



EXO | AX
NEXT GENERATION

AX1800 Mesh Wi-Fi 6 Router



DIR-X1870
User Manual

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.00	November 02, 2020	Initial release

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Power Usage

ErP Power Usage

This device is an Energy Related Product (ErP) that automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. If it is not needed during certain periods of time, it can be unplugged to save energy.

Network Standby: 2.88 watts

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Package Contents



DIR-X1870



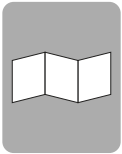
Power adapter



Ethernet Cable



Quick Installation Card



Quick Installation Guide

If any of the above items are missing or damaged, please contact your local reseller.

System Requirements

Network Requirements	• An Ethernet-based cable or DSL modem • IEEE 802.11ax/ac/n/g/b/a wireless clients • 10/100/1000 Mbps Ethernet
Web-based Configuration Utility Requirements	Computer with the following: • Windows, Macintosh, or Linux-based operating system • An installed Ethernet adapter or Wi-Fi interface Browser requirements: • Internet Explorer 10 or higher • Firefox 28 or higher • Safari 6 or higher • Chrome 28 or higher
D-Link Wi-Fi App Requirements	• iOS® or Android™ device (Please refer to the app's store page to check whether your device is compatible.)

Introduction

Why do you need Wi-Fi 6 (11ax)? Because your smart home isn't reaching the limits of its potential. The most common Wi-Fi standards in use today simply aren't built to support multiple personal devices and smart home gadgets running simultaneously 24/7. The DIR-X1870 AX1800 Mesh Wi-Fi 6 Router brings next-generation Wi-Fi technology into your home, giving you the quantum leap in capacity and bandwidth to support more devices at once. By combining high-speed 802.11ax Wi-Fi with dual-band technology and Gigabit Ethernet ports, the DIR-X1870 provides a seamless networking experience with a high degree of convenience and flexibility.

Mind-Blowing Speed and Range

The DIR-X1870 AX1800 Mesh Wi-Fi 6 Router brings a host of new technologies to create the best wireless networking experience to date. Unlike the existing 11ac wireless standard that operates only in the 5 GHz range, Wi-Fi 6 fully utilizes both 2.4 GHz and 5 GHz bands. It also comes with 1024 QAM to boost throughput to devices by up to 25%, and 80 MHz contiguous channel width for even more bandwidth. All this adds up to fast combined speeds of up to 1800 Mbps (1,201 Mbps + 574 Mbps). Built-in Power Amplifiers and beamforming extend the reach of your Wi-Fi and direct the signals where they need to go. Wi-Fi 6 lets you unleash all that lightning-fast Wi-Fi over larger areas from your bedroom and bathroom all the way to the basement and the backyard.

Made for Smart Home

The DIR-X1870 upgrades your network to the latest Wi-Fi 6 wireless technology which supports dual-band Wi-Fi with up to 4 simultaneous streams, handling all the connected devices you throw at it at the same time with ease. Enjoy simultaneous throughput to multiple devices for seamless high definition streaming media, VR gaming, and cloud storage. In addition, the DIR-X1870 future proofs your Internet as it utilizes a 10/100/1000 Mbps Gigabit Ethernet WAN port. The built-in Quality of Service (QoS) engine allows you to prioritize traffic to your preferred client, ensuring that your favorite devices are receiving optimal bandwidth.

Exceptional Capacity

If you thought Wi-Fi utilizing MU-MIMO was cool, wait until you meet Orthogonal Frequency Division Multiple Access (OFDMA). It's a signature technology in Wi-Fi 6 that splits a channel into four sub-channels. The result? Signals from multiple devices get transmitted together in one shot and never have to queue up again. Get an incredible 4x boost in your bandwidth capacity perfect for smart homes filled with bandwidth-hungry IoT devices threatening to devour your Wi-Fi capacity.

Unprecedented Network Efficiency

There's nothing worse than inefficient Wi-Fi putting a damper on your network experience. In environments with multiple routers or access points, BSS Coloring makes transmissions more unique by 'coloring' them with their own unique code, resulting in less interference and more range in congested Wi-Fi environments. Target Wake Time (TWT) efficiently schedules transmissions for client devices, meaning they know when to be ready for data and when to take a break, increasing your device's battery life. With the DIR-X1870, give your smart home the network efficiency boost it deserves.

