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WAVLINK WN536AX6

WAVLINK AX6000 WiFi 6 Router User Manual

Model: WN536AX6

1. Introduction

Thank you for choosing the WAVLINK AX6000 WiFi 6 Router. This high-performance dual-band mesh router, model MIGHTY-LX2, is designed to revolutionize your network with next-generation Wi-Fi 6 technology. It offers exceptional speeds and powerful omnidirectional coverage, making it ideal for demanding users and bandwidth-intensive tasks such as 4K streaming, online gaming, and videoconferencing.

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your router to ensure optimal performance and a seamless network experience.

2. Safety Information

- Use only the power adapter provided with the device.
- Do not expose the device to water, fire, humidity, or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact customer support.
- Place the device in a stable location to prevent it from falling.
- Keep the device away from strong electromagnetic fields.
- Ensure proper ventilation around the device to prevent overheating.

3. Package Contents

Verify that all items are present in your package:

- 1 x WAVLINK AX6000 WiFi 6 Router (Model: WN536AX6)
- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Quick Installation Guide



Image: Contents of the WAVLINK AX6000 Router package, showing the router, power adapter, and Ethernet cable.

4. Product Overview

4.1 Front Panel Indicators

The front panel features LED indicators that provide status information about the router's operation:

- **Power LED:** Indicates power status.
- **Internet LED:** Indicates WAN connection status.
- **2.4G WiFi LED:** Indicates 2.4GHz wireless network activity.
- **5G WiFi LED:** Indicates 5GHz wireless network activity.
- **LAN LEDs:** Indicate status of the LAN ports.



Image: Front view of the WAVLINK AX6000 Router, highlighting the LED indicators.

4.2 Rear Panel Ports and Buttons

The rear panel provides various ports for connectivity and buttons for control:

- **Power Port:** Connects to the power adapter.
- **Power Button:** Turns the router on or off.
- **Reset Button:** Resets the router to factory default settings (press and hold for 10 seconds).
- **USB 3.0 Port:** For connecting external storage devices.
- **2.5G WAN Port:** Connects to your modem for internet access, supporting speeds up to 2500 Mbps.
- **1G LAN Ports (x4):** Connects to wired devices like computers, gaming consoles, or smart TVs.



Image: Rear view of the WAVLINK AX6000 Router, detailing the USB 3.0 port, four 1G LAN ports, and the 2.5G WAN port.

5. Setup

5.1 Hardware Connection

1. **Power Off:** Disconnect power from your modem (if applicable) and the router.
2. **Connect WAN Port:** Connect one end of the provided Ethernet cable to the 2.5G WAN port on your WAVLINK router and the other end to your modem's Ethernet port.
3. **Connect Power:** Connect the power adapter to the router's power port and plug it into a power outlet.
4. **Power On:** Turn on your modem first, wait for it to fully boot up (usually indicated by stable internet LED), then turn on your WAVLINK router.
5. **Connect Devices:** You can connect your computer or other devices to the router via an Ethernet cable to any of the 1G LAN ports, or wirelessly.

5.2 Initial Configuration (Web Interface)

1. **Connect to Router:**
   - **Wired:** Connect your computer to one of the router's LAN ports using an Ethernet cable.
   - **Wireless:** Connect to the default Wi-Fi network name (SSID) printed on the label at the bottom of your router. The default password will also be on this label.
2. **Access Web Interface:** Open a web browser (e.g., Chrome, Firefox) and type**192.168.20.1** into the address bar, then press Enter.
3. **Login:** Enter the default login credentials. These are usually*admin* for both username and password, or as specified on the router's label.
4. **Run Setup Wizard:** Follow the on-screen setup wizard to configure your internet connection type (e.g., DHCP, Static IP, PPPoE) and set up your new Wi-Fi network name (SSID) and password. It is highly recommended to change the default Wi-Fi name and password for security.
5. **Save Settings:** Apply the settings and wait for the router to restart.

For enhanced network control, you can also use the WavRouter App for setup and management.



Image: Simplified setup and management via the WavRouter App or web interface.

