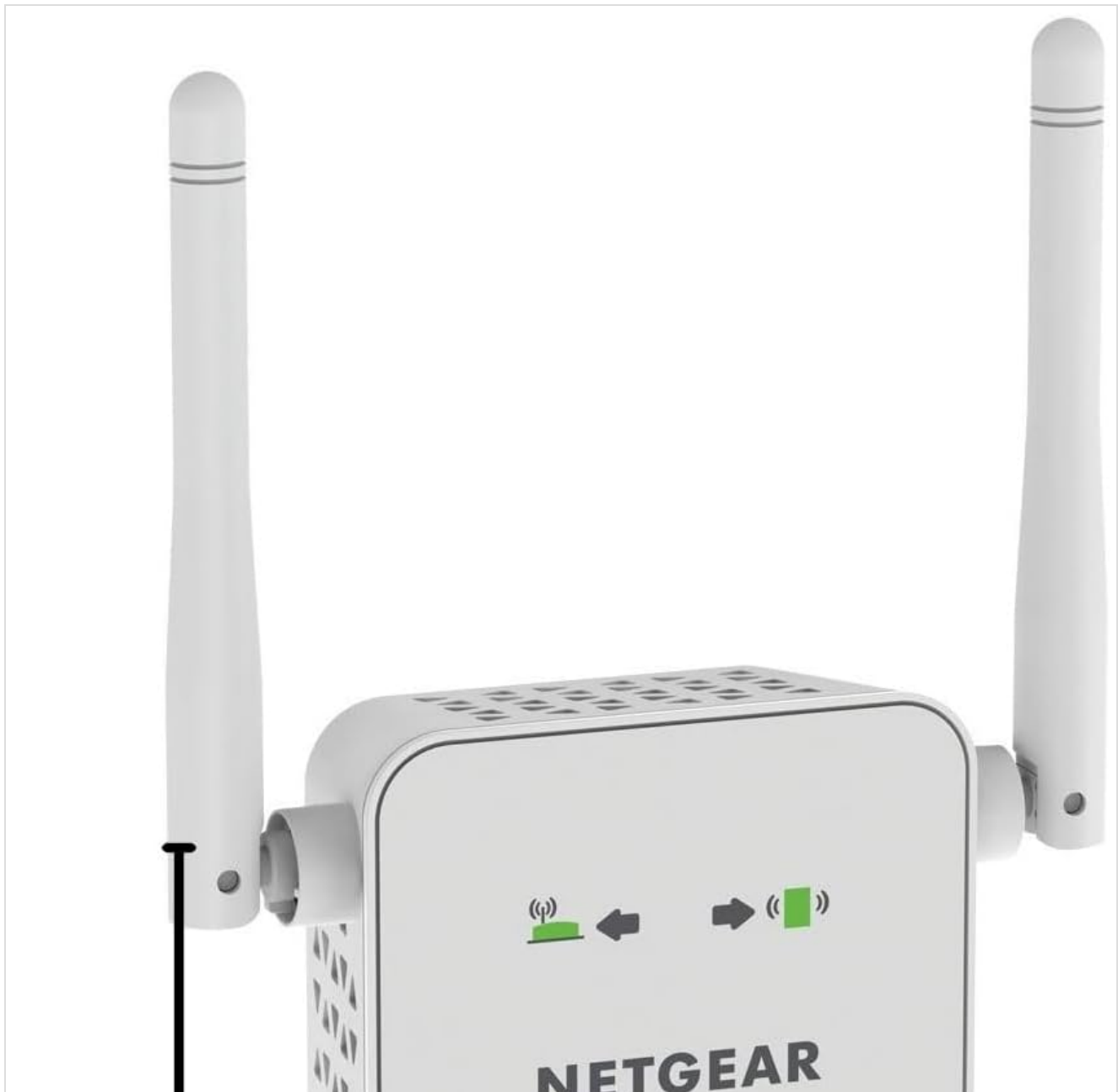
7. TROUBLESHOOTING

If you encounter issues with your NETGEAR EX6100, refer to the following common troubleshooting steps:

- **No Internet Connection:**
 - Check if your main router has an internet connection.
 - Verify that the extender is properly connected to your router's Wi-Fi network (check the Extender Link LED).
 - Try moving the extender closer to your main router.
- **Slow Wi-Fi Speed:**
 - Ensure the extender is placed optimally, not too far from the router or too close to the devices.
 - Minimize interference from other electronic devices.
 - If using the 2.4 GHz band, consider switching to the 5 GHz band for compatible devices, as it generally offers higher speeds.
 - Check for firmware updates for both your router and extender.
- **Cannot Connect to Extender's Wi-Fi:**
 - Ensure you are selecting the correct extended network name (SSID) and entering the correct password.
 - Restart the extender and try connecting again.
 - Perform a factory reset (refer to Figure 2 for button location) and reconfigure the extender if issues persist.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	NETGEAR
Model Number	EX6100-100NAS
Wireless Type	802.11a/b/g/n/ac
Data Transfer Rate	750 Megabits Per Second
Frequency Band Class	Dual-Band
Item Weight	13.6 ounces
Product Dimensions (LxWxH)	7.09 x 5.71 x 3.98 inches
Color	White
Voltage	100-240 Volts
First Available	January 23, 2014



