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› D-Link WiFi 6 Router AX1800 (DIR-X1870-US) Instruction Manual

## D-Link DIR-X1870-US

# D-Link WiFi 6 Router AX1800 (DIR-X1870-US) Instruction Manual

MODEL: DIR-X1870-US

## 1. Introduction

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This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your D-Link AX1800 WiFi 6 Router (Model DIR-X1870-US). This router is designed to deliver enhanced wireless performance and capacity for your home network, utilizing the latest Wi-Fi 6 (802.11ax) standard.



Image 1: Front view of the D-Link AX1800 WiFi 6 Router. This image displays the router's sleek black design with four external antennas, indicating its wireless capabilities.

### Key Features:

- **Next-Gen Speed and Range:** Combined speeds up to 1.8 Gbps, with 2.4 GHz band speeds up to 90% faster and 5 GHz band speeds up to 38% faster than equivalent 11AC routers.
- **Exceptional Capacity:** Up to 4x greater capacity than Wireless-AC, allowing more devices to connect simultaneously.
- **D-Link Wi-Fi Mesh Technology:** Create a seamless coverage network by combining with D-Link Wi-Fi Mesh-enabled solutions.
- **Smart Home Optimization:** Improved performance in device-dense environments with up to 4 simultaneous streams.
- **OFDMA:** Efficiently combines multiple small packets into a single packet for simultaneous data reception by multiple devices.
- **Target Wake Time (TWT):** Reduces battery consumption for smart home devices through more efficient transmission.
- **Voice Control:** Compatible with Alexa and Google Assistant for managing Wi-Fi access.

## 2. Setup and Installation

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## 2.1 What's in the Box

Verify that your package contains the following items:

- D-Link AX1800 WiFi 6 Router (DIR-X1870-US)
- Power Adapter
- Quick Installation Guide (QIG)
- Quick Installation Card (QIC)
- Ethernet Cable

## 2.2 Hardware Overview

Familiarize yourself with the ports and buttons on your router:



Image 2: Rear view of the D-Link AX1800 WiFi 6 Router. This image highlights the various ports and buttons on the back panel, including LAN ports, Internet (WAN) port, WPS button, Reset button, DC power connector, and Power button.

- **LAN Ports (x4):** Connect wired devices such as computers, gaming consoles, or network storage.

- **Internet Port (WAN):** Connects to your modem for internet access.
- **WPS Button:** For easy, secure connection of WPS-compatible wireless devices.
- **Reset Button:** Press and hold to restore factory default settings.
- **Power Connector:** Connects to the included power adapter.
- **Power Button:** Turns the router on or off.

## 2.3 Initial Setup Steps

1. **Power On:** Connect the power adapter to the router's Power Connector and plug it into a power outlet. Press the Power button if necessary. Wait for the power LED indicator to turn solid white.
2. **Connect to Modem:** Connect one end of the included Ethernet cable to the Internet (WAN) port on your router and the other end to the Ethernet port on your modem. Ensure your modem is powered on and connected to your internet service.
3. **Connect a Device:**
  - **Wired Connection:** Connect another Ethernet cable from one of the LAN ports on your router to an Ethernet port on your computer.
  - **Wireless Connection:** On your wireless device (smartphone, tablet, laptop), search for the Wi-Fi network name (SSID) printed on the Quick Installation Card or on a label on the bottom of the router. Connect to this network using the provided Wi-Fi password.
4. **Access Setup Wizard:** Open a web browser on your connected device. The setup wizard should automatically launch. If not, type <http://dlinkrouter.local/> or <http://192.168.0.1> into the address bar and press Enter. Follow the on-screen instructions to configure your internet connection and Wi-Fi settings.

## 2.4 D-Link Wi-Fi App Setup

For an easier setup experience, download the D-Link Wi-Fi app on your smartphone or tablet.