Easy to Setup and Manage

Sharing your Internet connection doesn't have to be a complicated process; just download the free D-Link Wi-Fi app for your compatible iOS or Android device and follow the on-screen step-by-step instructions to set up your DIR-X1870. You also have the option to use a web browser to access the setup wizard and manage your router. In addition, access control features allow you to restrict access to your network, giving you greater control over network users. The DIR-X1870 even integrates voice assistant compatibility for Amazon Alexa and the Google Assistant so you can control your network with voice commands.

Always Up-to-Date with the Latest Features

Tired of having to check the website or going to the DIR-X1870's UI manually to check for the latest firmware updates? The DIR-X1870 will automatically check for updates on a daily basis to make sure that the device always has the latest features with the most secure firmware and installs updates silently in the background. For an extra peace of mind, in the event of failure during an automatic or manual firmware upgrade, the router will store a backup system image in the memory beforehand.

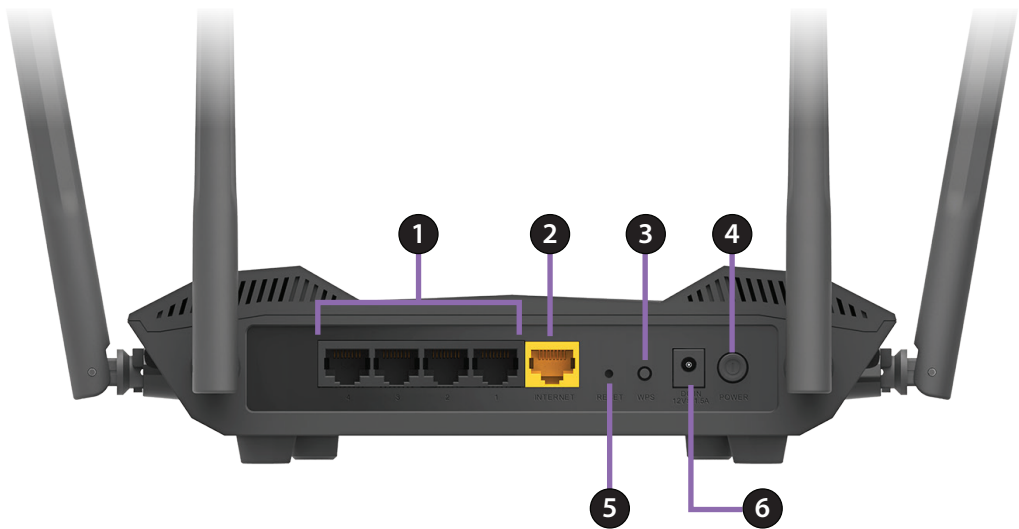
Hardware Overview

DIR-X1870 LED Indicator



1	Power	Solid White	The device is on and the system is healthy.
		Solid Orange	The device is booting up or performing the factory reset process.
		Blinking Orange	The device is under recovery mode.
2	Internet	Solid White	The Internet port connection is established.
		Solid Orange	The device cannot connect to the Internet.
		Blinking Orange	The device is undergoing the firmware upgrade process.
3	Wireless (2.4 GHz)	Solid White	The 2.4 GHz wireless band is enabled.
		Blinking White	The device is processing WPS.
4	Wireless (5 GHz)	Solid White	The 5 GHz wireless band is enabled.
		Blinking White	The device is processing WPS.

DIR-X1870 Rear



1	Gigabit LAN Ports (1- 4)	Connect Ethernet devices such as computers, switches, storage (NAS) devices, and game consoles.
2	Gigabit WAN Port	Using an Ethernet cable, connect your broadband modem to this port.
3	WPS	Press this button to establish an instant connection to a wireless client using Wi-Fi Protected Setup (WPS).
4	Power Button	Press the power button to power the device on or off.
5	Reset	Press and hold to perform a factory reset.
6	Power Connector	Connect the included power adapter here to power on the device.

Hardware Setup

Using the D-Link Wi-Fi App

The D-Link Wi-Fi app allows you to install and configure your device from a compatible Android or iOS device.

Note: The screenshots may be different depending on your mobile device's OS version. The following steps show the iOS interface of the D-Link Wi-Fi app. If you are using an Android device, the appearance may be different from that of the screenshots, but the process is the same.

