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› NETGEAR Nighthawk R6700 AC1750 Smart Wi-Fi Router User Manual

NETGEAR R6700

NETGEAR Nighthawk R6700 AC1750 Smart Wi-Fi Router User Manual

Model: R6700

1. INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, and maintaining your NETGEAR Nighthawk R6700 AC1750 Smart Wi-Fi Router. The R6700 is designed to deliver high-speed wireless connectivity, extensive coverage, and advanced features for your home network.

Key features include AC1750 wireless speed, coverage up to 1500 sq ft, support for up to 25 devices, four Gigabit Ethernet ports, one USB 3.0 port for storage and printer sharing, and integrated security features like NETGEAR Armor and Smart Parental Controls.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Nighthawk AC1750 Smart WiFi Router (R6700)
- Three (3) detachable antennas
- Ethernet cable
- Quick install guide
- Power adapter

3. PHYSICAL OVERVIEW

Familiarize yourself with the router's components and indicators.



Figure 3.1: Front view of the NETGEAR Nighthawk R6700 router, showing LED indicators and the USB 3.0 port.

Front Panel LEDs

- **Power LED:** Indicates router power status.
- **Internet LED:** Indicates internet connection status.
- **Wi-Fi LEDs (2.4 GHz and 5 GHz):** Indicate wireless network activity.
- **Ethernet Port LEDs:** Indicate activity on the wired LAN ports.
- **USB LED:** Indicates activity on the USB port.



4 High-Speed Ethernet Ports
Up to 1Gbps

3.0 USB Port
Easily share storage or printer
on connected devices

Guest WiFi Access
Separate & secure network
for your guests

Secure Remote Access
Access your home network
from anywhere on any device

Smart Parental Controls
Set online time and
content limits

R6700 Additional Features

NIGHTHAWK

NETGEAR

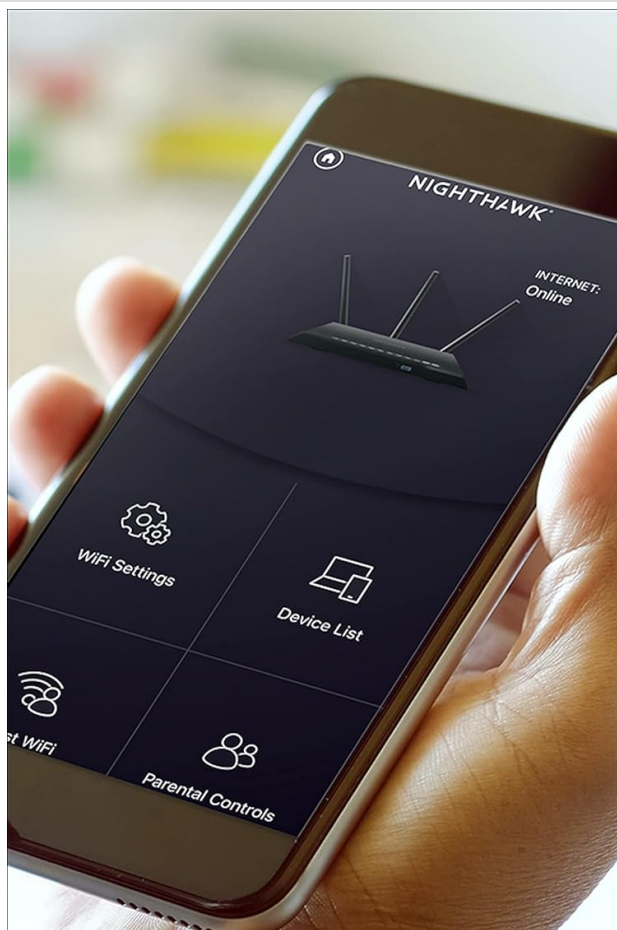
Figure 3.2: Rear view of the NETGEAR Nighthawk R6700 router, displaying the Ethernet ports, Internet port, and power connector.

