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WAVLINK RCAMUS-WN531AX2

WAVLINK AX1800 WiFi 6 Router Instruction Manual

Model: RCAMUS-WN531AX2

1. Introduction

This manual provides detailed instructions for setting up, operating, and troubleshooting your WAVLINK AX1800 WiFi 6 Router. Designed for enhanced wireless performance, this dual-band Gigabit router supports WiFi 6 (802.11ax) technology, offering faster speeds, wider coverage, and improved efficiency for multiple devices.

2. Product Overview

2.1 Key Features

- **WiFi 6 (802.11ax) Technology:** Experience next-generation speeds and efficiency.
- **AX1800 Dual Band:** Simultaneous 2.4GHz and 5GHz connections for optimal performance.
- **Gigabit Ethernet Ports:** High-speed wired connections for devices.
- **MU-MIMO & OFDMA:** Efficiently handles multiple devices simultaneously, reducing latency.
- **Target Wake Time (TWT):** Reduces power consumption for connected devices.
- **TouchLink Technology:** Simplifies guest Wi-Fi access with a single touch.
- **Parental Control & QoS:** Manage network access and prioritize traffic.
- **Wide Coverage:** Designed for up to 1500 sq. ft. and 64+ devices.

2.2 Package Contents



Image: WAVLINK AX1800 WiFi 6 Router, power adapter, Ethernet cable, and quick start guide.

The package should contain the following items:

- WAVLINK AX1800 WiFi 6 Router
- Power Adapter
- Ethernet Cable
- Quick Start Guide