Step 1

Search and install the free **D-Link Wi-Fi** app available on the App Store or on Google Play. You can also scan the QR code on the right, which will take you to the respective D-Link Wi-Fi app store page.



Step 2

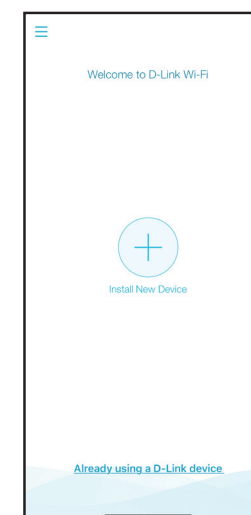
Launch the D-Link Wi-Fi app from the home screen of your device.



D-Link Wi-Fi

Step 3

Tap on the **Install New Device** button at the middle of the screen.



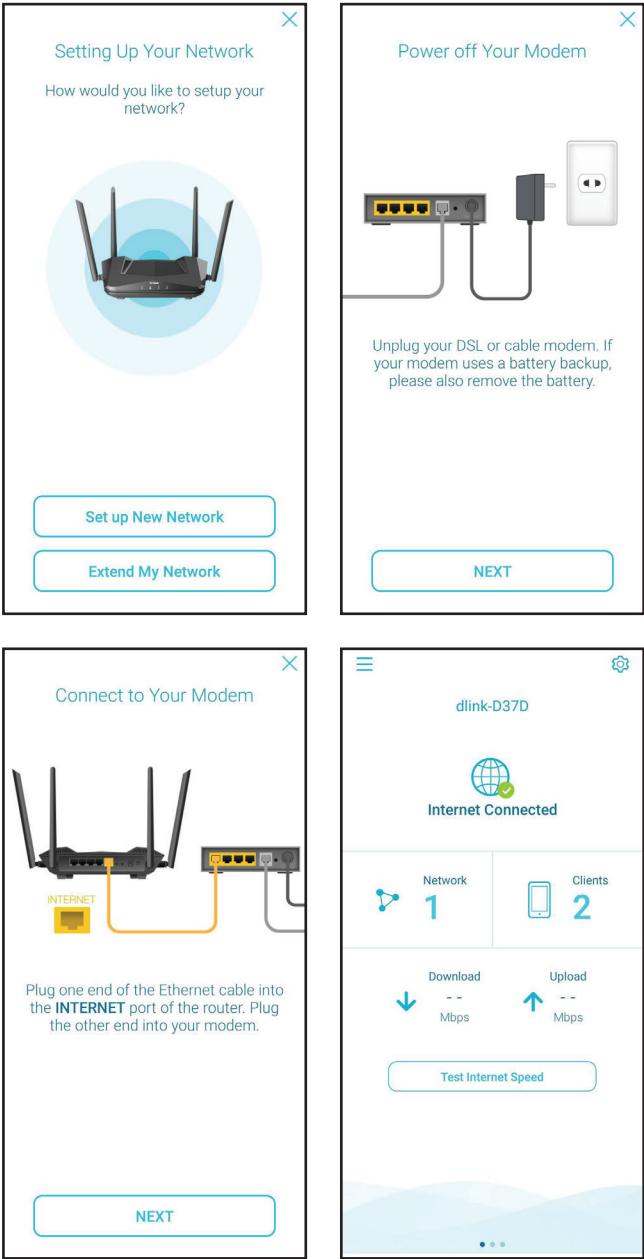
Step 4

Tap **Yes** to scan the setup QR code located in the Quick Install Card and proceed to step 6. Alternatively, you can tap **No** to proceed to step 5.



Step 5

Select your device and tap **Next** to continue. You will now be guided through a step-by-step process for setting up your product. Simply follow the on-screen instructions to complete the installation and the configuration process.

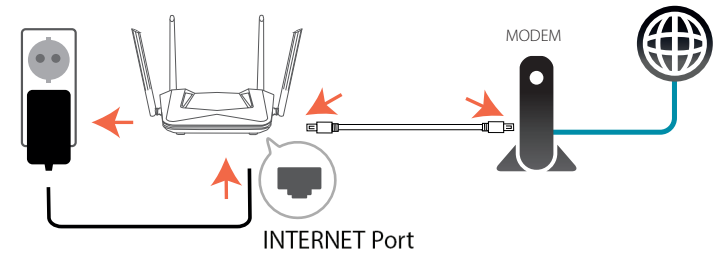


Web Based Installation

If you do not wish to use the D-Link Wi-Fi app, you can manually set up your device and configure your Wi-Fi network using the web-based user interface.

