

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [NETGEAR](#) /

› [NETGEAR Nighthawk WiFi 6 Router \(RAX120\) Instruction Manual](#)

NETGEAR RAX120

NETGEAR Nighthawk WiFi 6 Router (RAX120) Instruction Manual

Model: RAX120 | Brand: NETGEAR

INTRODUCTION

The NETGEAR Nighthawk AX6000 12-stream Wi-Fi router is designed to handle demanding home network environments. It supports the latest Wi-Fi 6 (802.11ax) standard, offering increased data capacity and combined Wi-Fi speeds up to 6 Gbps. This router is optimized for smart home applications, 4K UHD streaming, and online gaming, providing enhanced performance and coverage for up to 3,500 sq. ft. and 30 devices.



The NETGEAR Nighthawk RAX120 WiFi 6 Router, designed for high-performance networking.

WHAT'S IN THE BOX

Ensure all items are present before proceeding with setup:

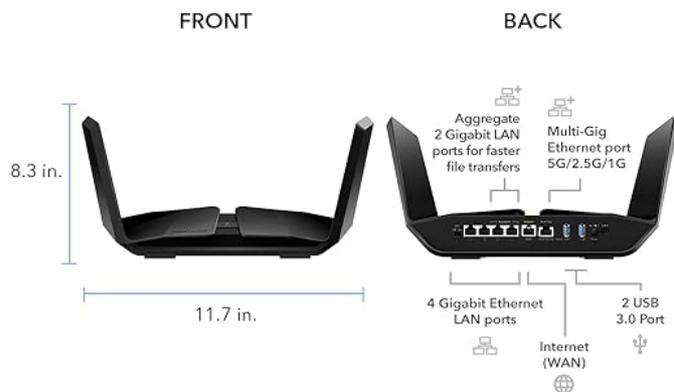
- Nighthawk AX12/12-stream AX6000 WiFi Router (RAX120)
- Ethernet cable
- Quick start guide
- Power adapter

SETUP INSTRUCTIONS

Follow these steps for initial setup of your NETGEAR Nighthawk RAX120 router:

1. **Unpack the Router:** Carefully remove the router and its components from the packaging. Lift the two wings of the router and gently press them into their upright and locked position.

Technical Specs



WIFI SPEED

6.0Gbps, AX6000 WiFi 6

WIFI COVERAGE

Up to 3,500 sq. ft., 30 devices

INTERNET PLANS

Supports any internet service up to 5Gbps

WIFI CONNECTIVITY

WiFi 6, 802.11 ax, backwards compatible with 802.11a/b/g/n/ac

WIRED CONNECTIVITY

4 Gigabit Ethernet LAN ports (supports port aggregation), 1/2.5/5 Gigabit Ethernet LAN port, 2 USB 3.0 ports

PROCESSOR

Quad-core 2.2Ghz processor

NETWORK SECURITY

NETGEAR Armor all-in-one internet security

The Nighthawk RAX120 router ready for setup in a home environment.

- 2. Connect to your Modem:** Plug one end of the included Ethernet cable into the yellow 'Internet (WAN)' port on the back of the RAX120 router. Plug the other end into an available LAN port on your existing cable modem or Internet Service Provider (ISP) device.