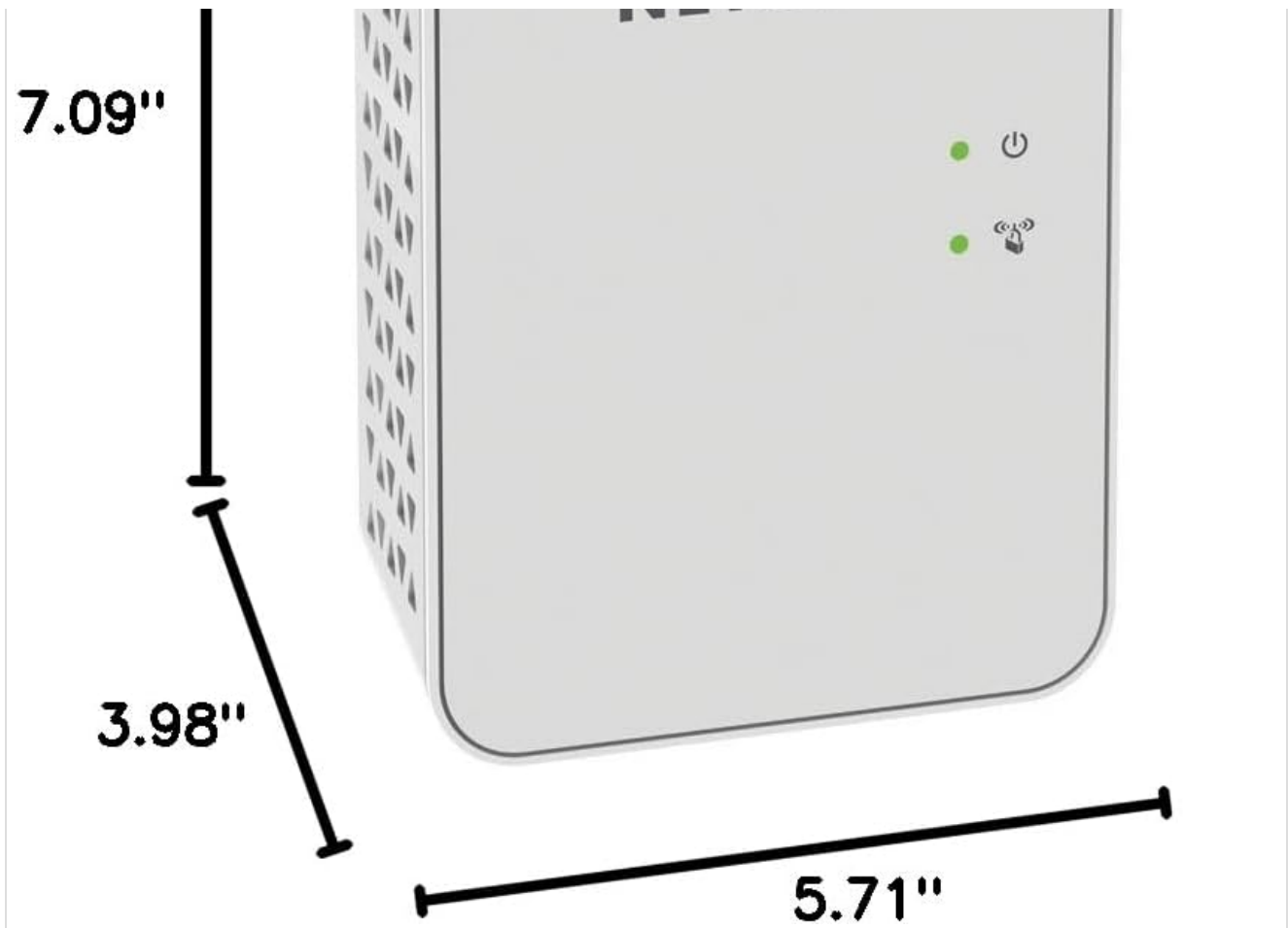


Figure 3: Dimensions of the NETGEAR EX6100 Extender.

9. WARRANTY AND SUPPORT

Legal Disclaimer: This product is brand new and offers excellent signal strength. A 1-year warranty is provided by Netgear. For specific return policies, please refer to your retailer's terms.

For further assistance, technical support, or warranty claims, please visit the official NETGEAR support website or contact their customer service directly. Ensure you have your product model number (EX6100) and serial number available when seeking support.

