WAVLINK AC3000

WAVLINK AC3000 Smart Wi-Fi Router User Manual

Model: AC3000

1. Product Overview

The WAVLINK AC3000 Smart Wi-Fi Router is designed to provide high-speed, reliable internet connectivity for home environments. Featuring Tri-Band Wi-Fi technology, it offers a combined wireless speed of up to 3000Mbps across three distinct bands (2.4GHz and dual 5GHz bands). This router incorporates MU-MIMO technology for efficient data transmission to multiple devices simultaneously and is equipped with eight high-performance omnidirectional antennas to maximize Wi-Fi coverage and signal stability.



Image: Front view of the WAVLINK AC3000 Smart Wi-Fi Router, showcasing its circular design and eight external antennas.

2. Package Contents

Before proceeding with the setup, please ensure all items are present in the package:

- WAVLINK AC3000 Smart Wi-Fi Router
- Power Adapter
- Ethernet Cable
- Quick Start Guide



Image: Contents of the WAVLINK AC3000 router package, including the router, power adapter, Ethernet cables, and quick start guide.

3. Setup Instructions

3.1 Hardware Connection

1. **Positioning the Router:** Place the router in a central location in your home, away from obstructions and devices that may cause interference (e.g., cordless phones, microwave ovens).
2. **Connect the Internet Cable:** Connect one end of the Ethernet cable from your modem's LAN port to the WAN port (usually blue) on the WAVLINK AC3000 router.
3. **Connect Your Devices:** For wired connections, connect your computer or other network devices to any of the LAN ports (yellow) on the router using Ethernet cables.
4. **Power On:** Connect the power adapter to the router's DC 5V port and plug the other end into a power outlet. Press the ON/OFF button if present. Wait for the LED indicators to stabilize, indicating the router is ready.

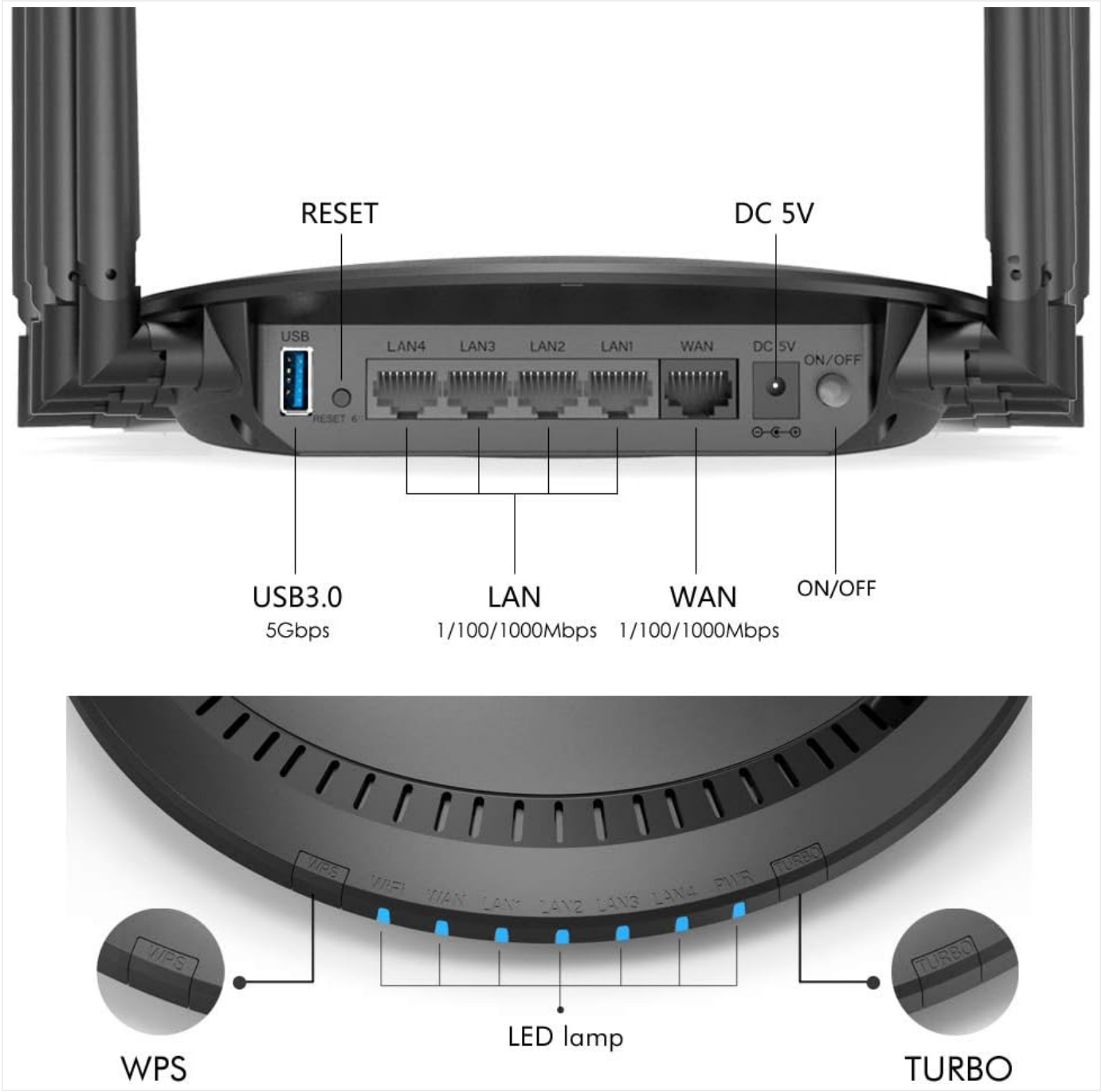

Image: Detailed view of the WAVLINK AC3000 router's rear panel, showing the USB 3.0 port, LAN ports, WAN port, DC 5V power input, and ON/OFF switch.