Supports Internet plans up to 2Gbps and up to 5 gigabit wired connections

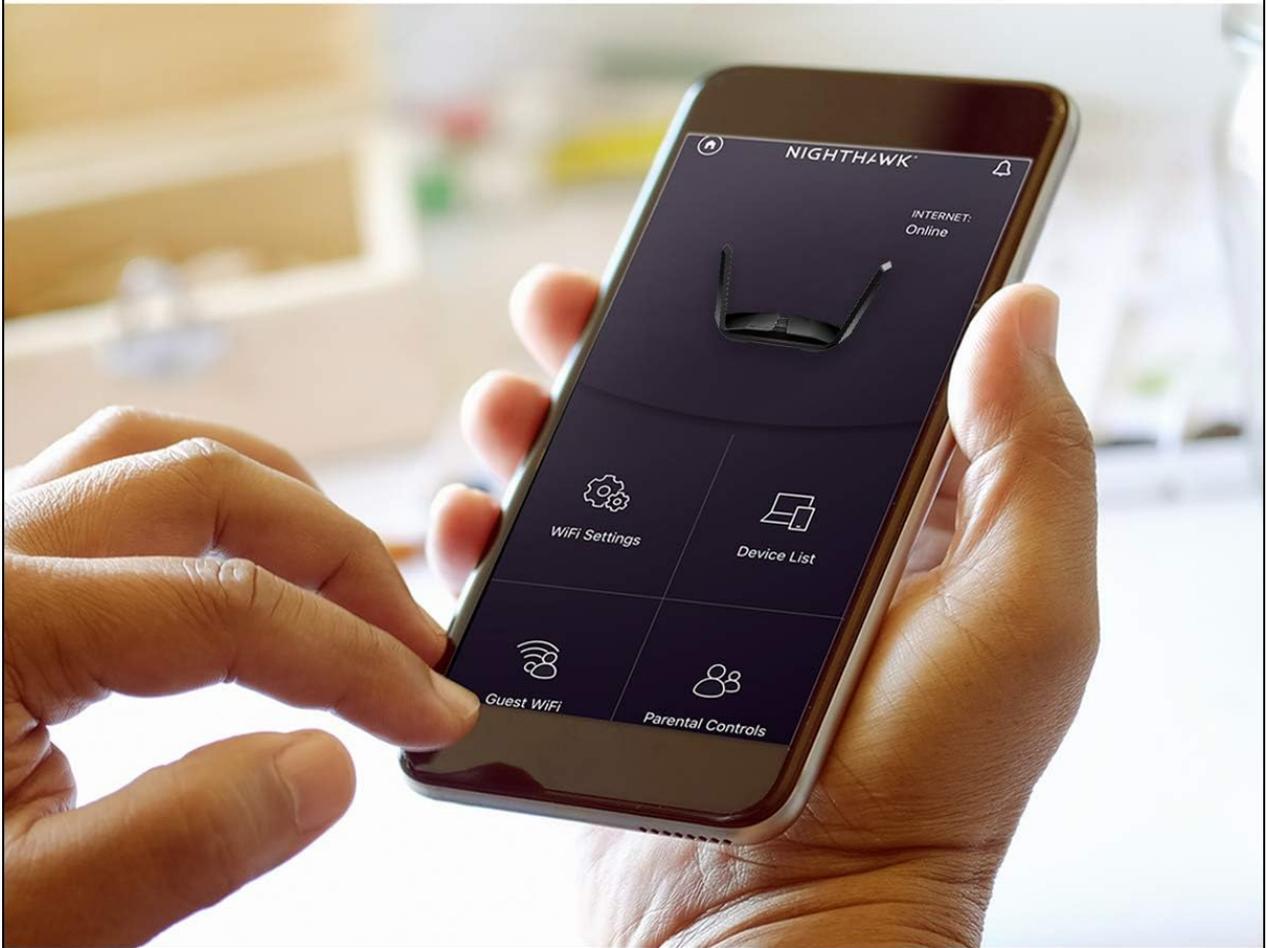


WiFi 6

Back panel of the RAX120, highlighting the Internet (WAN) port and other connections.

- 3. Power On:** Connect the power adapter to the router's power port and then plug the adapter into a wall outlet. The router's LED lights will illuminate as it powers on.
- 4. Download the Nighthawk App:** For easy setup and management, download the NETGEAR Nighthawk app on your mobile device. The quick start guide provides instructions and QR codes for downloading the app.

Easy setup and management with the Nighthawk app



The Nighthawk app simplifies router setup and management.

5. **Complete Setup via App:** Follow the step-by-step instructions within the Nighthawk app to configure your Wi-Fi network name (SSID), password, and other settings.

Setup Video Guide

Your browser does not support the video tag.

Official video demonstrating the unboxing and initial setup of the NETGEAR Nighthawk AX12 router.

OPERATING INSTRUCTIONS

The Nighthawk RAX120 is designed for optimal performance and ease of use:

- **High-Speed Wi-Fi 6:** Enjoy simultaneous streaming of movies, games, video calls, and file transfers at up to 6 Gbps Wi-Fi speed. The router's 12-stream design and AX6000 capabilities ensure efficient data handling for multiple devices.

8 antennas deliver longer
WiFi range, up to 3,500 sq. ft.

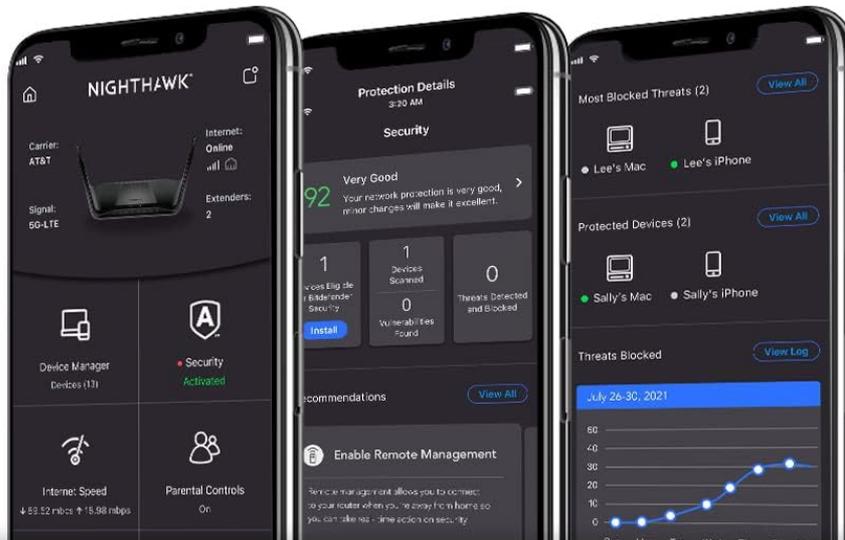


WiFi 6

Internal diagram illustrating the 8 high-performance antennas for broad coverage.