Rear Panel Ports and Buttons

- **Antenna Connectors:** Three connectors for attaching the external antennas.
- **Ethernet Ports (1-4):** Four Gigabit Ethernet ports for wired devices.
- **Internet Port:** Connects to your modem.
- **USB 3.0 Port:** For connecting USB storage devices or printers.
- **Power On/Off Button:** Controls the router's power.
- **Power Connector:** Connects to the power adapter.
- **WPS Button:** For easy Wi-Fi Protected Setup connections.
- **Reset Button:** Recessed button to restore factory default settings.

4. SETUP INSTRUCTIONS

Follow these steps for initial router setup. For optimal performance, place the router in a central location, away from obstructions and electronic devices that may cause interference.



3 Simple Steps

- 1 Plug internet Ethernet cable into router
- 2 App walks you through steps
- 3 Connect devices to network

Easy 5-minute setup

NIGHTHAWK

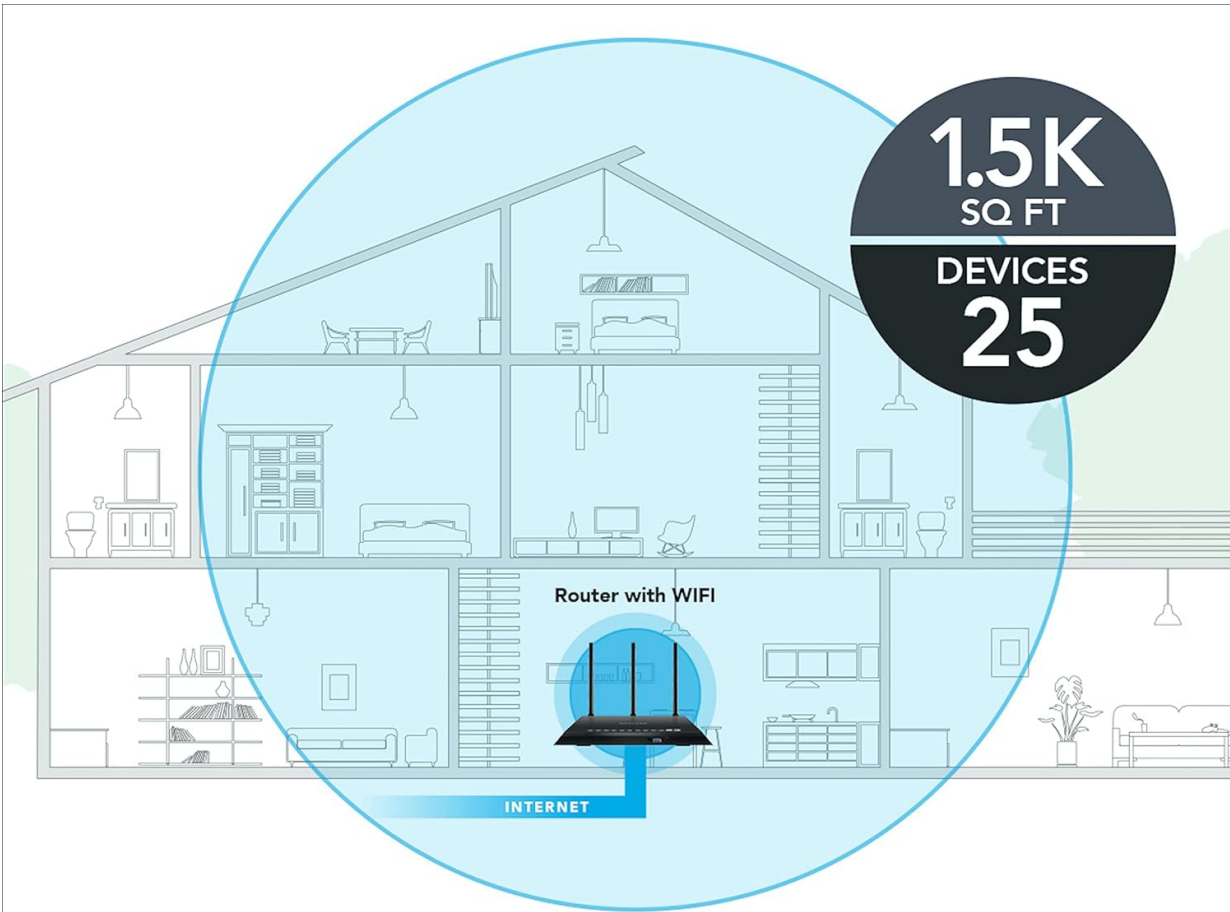
NETGEAR

Figure 4.1: Visual guide for the three simple setup steps of the NETGEAR Nighthawk R6700 router.

1. **Connect Antennas:** Screw the three detachable antennas onto the connectors on the rear panel of the router. Adjust them vertically for best signal coverage.
2. **Connect to Modem:** Power off your modem. Connect one end of the provided Ethernet cable to the Internet port (yellow) on your R6700 router and the other end to your modem's Ethernet port. Power on your modem, then wait for it to fully boot up.
3. **Power On Router:** Connect the power adapter to the router's power connector and plug it into a power outlet. Press the Power On/Off button. Wait for the Power LED on the front of the router to turn solid white.
4. **Connect Your Device:**
 - **Wired Connection:** Connect an Ethernet cable from your computer to one of the Gigabit Ethernet ports (1-4) on the router.
 - **Wireless Connection:** On your computer or mobile device, locate and connect to the Wi-Fi network name (SSID) printed on the router's label. Enter the default Wi-Fi password (Network Key) when prompted.
5. **Access Router Settings:**
 - **Using the Nighthawk App:** Download the NETGEAR Nighthawk app from your mobile device's

app store. Follow the on-screen instructions to complete the setup.