6. Operating Instructions

6.1 Wi-Fi Connectivity

The AX6000 router supports dual-band Wi-Fi 6 (802.11ax) with combined speeds up to 5952 Mbit/s (1148 Mbit/s on 2.4 GHz and 4804 Mbit/s on 5 GHz). This allows for seamless surfing, streaming, and gaming.



Image: Wi-Fi 6 speeds for 5GHz and 2.4GHz bands.

6.2 Mesh Functionality

The router supports smart Mesh functionality, allowing you to easily expand your Wi-Fi coverage throughout your home with a single Wi-Fi name and seamless roaming. This eliminates signal dropouts and creates a whole-home Wi-Fi experience.

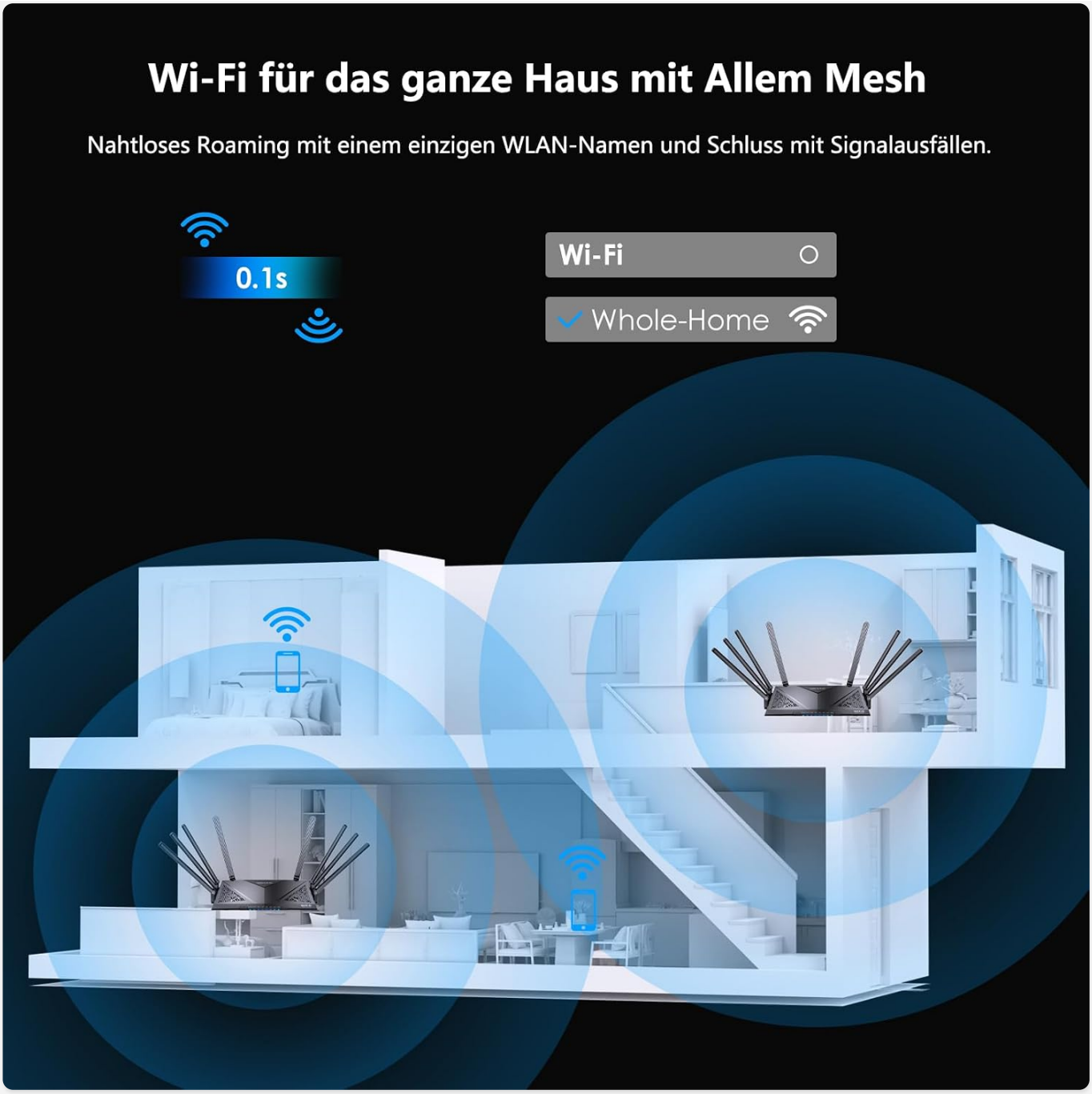

Image: Whole-home Wi-Fi with Mesh technology.