Step 1

Position the DIR-X1870 close to your Internet-connected modem and connect an Ethernet cable to the modem and to the WAN port of the DIR-X1870. Next, connect the power adapter and plug the DIR-X1870 into a power outlet.



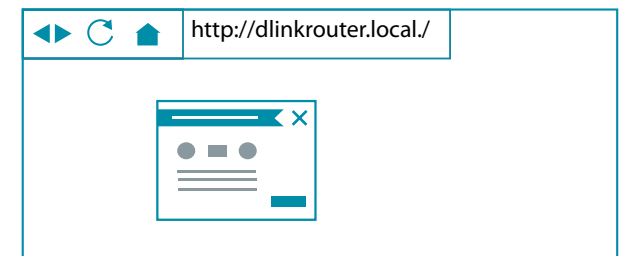
Step 2

Wait for the DIR-X1870 to boot up. When the wireless LEDs are solidly lit, wirelessly connect your computer to the Wi-Fi name (SSID) printed on the bottom of the device, or on the included Quick Install Card.



Step 3

Type **http://dlinkrouter.local/** into a web browser and follow the on-screen instructions to complete the setup.



Your device is now set up and ready to use. You can now configure your DIR-X1870 Wi-Fi settings using the free D-Link Wi-Fi mobile app or the web-based user interface. Refer to the **Configuration** section on page **page 11** for more information on configuring your network using the web-based user interface.

Configuration

Accessing the Web User Interface

You can access the web-based user interface using one of the following web browsers:

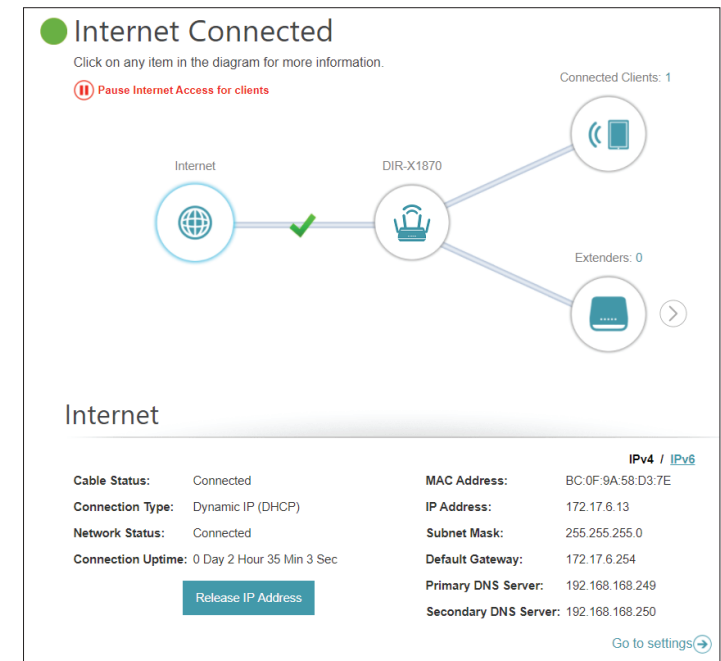
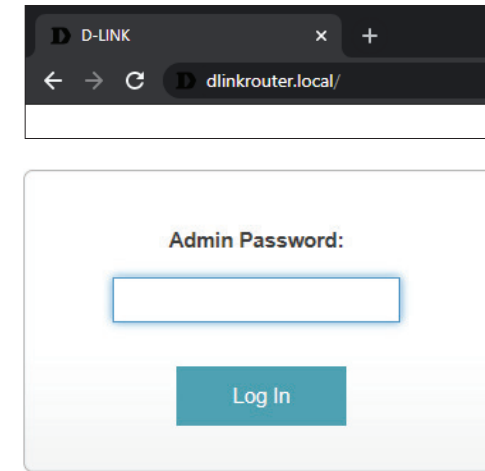
- Internet Explorer 10 or higher
- Firefox 28 or higher
- Safari 6 or higher
- Chrome 28 or higher

1. Open a web browser.
2. Type **http://dlinkrouter.local/** in the address bar.
3. Specify the admin password.

- If this is the first logging in, the password is "**password**"
- If you have previously configured the device with the Setup Wizard, use the password you created during initial setup

4. Click **Log In**.

Note: The system will automatically log out after a period of inactivity.