- **Using a Web Browser:** Open a web browser and navigate to www.routerlogin.net or www.routerlogin.com. Follow the setup wizard to configure your internet connection and Wi-Fi settings.



The diagram illustrates a cross-section of a house with a central router labeled "Router with WIFI" connected to an "INTERNET" line. A large blue circle highlights the router's coverage area, which includes the living room, dining area, kitchen, and bedrooms. A circular callout in the upper right corner of the house contains the text "1.5K SQ FT" and "DEVICES 25".

**WiFi coverage up to 1500 sq. ft.
and 25 devices**

NIGHTHAWK® **NETGEAR®**

Figure 4.2: The NETGEAR Nighthawk app interface, demonstrating its use for easy setup, monitoring, and protection of your home network.

5. OPERATING YOUR ROUTER

5.1 Wi-Fi Network Configuration

The R6700 operates on dual bands (2.4 GHz and 5 GHz) to provide flexible connectivity. You can manage your Wi-Fi settings through the Nighthawk app or the web interface.

- **SSID (Network Name):** Customize your Wi-Fi network names for both 2.4 GHz and 5 GHz bands.
- **Password (Network Key):** Change the default Wi-Fi password to a strong, unique password for security.
- **Smart Connect:** Enable Smart Connect to allow the router to automatically select the best Wi-Fi band (2.4 GHz or 5 GHz) for your devices.

5.2 Guest Wi-Fi Access

Create a separate and secure Wi-Fi network for guests. This allows guests to access the internet without gaining access to your main network resources or connected devices.

- Access the router settings via the Nighthawk app or web interface.
- Navigate to the Guest Network section.
- Enable the guest network and set a unique SSID and password.

5.3 USB Storage and Printer Sharing

The USB 3.0 port on the router allows you to connect a USB storage device or a printer, making it accessible to all devices on your network.

- **ReadySHARE USB Access:** Connect a USB storage drive to the USB port to share files across your network or create a personal cloud storage for remote access.
- **ReadySHARE Printer:** Connect a USB printer to the USB port to allow multiple computers on your network to print to it.

5.4 Parental Controls

Utilize NETGEAR Smart Parental Controls to manage internet access for devices connected to your network. This feature helps promote healthy internet habits and allows you to set content filters and time limits.