With 8 x 5 dBi high-performance antennas and Beamforming technology, the router provides enhanced coverage up to 2000 square feet, ensuring a strong and stable connection across your entire living space.



Image: Enhanced coverage and connectivity with 8 high-performance antennas.

6.3 Advanced Network Features

- **OFDMA:** Orthogonal Frequency Division Multiple Access frees up channels between devices to increase network capacity.
- **MU-MIMO:** Multi-User Multiple-Input Multiple-Output ensures simultaneous communication across multiple devices.
- **Support for 256+ Devices:** Provides seamless networking for a comprehensive range of devices without sacrificing speed.



Image: OFDMA and MU-MIMO technologies for enhanced device support.

6.4 Network Security and Parental Control

The router ensures secure and versatile connectivity options, supporting advanced encryption protocols like PPTP, L2TP, OpenVPN, and WireGuard. It also includes WPA2/WPA3-PSK Mix and WPA/WPA2-Enterprise for robust wireless security.



Image: Advanced network security features.

The router also offers enhanced parental control features, allowing you to manage internet access for specific devices and set time limits or content filters.

7. Maintenance

- **Regular Firmware Updates:** Check the WAVLINK official website periodically for firmware updates. Updating firmware can improve performance, add new features, and fix security vulnerabilities.
- **Router Placement:** Place the router in a central location, away from obstructions (thick walls, metal objects) and interference sources (microwaves, cordless phones) to maximize Wi-Fi coverage.
- **Cleaning:** Gently clean the router's exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Restart Periodically:** Restarting your router every few weeks can help clear its memory and resolve minor network issues, improving overall performance.

8. Troubleshooting

Problem	Possible Solution
No Internet Access	Check if the WAN LED is lit. Ensure the Ethernet cable from the modem is securely connected to the router's WAN port. Restart your modem and then your router. Verify your internet connection settings in the router's web interface.
Weak Wi-Fi Signal or Dead Zones	Relocate the router to a central, open area. Adjust the router's antennas for optimal signal direction. Consider using the Mesh functionality with another compatible WAVLINK router to extend coverage.
Cannot Access Router Web Interface	Ensure your device is connected to the router (wired or wireless). Verify you are typing the correct IP address:**192.168.20.1**. Try a different web browser. Restart the router.
Forgot Wi-Fi Password or Router Login Password	Perform a factory reset by pressing and holding the Reset button for 10 seconds. Note: This will erase all custom settings. After reset, use the default SSID and password (found on the router's label) to connect and reconfigure.

9. Specifications

Feature	Detail
Brand	WAVLINK
Model Number	WN536AX6
Wireless Standard	802.11ax (Wi-Fi 6)
Data Transfer Rate	Up to 5952 Mbps (4804 Mbps on 5GHz, 1148 Mbps on 2.4GHz)
Frequency	2.4 GHz, 5 GHz (Dual-Band)
Antennas	8 x 5 dBi High-Performance Antennas
Ports	1 x 2.5G WAN, 4 x 1G LAN, 1 x USB 3.0

Feature	Detail
Connectivity Technology	Wi-Fi, Ethernet
Security Protocols	WPA3, OpenVPN, WireGuard, PPTP, L2TP, WPA2/WPA3-PSK Mix, WPA/WPA2-Enterprise
Weight	462 Grams
Origin	China

10. Warranty and Support

WAVLINK products come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official WAVLINK website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or any inquiries regarding your WAVLINK AX6000 router, please contact WAVLINK customer support through their official website or the contact information provided in your product documentation.

Online Resources:

- Official WAVLINK Website: www.wavlink.com
- Product Support Page: (Check official website for specific product support page)

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