2.3 Hardware Interface

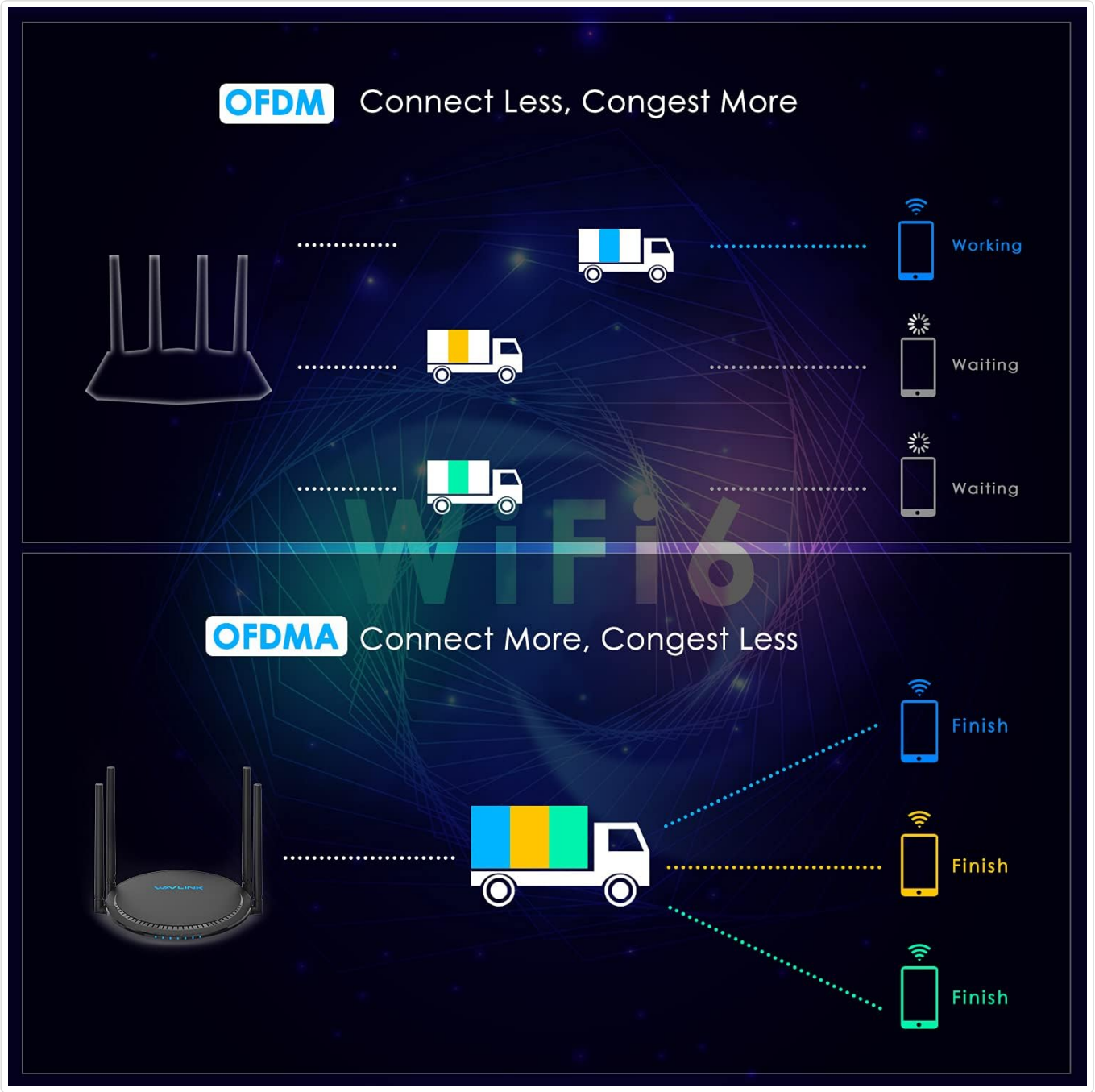


Image: Rear view of the WAVLINK AX1800 WiFi 6 Router, highlighting the USB 3.0 port, LAN ports, WAN port, DC 12V power input, ON/OFF switch, and RESET button. The bottom view shows the PAIR, WiFi, WAN, LAN1-4, and TURBO status LEDs.

Familiarize yourself with the ports and indicators on your router:

- **USB 3.0 Port:** For connecting external storage devices.
- **LAN Ports (10/100/1000Mbps):** Connect wired devices like PCs, game consoles, or smart TVs.
- **WAN Port (10/100/1000Mbps):** Connects to your modem for internet access.
- **DC 12V:** Power input.
- **ON/OFF Switch:** Power control for the router.
- **RESET Button:** Press and hold for 6 seconds to restore factory settings.
- **Status LEDs:** Indicators for PAIR, WiFi, WAN, LAN1-4, and TURBO functions.

3. Setup Guide

3.1 Initial Connection

1. Connect your modem's Ethernet cable to the **WAN port** on your WAVLINK router.
2. Connect your computer to one of the **LAN ports** on the router using an Ethernet cable, or connect wirelessly to the router's default Wi-Fi network (SSID and password usually found on a label on the router).
3. Plug in the power adapter to the **DC 12V port** and turn on the router using the **ON/OFF switch**.

3.2 Web Interface Access

To configure your router, access its web management page:

1. Open a web browser (e.g., Chrome, Firefox).
2. In the address bar, type http://wifi.wavlink.com and press Enter.
3. Log in using the router's management password. The initial password is typically "admin" (not your Wi-Fi password).

3.3 Setting a Static IP Address for Devices

This video demonstrates how to reserve a static IP address for a device connected to your router. This is useful for devices like servers or network printers that require a consistent IP address.

▶ **Watch video online**
Setting AX1800 Router

Video: Guide on setting a static IP address for devices connected to the WAVLINK AX1800 Router. This process ensures a device always receives the same IP address from the router.

Steps to Set a Static IP Address:

1. **Check Original IP Address:**
    - Connect your PC to the router's Wi-Fi.
    - Click the Network connection icon in your system tray.
    - Go to "Properties" for your Wi-Fi connection.
    - Scroll down to "Properties" and note the "IPv4 address" (e.g., 192.168.10.113). This step can be omitted if not needed.
2. **Set up Static IP Address via Router's Web Interface:**
    - Open your browser and log into http://wifi.wavlink.com.
    - Go to "Setup" then "Client List".
    - Copy the MAC Address of the device you want to assign a static IP to.
    - Click on the "Static IP" tab.
    - Enter a "Device Name" (e.g., "Host computer").
    - Enter the desired static IP address (e.g., 192.168.10.150). Ensure it's within the DHCP address range 100-250.
    - Paste the copied MAC Address into the "MAC Address" field.
    - Click the "+" icon to add the entry.
    - Wait for the buffering to complete.
3. **Check Static IP Address after Setting:**
    - Disconnect and reconnect your Wi-Fi connection.
    - Go to "Properties" for your Wi-Fi connection again.
    - Verify that the "IPv4 address" now matches the static IP you assigned.

4. Operating Instructions

4.1 Quality of Service (QoS) Settings

QoS allows you to prioritize network traffic for specific applications or devices, ensuring smoother performance for critical tasks like gaming or video streaming. This video also covers parental control settings.

▶ **Watch video online**
Parental Control .

Video: Guide on setting up Parental Control and QoS settings on the WAVLINK AX1800 Router.

Steps to Configure QoS:

1. Connect to your WAVLINK router via Wi-Fi or Ethernet cable.
2. Open a browser and log into the web management page (http://wifi.wavlink.com). Use "admin" as the initial password if not changed.
3. Go to "Setup" then "QoS Settings".
4. Enable QoS by pushing the toggle button.
5. You can create one or more speed limit groups according to your needs. For each group, set a "Group Name", "Priority" (e.g., Middle, High, Low), "Download (KB/s)" and "Upload (KB/s)" limits.
6. Check "enabled" for the desired group.
7. Click "Save".