Home

The Home page displays the current status of your Wi-Fi network in the form of an interactive diagram. You can click each icon to display information about each part of the network at the bottom of the screen. The menu bar at the top of the page will allow you to quickly navigate to other pages. Refer to the following pages for a description of each section.

● Internet Connected

Click on any item in the diagram for more information.

⏸ Pause Internet Access for clients

Internet

DIR-X1870

Connected Clients: 1

Extenders: 0

Internet

Cable Status: Connected

Connection Type: Dynamic IP (DHCP)

Network Status: Connected

Connection Uptime: 0 Day 2 Hour 35 Min 3 Sec

Release IP Address

MAC Address: BC:0F:9A:58:D3:7E

IP Address: 172.17.6.13

Subnet Mask: 255.255.255.0

Default Gateway: 172.17.6.254

Primary DNS Server: 192.168.168.249

Secondary DNS Server: 192.168.168.250

IPv4 / IPv6

Go to settings

D-Link DIR-X1870

12

Internet

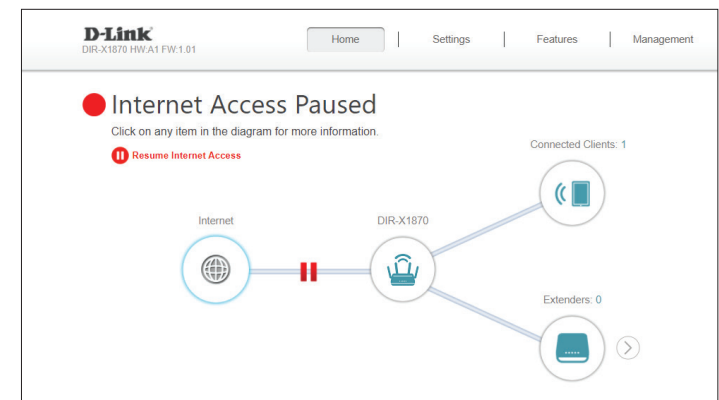
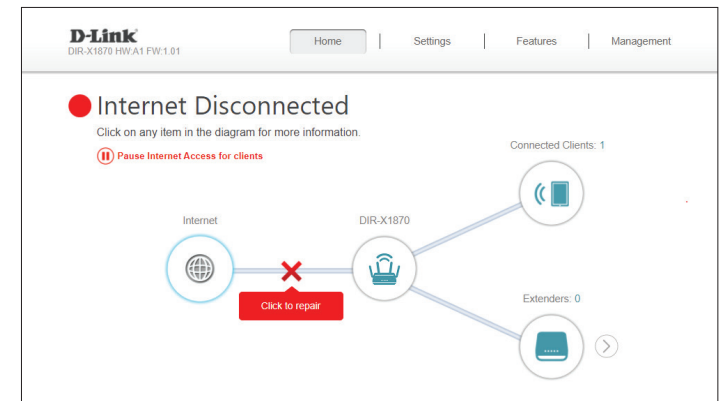
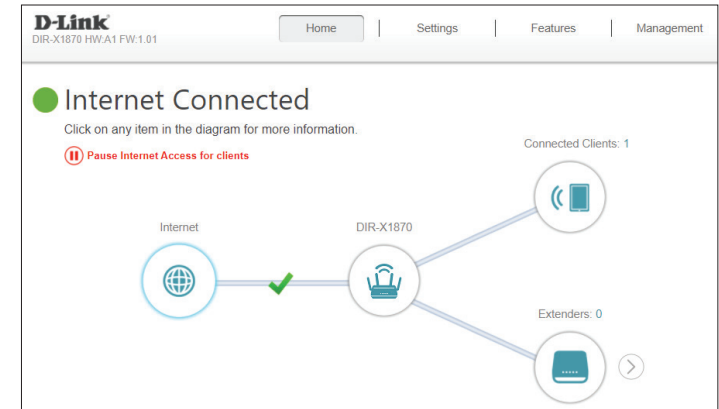
Click on the **Internet** icon to bring up more details about your Internet connection. Click **IPv4** or **IPv6** to see details of the IPv4 and IPv6 connection respectively.