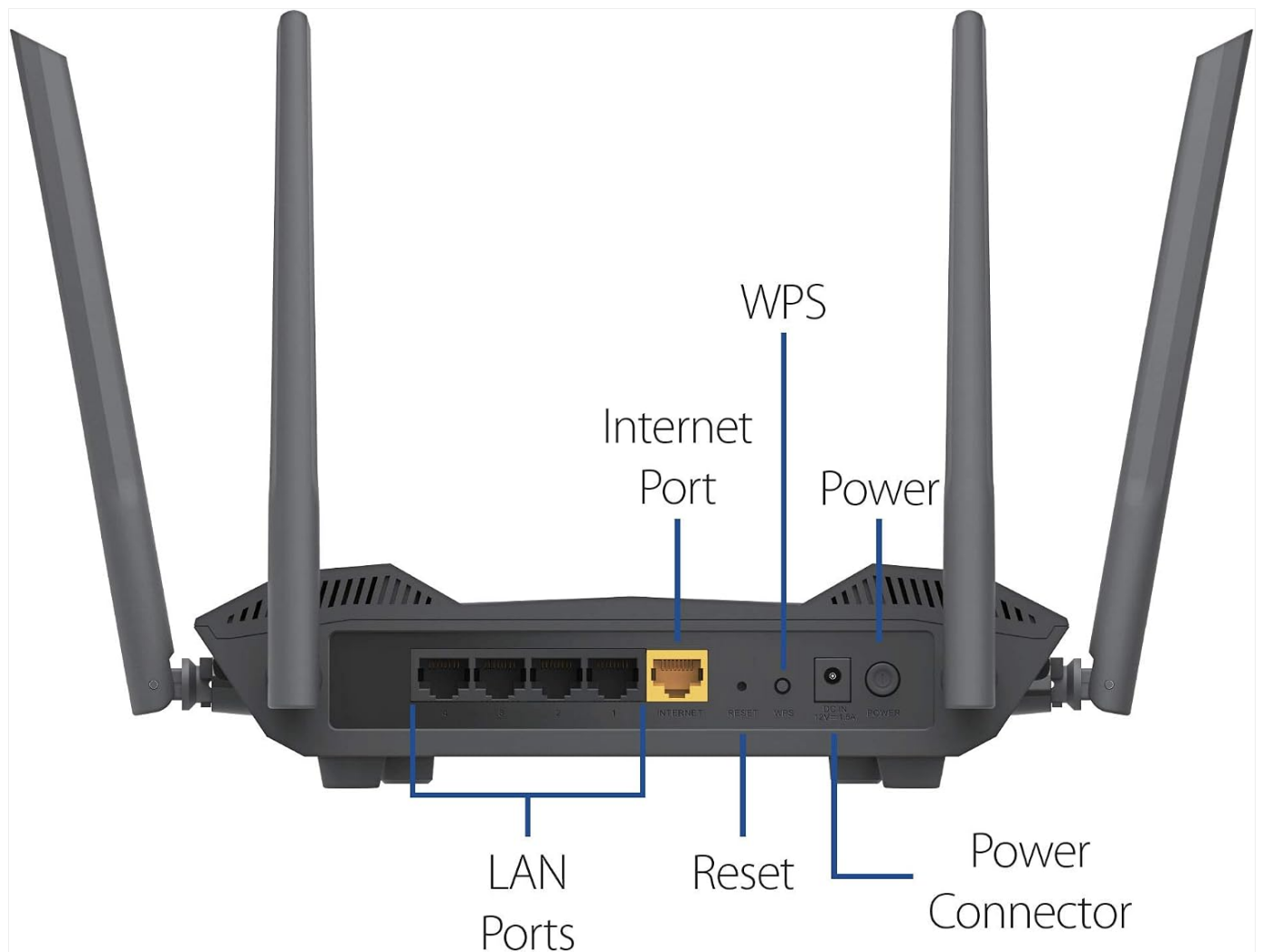


Image 3: Screenshot of the D-Link Wi-Fi app interface, showing options for parental control and app store download links. The app simplifies router setup and management.

Download the app from your device's app store:

[Download D-Link Wi-Fi App](#)

Follow the in-app instructions to complete the router installation and configuration.

## 3. Operating Your Router

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### 3.1 Wireless Network Configuration

You can modify your Wi-Fi network name (SSID) and password through the web-based management interface or the D-Link Wi-Fi app. It is recommended to use a strong, unique password for security.