3.2 Initial Configuration

1. **Connect to Wi-Fi:** On your computer or mobile device, search for the default Wi-Fi network name (SSID) printed on the label at the bottom of the router. Connect to this network using the default password (if any).
2. **Access Web Interface:** Open a web browser and enter the default IP address (e.g., 192.168.10.1 or 192.168.0.1) or domain name (e.g., wavlink.com) provided in the Quick Start Guide.
3. **Login:** Enter the default username and password (usually 'admin' for both) when prompted.
4. **Follow Setup Wizard:** The router's web interface will guide you through the initial setup, including setting up your internet connection type, changing Wi-Fi network names (SSIDs) and passwords, and setting an administrator password. It is highly recommended to change the default administrator password for security.

4. Operating the Router

4.1 Tri-Band Wi-Fi Operation

The AC3000 router operates on three distinct Wi-Fi bands: one 2.4GHz band and two 5GHz bands. This allows for greater network capacity and reduced interference. Devices can be assigned to the most suitable band for optimal performance. For example, older devices or those requiring wider coverage may use 2.4GHz, while newer devices and high-bandwidth applications (like 4K streaming or gaming) can utilize the faster 5GHz bands.



Image: Illustration demonstrating the extensive Wi-Fi coverage provided by the WAVLINK AC3000 router within a home environment, highlighting its eight high-performance antennas.

4.2 MU-MIMO Technology

Multi-User, Multiple-Input, Multiple-Output (MU-MIMO) technology allows the router to communicate with multiple devices simultaneously, rather than sequentially. This significantly improves network efficiency and throughput, especially in environments with many connected devices, ensuring each device receives its data without waiting.

4.3 Touchlink Feature

The Touchlink feature provides a convenient way for guests to connect to your Wi-Fi network. By simply touching the "WAVLINK" logo on the router, users can connect to the guest Wi-Fi network without needing to enter a password for a limited time (typically two minutes). This simplifies guest access while maintaining security for your main network.



Image: Close-up of the WAVLINK AC3000 router's WPS button, indicating its function for easy device connection.

4.4 Quality of Service (QoS)

The QoS feature allows you to prioritize network traffic for specific applications or devices. This ensures that critical activities, such as online gaming or video conferencing, receive sufficient bandwidth even when other devices are consuming network resources.

5. Maintenance

- **Firmware Updates:** Regularly check the WAVLINK official website for the latest firmware updates. Updating firmware can improve performance, add new features, and enhance security. Follow the instructions provided with the firmware update carefully.
- **Regular Reboot:** Periodically rebooting your router (e.g., once a month) can help clear its memory and resolve minor performance issues. Simply unplug the power adapter for 10-15 seconds and then plug it back in.
- **Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation

openings are not blocked to prevent overheating.

6. Troubleshooting

This section addresses common issues you might encounter with your WAVLINK AC3000 router.

- **No Internet Connection:**
  - Verify that your modem is working correctly and has an active internet connection.
  - Check all Ethernet cable connections between the modem and the router, and between the router and your devices.
  - Reboot both your modem and the router.
  - Ensure your router's WAN settings are correctly configured according to your Internet Service Provider (ISP).
- **Slow Wi-Fi Speed or Frequent Disconnections:**
  - Ensure the router is placed in a central location, away from interference sources.
  - Check for firmware updates.
  - Adjust Wi-Fi channels in the router's settings to avoid interference from neighboring networks.
  - Utilize the 5GHz bands for high-bandwidth activities if your devices support them.
  - Consider enabling QoS for critical applications.
- **Devices Not Connecting to Wi-Fi Automatically:**
  - Ensure the Wi-Fi password entered on the device is correct.
  - Check if the device's Wi-Fi adapter is enabled and functioning.
  - For Smart TVs or similar devices, check their network settings for any power-saving features that might disable Wi-Fi upon standby.
  - Try forgetting the network on the device and reconnecting.
- **Router Malfunctions After Power Outage:**
  - Perform a full power cycle: unplug the router from power, wait for 15-30 seconds, then plug it back in. Allow it to fully boot up before checking connectivity.
- **Cannot Access Router's Web Interface:**
  - Ensure your device is connected to the router's network (either wired or Wi-Fi).
  - Verify you are using the correct IP address or domain name for the router.
  - Clear your browser's cache or try a different browser.
  - Temporarily disable any firewall or antivirus software on your computer.

7. Specifications

Feature	Detail
Model Name	AC3000
Wireless Standard	IEEE 802.11ac/a/n/g/b
Frequency Band Class	Tri-Band (2.4GHz, 5GHz, 5GHz)
Combined Wireless Speed	Up to 3000Mbps (400Mbps 2.4GHz + 867Mbps 5GHz + 1733Mbps 5GHz)

Feature	Detail
Antennas	Eight high-performance omnidirectional antennas
Ethernet Ports	1x WAN (Gigabit), 4x LAN (Gigabit)
USB Port	USB 3.0
Special Features	MU-MIMO, Touchlink, QoS, WPS
Product Dimensions	11.81 x 11.26 x 4.45 inches
Item Weight	3.69 pounds

8. Warranty and Support

The WAVLINK AC3000 Wireless Wi-Fi Router comes with a**1-year warranty** from the date of purchase. Additionally, a **30-day money-back guarantee** is offered. This warranty covers manufacturing defects and ensures the product's design and durability.

For technical assistance, troubleshooting, or any product-related inquiries, please contact WAVLINK customer support. Refer to the Quick Start Guide or the official WAVLINK website for the most current contact information. The manufacturer is committed to resolving any issues you may encounter.

© 2024 WAVLINK. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

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