The Home page displays whether or not the DIR-X1870 is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard, refer to **Wizard** on page **18** for more information.

Click **Release IP Address** to release the current IP address and disconnect from the Internet. If you wish to reconnect the Internet, click **Renew IP Address**.

Click **Pause Internet Access for clients** to temporarily disconnect the Internet connection, alternatively click **Resume Internet Access** to resume the Internet access if previously paused.

To reconfigure the Internet settings, click **Go to settings** at the bottom-right.



DIR-X1870

Click on the **DIR-X1870** icon to view details about the DIR-X1870's wireless and local network settings. This includes IPv4 and IPv6 local networks, and Wi-Fi information.

This overview is only informational. To configure these sections, refer to the corresponding configuration sections in this manual.

D-Link
DIR-X1870 HW:V1 FW:1.01

Home | Settings | Features | Management

Internet Connected

Click on any item in the diagram for more information.

Pause Internet Access for clients

Connected Clients: 1

Extenders: 0

Internet

DIR-X1870

DIR-X1870

IPv4 Network

MAC Address: BC:0F:9A:58:D3:7D

Router IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0

Wi-Fi

Status: Enabled

Wi-Fi Name (SSID): dlink-D37D

Password: ybyvj74344

IPv6 Network

Link-Local Address: FE80::BE0F:9AFF:FE58:D37D

Router IPv6 Address: Not Available

DHCP-PD: Enabled

Assigned Prefix: /

Go to settings

Connected Clients

Click on the **Connected Clients** icon to view details about the clients currently connected to your Wi-Fi network.

To edit each client's settings, click the pencil icon on the client you want to edit.

Name: Displays the name of this client. You can edit the client's name here.

Vendor: Displays the vendor of the device.

MAC Address: Displays the MAC address of the device.

IP Address: Displays the current IP address of this client.

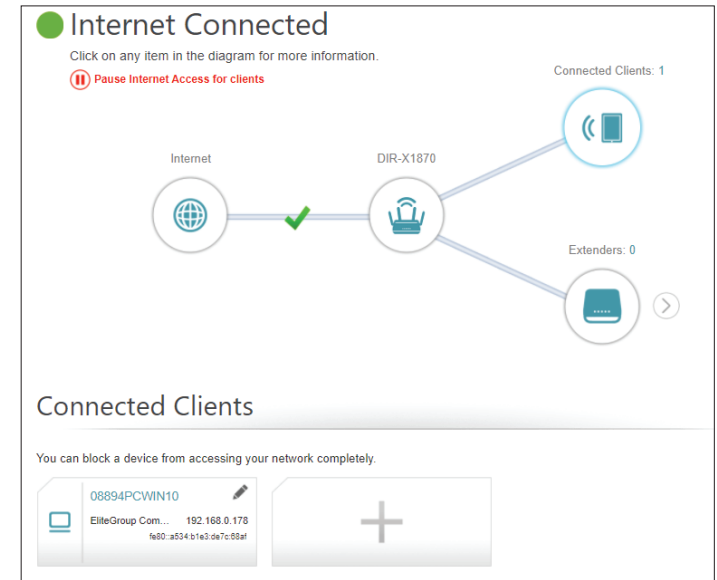
Reserve IP: Enable to reserve an IP address for this client.

IP Address (Reserved): Specify an IP address for the DHCP server to assign to this client.

Parental Control: Enable or disable parental control to allow or block access to the network for this user.

Schedule: If **Parental Control** is enabled, use the drop-down menu to select the time schedule that the rule will be enabled for. The schedule may be set to **Always Off**, or you can create your own schedules in the **Schedule** section. Refer to **Schedule** on page 62 for more information.

Click **Save** when you are done.