# FASTER DUAL BAND SPEEDS

2.4GHz

5GHz

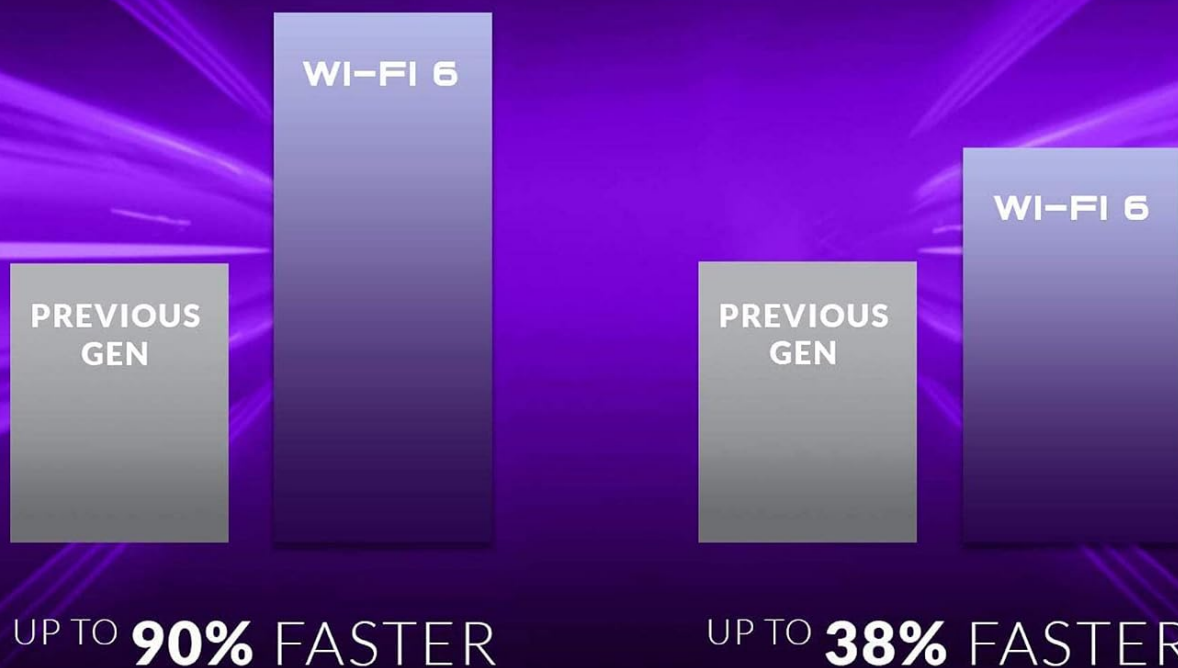


Image 4: A bar chart illustrating the speed improvements of Wi-Fi 6 compared to previous generations, showing up to 90% faster speeds on the 2.4GHz band and up to 38% faster on the 5GHz band.

## 3.2 D-Link Wi-Fi Mesh Technology

The DIR-X1870-US supports D-Link Wi-Fi Mesh, allowing you to expand your wireless coverage by adding compatible D-Link mesh extenders. This creates a single, seamless Wi-Fi network throughout your home.

# NEXT-GEN PERFORMANCE AND EFFICIENCY



**Delivers network efficiencies to experience  
faster speeds, greater capacity,  
and reduce congestion**

*Image 5: An illustration depicting Wi-Fi 6 signals covering an entire house, symbolizing next-gen performance and efficiency in network delivery.*

### **3.3 Enhanced Capacity and Efficiency**

Wi-Fi 6 technology provides up to four times greater capacity than previous standards, enabling more devices to connect simultaneously without compromising performance. Features like OFDMA and Target Wake Time (TWT) further optimize network efficiency and reduce device power consumption.

# EXCEPTIONAL CAPACITY



Connect more devices at faster speeds  
with up to 4X greater capacity than  
previous WiFi standards

*Image 6: A graphic showing the D-Link router centrally located, with arrows extending to various devices like laptops, smartphones, and gaming consoles, illustrating its exceptional capacity to connect multiple devices.*



# FUTURE PROOF YOUR WI-FI



**Wi-Fi 6 is better, faster, and more efficient,  
with improvements like...**

**OFDMA  
BSS Colouring  
More Wi-Fi Streams  
Target Wake Time**

**More Throughput  
Less Interference  
Shorter Response Times  
Longer Battery Life for Devices**

*Image 7: A diagram highlighting the benefits of Wi-Fi 6, including OFDMA, BSS Colouring, more Wi-Fi streams, Target Wake Time, increased throughput, less interference, shorter response times, and longer battery life for devices.*

## **3.4 Voice Control Integration**

The DIR-X1870-US router supports voice commands through Amazon Alexa and Google Assistant. This allows you to manage your network, such as enabling guest Wi-Fi, using simple voice commands.