- Access Parental Controls through the Nighthawk app.
- Configure profiles for family members and assign devices.
- Set schedules for internet access and block inappropriate content.

5.5 Security Features

The R6700 router includes several security protocols and features to protect your network.

- **WPA2 Wireless Security:** Supports WPA2-PSK (AES) for secure wireless connections.
- **Firewall:** Built-in firewall protection against unauthorized access.
- **Denial-of-Service (DoS) Protection:** Helps protect against DoS attacks.
- **VPN Support:** Supports VPN for secure remote access to your home network.
- **NETGEAR Armor:** Provides an automatic shield of security across all your connected devices, protecting against online threats. A 30-day free trial is typically included.

6. MAINTENANCE

6.1 Firmware Updates

Regularly updating your router's firmware is crucial for security, performance, and access to new features. NETGEAR typically provides firmware updates through the Nighthawk app or the router's web interface.

- Check for updates periodically via the Nighthawk app or by logging into www.routerlogin.net.
- Follow the on-screen instructions to download and install any available updates. Do not power off the router during a firmware update.

6.2 Factory Reset

A factory reset restores the router to its original default settings. This can be useful for troubleshooting persistent issues or when preparing to sell or dispose of the router.

- With the router powered on, use a paperclip or similar pointed object to press and hold the recessed Reset button on the rear panel for about 7-10 seconds.
- Release the button when the Power LED starts blinking. The router will restart with factory default settings.
- After a factory reset, you will need to reconfigure your internet and Wi-Fi settings.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your R6700 router.

7.1 No Internet Connection

- Ensure your modem is powered on and has an active internet connection (check modem's indicator lights).
- Verify the Ethernet cable between the modem and the router's Internet port is securely connected.
- Restart both your modem and router by unplugging them from power for 30 seconds, then plugging them back in (modem first, then router).
- Check the Internet LED on the router. If it's not solid white, there might be an issue with your ISP connection or router configuration.

7.2 Slow Wi-Fi Speed or Frequent Disconnections

- **Router Placement:** Ensure the router is centrally located, away from large metal objects, concrete walls, and other electronic devices that can cause interference.
- **Interference:** Other Wi-Fi networks, cordless phones, and microwaves can interfere. Try changing your Wi-Fi channel in the router settings.
- **Band Selection:** For devices that support it, connect to the 5 GHz Wi-Fi band for faster speeds and less interference, especially for streaming and gaming.
- **Firmware:** Ensure your router's firmware is up to date.
- **Device Limit:** While the router supports up to 25 devices, excessive simultaneous high-bandwidth usage can impact performance.

7.3 Cannot Access Router Settings

- Ensure your device is connected to the router's network (either wired or wirelessly).
- Verify you are using the correct web address (www.routerlogin.net or www.routerlogin.com) or the Nighthawk app.
- Clear your browser's cache and cookies, or try a different web browser.
- If you forgot your login credentials, a factory reset may be necessary (refer to Section 6.2).

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	R6700-100NAS
Wireless Type	802.11ac
Wireless Speed	Up to 1750 Mbps (AC1750)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Ethernet Ports	4 x 1 Gigabit Ethernet LAN ports
USB Ports	1 x USB 3.0 port
Processor	1GHz Dual Core Processor
Antennas	3 amplified external antennas
Coverage Area	Up to 1500 Sq Ft
Recommended Devices	Up to 25 devices
Security Protocols	WPA2, DoS, Firewall, VPN
Operating System Support	Microsoft Windows 7, 8, 10, Vista, XP, 2000, Mac OS, UNIX, or Linux
Dimensions (LxWxH)	11.22 x 7.2 x 2.44 inches
Item Weight	1.65 pounds

9. WARRANTY AND SUPPORT

NETGEAR products are designed for reliability and performance. For specific warranty information applicable to your region, please refer to the warranty card included with your product or visit the official NETGEAR website.

For technical support, product registration, and access to the latest software and documentation, please visit the NETGEAR support website:

www.netgear.com/support/

The Nighthawk app also provides direct access to support resources and troubleshooting tools.