The 'Edit Rule' form displays the configuration for a specific client. The fields are as follows:

- Name:** 08894PCWIN10
- Vendor:** EliteGroup Computer Systems Co., LTD
- MAC Address:** 94:C6:91:7F:E2:28
- IP Address:** 192.168.0.178
- Reserve IP:** Enabled (toggle switch)
- Remaining:** 24
- IP Address (Reserved):** (empty text field)
- Parental Control:** Enabled (toggle switch)
- Profile:** Always Block (dropdown menu)
- Save:** (button)

Extenders

Click on the **Extenders** icon to view details about all additional devices in your Mesh Wi-Fi network.

To edit an extender's name, click the pencil icon in the top-right of the box of the extender that you want to rename.

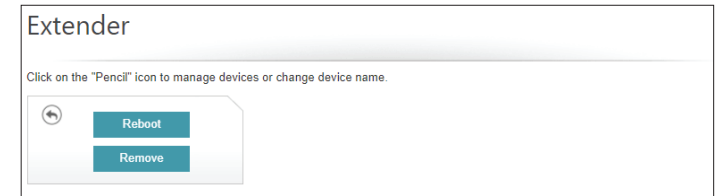
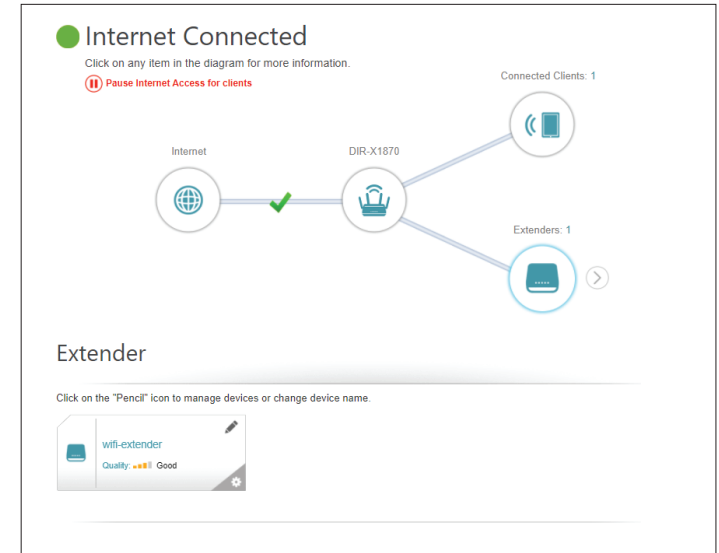
To reboot an extender, click the settings icon in the bottom-right of the extenders's box and click **Reboot**.

To remove an extender from your Mesh Wi-Fi network, click the settings icon in the bottom-right of the extenders's box and click **Remove**.

Name: Enter a name for the DIR-X1870.

MAC Address: Displays the MAC address of the DIR-X1870.

Click **Save** when you are done.



The screenshot shows the 'Edit Name' dialog box. It has a title 'Edit Name' and a close button (X). The form contains a 'Name:' field with the value 'wifi-extender' and a 'MAC Address:' field with the value 'F0:B4:D2:20:B1:66'. At the bottom is a 'Save' button.

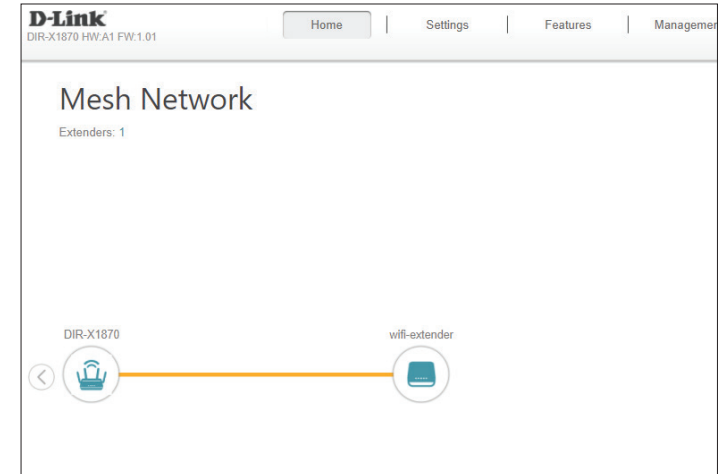
Mesh Network

Click on the **Extenders** icon to view details about all additional devices in your Mesh Wi-Fi network.

To edit an extender's name, click the pencil icon in the top-right of the box of the extender that you want to rename.

To reboot an extender, click the settings icon in the bottom-right of the extenders's box and click **Reboot**.