- **Wired Connectivity:** Utilize the 4 x 1G Ethernet ports and 1 x 1/2.5/5G Multi-Gig Ethernet port for high-speed wired connections to computers, game consoles, and streaming devices.
- **USB Connections:** Two USB 3.0 ports allow you to share a storage drive with connected devices or create a personal cloud storage for remote access.
- **Nighthawk App Management:** Use the Nighthawk app to easily manage Wi-Fi settings, test Internet speed, view speed history, and monitor data usage.

The Nighthawk App Makes it Easy to Setup, Monitor, and Protect Your Household



Simple setup
and monitoring



NETGEAR Armor™
all-in-one internet security*

*requires subscription after 30-day free trial

The Nighthawk App provides comprehensive control over your router and network.

- **NETGEAR Armor Security:** Protect your family's Wi-Fi with an automatic shield of security across all connected devices. NETGEAR Armor helps block viruses, malware, and phishing attempts.

NETGEAR Armor Video Guide

Your browser does not support the video tag.

Official video explaining NETGEAR Armor Cybersecurity features.

Your browser does not support the video tag.

Official video detailing how NETGEAR Armor protects against cyberthreats.

MAINTENANCE

To ensure optimal performance and longevity of your RAX120 router:

- **Firmware Updates:** Regularly check for and install firmware updates via the Nighthawk app. Updates often include performance improvements and security patches.
- **Placement:** Place the router in a central location, away from obstructions and heat sources, to maximize Wi-Fi

coverage and prevent overheating. Ensure adequate airflow around the device.

- **Cleaning:** Periodically clean the router's exterior with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.
- **Restart:** If you experience persistent performance issues, try restarting the router by unplugging it from the power outlet for 10 seconds and then plugging it back in.

TROUBLESHOOTING

If you encounter issues with your Nighthawk RAX120 router, consider the following:

- **Frequent Reboots or Signal Drops:**
 - Ensure the router is placed in a well-ventilated area to prevent overheating.
 - Check all cable connections (Ethernet, power) to ensure they are secure.
 - Update the router's firmware to the latest version via the Nighthawk app.
 - If using a separate modem, ensure the modem is also functioning correctly and not causing interruptions.
- **Slow Internet Speeds:**
 - Verify your Internet Service Provider (ISP) speed by connecting a device directly to your modem (bypassing the router).
 - Use the Nighthawk app to run Internet speed tests and monitor network activity.
 - Ensure your devices are connected to the appropriate Wi-Fi band (5GHz for faster speeds, 2.4GHz for longer range).
 - Minimize interference by placing the router away from other electronic devices.
- **Difficulty with Setup:**
 - Ensure your modem is powered on and connected to the Internet before setting up the router.
 - Use the Nighthawk app for guided setup. If the app fails, try a wired setup using a computer and accessing the router's web interface (usually routerlogin.net).
 - Perform a factory reset on the router if initial setup attempts are unsuccessful.

SPECIFICATIONS

Feature	Detail
Wireless Type	802.11ax (WiFi 6)
Brand	NETGEAR
Series	RAX120-100NAS
Item Model Number	RAX120
Operating System Compatibility	Microsoft Windows 7, 8, 10, Vista, XP, 2000, Mac OS, UNIX or Linux
Item Weight	4.62 pounds
Product Dimensions	12.2 x 7.48 x 1.77 inches
Color	Black

Voltage	110 Volts
Model Name	RAX120-100NAS
Special Features	MU-MIMO, Alexa Compatible, Guest Mode, Internet Security, LED Indicator, Remote Access, Beamforming, QoS
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11ax
Compatible Devices	Playstation 5, iPhone 11, 12, MacBook Air, Pro 13, Mac Mini, Ultra Notebooks, Samsung S10, S20
Recommended Uses	Gaming, Home
Included Components	Nighthawk AX12/12-stream AX6000 WiFi Router (RAX120); Ethernet cable; Quick start guide; Power adapter
Connectivity Technology	Ethernet, USB, WiFi, Optical Fiber

WARRANTY INFORMATION

Specific warranty details for the NETGEAR Nighthawk RAX120 router are typically provided with the product documentation. For extended coverage, protection plans are available for purchase, including 3-Year and 4-Year options. Please refer to your product's packaging or the official NETGEAR website for the most current warranty terms and conditions.

SUPPORT

For further assistance, technical support, or to access additional resources for your NETGEAR Nighthawk RAX120 router, please visit the official NETGEAR support website or utilize the NETGEAR Nighthawk app. The app provides direct access to support features, FAQs, and community forums.

Official NETGEAR Support: www.netgear.com/support