4.2 Parental Control

Parental Control allows you to restrict internet access for specific devices or block certain websites during defined time periods.

Steps to Configure Parental Control:

1. Connect to your WAVLINK router and log into the web management page (http://wifi.wavlink.com).
2. Go to "Setup" then "Client List".
3. Select the connected device for which you want to set parental controls.
4. In the "QoS Settings" option, select the speed limit option that has been set (e.g., "Limit2").
5. In the "Internet Block" setting option, select "Custom".
6. Enter the website URL you want to block access to in the "URL Filter" field (e.g.,www.amazon.com).
7. In the "Block Time" option, check the internet time. You can set specific hours for each day of the week. If you plan to set a limit time from one day to the next, divide it into two periods (e.g., Monday 22:00-23:59 and Tuesday 00:00-06:00).
8. Click "Save".

5. Troubleshooting

5.1 No Internet Access

If you are unable to access the internet after setting up your router, follow these steps to diagnose and resolve the issue. This guide is particularly helpful if you are connecting to a DSL modem.

▶ **Watch video online**
What to do if there is no network connected to the DSL model

Video: Troubleshooting steps for when there is no network connected to the DSL modem with a WAVLINK router.

Steps to Troubleshoot No Internet Connection:

1. **Check Physical Connection:**
    - Ensure your modem is connected to the WAN port of the router.
    - Ensure your PC is connected to the router's LAN port (if using a wired connection).
2. **Restart the Modem:**
    - Unplug the network cable and power cord connected to the modem.
    - Wait for one minute, then re-plug them to restart the modem.
    - Check if you can access the Internet. If not, proceed to the next step.
3. **Test for Internet Connection Type on your PC:**
    - Directly connect your PC to the modem (bypassing the router).
    - Press Windows + R key, type ncpa.cpl, and click OK to open Network Connections.
    - Right-click on "Ethernet" and select "Properties".
    - Select "Internet Protocol Version 4 (TCP/IPv4)" and click "Properties".
    - Ensure "Obtain an IP address automatically" is selected.
    - Click "Details" to view your PC's internet status, including "IPv4 Address" and "IPv4 DNS Servers". Note this information.
    - If your PC can access the internet, you are using a Dynamic IP connection. If not, proceed to check for a PPPoE connection.
    - For PPPoE: In Network and Sharing Center, select "Set up a new connection or network", then "Connect to the Internet", and finally "Broadband (PPPoE)". Enter your ISP-provided username and password. If your PC can access the internet, you are using a PPPoE connection.
4. **Log into the Router's Web Management Page and Set up Internet Connection Type:**
    - Reconnect your router to the modem and PC separately.
    - Log into the router's web management page (http://wifi.wavlink.com).
    - Go to "Setup" then "Internet Settings".
    - **For Dynamic IP Connection:** Choose "DHCP" as your WAN Type and click "Apply". Wait for the progress bar to reach 100%, then refresh and check internet access.
    - **For PPPoE Connection:** Choose "PPPoE" as your WAN Type, enter your account and password (provided by your ISP), and click "Apply". Wait for the progress bar to reach 100%, then refresh and check internet access.
5. **Set up the DNS Server (If still no internet):**
    - Log into the router's web management page.
    - Go to "Setup" then "Internet Settings".
    - Select "Use the following DNS".
    - Enter 8.8.8.8 as the DNS 1 and 8.8.4.4 as the DNS 2.
    - Click "Apply". Wait for the progress bar to reach 100%, then refresh and check internet access.

If you've tried all the above steps and still cannot access the internet, please contact WAVLINK technical support for further assistance.

6. Specifications

Feature	Detail
Product Dimensions	11.02 x 9.72 x 3.27 inches
Item Weight	1.96 pounds
ASIN	B09B25G2SG
Item Model Number	RCAMUS-WN531AX2
Date First Available	April 14, 2023
Manufacturer	WAVLINK
Brand	WAVLINK
Model Name	RCAMUS-WN531AX2
Special Feature	QoS, WPS
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Compatible Devices	Personal Computer
Recommended Uses	Home
Connectivity Technology	Wi-Fi
Operating System	ZyNOS
Security Protocol	WPS

7. Support

For technical assistance or further inquiries, please contact WAVLINK support:

- **Phone:** +1 8889730883 (UTC-5) Mon - Fri 9AM - 6PM
- **Email:** Contact@wavlink.com

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