## **3.5 Wireless Security**

The router supports advanced wireless encryption protocols to secure your network. It is crucial to use strong, unique passwords for your Wi-Fi networks to protect your data.

# FUTURE OF WIRELESS ENCRYPTION



**128-bit encryption for greater privacy, stronger protection and compatibility with previous protocols**

*Image 8: An illustration depicting a laptop connected to a Wi-Fi signal with a padlock icon, representing 128-bit encryption for enhanced privacy and stronger protection in wireless networks.*

## 4. Maintenance

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### 4.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed through the router's web-based management interface.

### 4.2 Backup and Restore Configuration

It is advisable to back up your router's configuration settings after initial setup and after any significant changes. This allows you to restore your settings quickly if a factory reset is ever required.

### 4.3 Factory Reset

If you encounter persistent issues or wish to clear all custom settings, you can perform a factory reset. To do this, with the

router powered on, use a paperclip to press and hold the Reset button on the back of the router for approximately 10 seconds until the power LED blinks. The router will then restart with default settings.

## 5. Troubleshooting

This section addresses common issues you might encounter with your D-Link router.

### 5.1 No Internet Connection

- Ensure all cables are securely connected to the router and modem.
- Check the status LEDs on both the router and modem. Refer to their respective manuals for LED interpretations.
- Power cycle both your modem and router: unplug them from power, wait 30 seconds, then plug the modem back in. Once the modem is fully online, plug the router back in.
- Verify your internet service provider (ISP) connection is active.

### 5.2 Slow Wireless Speeds or Dropped Connections

- **Router Placement:** Position the router in a central location, away from obstructions and interference sources (e.g., microwaves, cordless phones).
- **Interference:** Other wireless devices or neighboring Wi-Fi networks can cause interference. Try changing your Wi-Fi channel in the router settings.
- **Distance:** Signal strength decreases with distance. Consider using D-Link Wi-Fi Mesh extenders for larger homes.
- **Device Compatibility:** Ensure your wireless devices support Wi-Fi 6 for optimal performance.
- **Firmware:** Ensure your router's firmware is up to date.

### 5.3 Cannot Access Router Settings

- Ensure your device is connected to the router's network (wired or wireless).
- Verify you are using the correct IP address or domain name <http://dlinkrouter.local/> or <http://192.168.0.1>.
- Clear your browser's cache and cookies, or try a different browser.
- If you forgot your password, you may need to perform a factory reset (see Section 4.3).

## 6. Specifications

| Feature                         | Detail                                         |
|---------------------------------|------------------------------------------------|
| Model Number                    | DIR-X1870-US                                   |
| Product Dimensions              | 8.6 x 5.7 x 2.2 inches                         |
| Item Weight                     | 14.4 ounces                                    |
| Wireless Communication Standard | 802.11ac, 802.11ax (Wi-Fi 6), 802.11g, 802.11n |
| Frequency Band Class            | Dual-Band (2.4 GHz and 5 GHz)                  |
| Connectivity Technology         | Ethernet, Wi-Fi                                |
| LAN Ports                       | 4 x Gigabit Ethernet                           |
| WAN Port                        | 1 x Gigabit Ethernet                           |
| Special Feature                 | WPS, Voice Control (Alexa, Google Assistant)   |

| Feature              | Detail                                          |
|----------------------|-------------------------------------------------|
| Compatible Devices   | Personal Computer, Smart Home Devices           |
| Recommended Uses     | Home Network                                    |
| Included Components  | Router, power adapter, QIG, QIC, Ethernet cable |
| Manufacturer         | D-Link Systems, Inc.                            |
| Date First Available | November 5, 2020                                |

## 7. Warranty and Support

### 7.1 Warranty Information

D-Link products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official D-Link website for specific warranty terms and conditions applicable to your region.

### 7.2 Technical Support

If you require further assistance or encounter issues not covered in this manual, please contact D-Link Technical Support. Support resources, including FAQs, firmware downloads, and contact information, are available on the official D-Link website.

For additional resources, you may also refer to the official D-Link user manual PDF [D-Link DIR-X1870-US User Manual \(PDF\)](#)

### 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

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