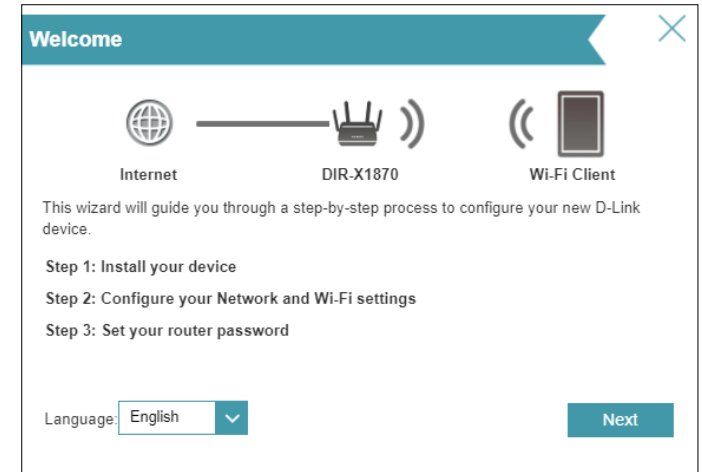
To remove an extender from your Mesh Wi-Fi network, click the settings icon in the bottom-right of the extenders's box and click **Remove**.



Settings Wizard

In the Settings menu on the bar on the top of the page, click **Wizard** to open the setup wizard. This is the same wizard that appears when you set up the device using the web-user interface for the first time.

This Wizard will also launch when clicking the **Click to Repair** button when no Internet connection is detected.



Internet IPv4

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options.

My Internet Connection Is: Choose your Internet connection type from the drop-down menu. You will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Dynamic IP (DHCP)** refer to **Dynamic IP (DHCP) on page 20**.

For **Static IP** refer to **Static IP on page 21**.

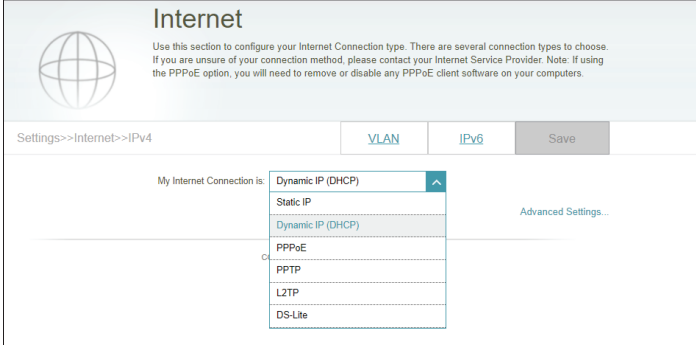
For **PPPoE** refer to **PPPoE on page 22**.

For **PPTP** refer to **PPTP on page 24**.

For **L2TP** refer to **L2TP on page 26**.

For **DS-Lite** refer to **DS-Lite on page 28**.

To configure an IPv6 connection, click the **IPv6** link. Refer to page **29**.



The screenshot shows the 'Internet' configuration page. At the top, there is a header with a globe icon and the title 'Internet'. Below the header, there is a sub-header 'Settings>>Internet>>IPv4' and three tabs: 'VLAN', 'IPv6', and 'Save'. The main content area is titled 'My Internet Connection is:' and features a dropdown menu. The dropdown menu is open, showing a list of connection types: 'Dynamic IP (DHCP)', 'Static IP', 'Dynamic IP (DHCP)', 'PPPoE', 'PPTP', 'L2TP', and 'DS-Lite'. The 'Dynamic IP (DHCP)' option is currently selected. To the right of the dropdown menu, there is a link labeled 'Advanced Settings...'. The background of the page is light blue with a subtle grid pattern.

Dynamic IP (DHCP)

Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your Internet Service Provider (ISP). Select this option if your ISP does not specify an IP address to use.

Advanced Settings

Host Name: The host name is optional but may be required by some ISPs. Leave it blank if you are not sure.

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

MAC Address Clone: The default MAC address is set to the physical interface MAC address of port **1** on the device. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.

The screenshot shows the D-Link DIR-X1870 Internet Settings page. The breadcrumb trail is "Settings > Internet > IPv4". The "Internet" section title is present, along with a globe icon and a note about connection types. The "My Internet Connection is:" dropdown menu is set to "Dynamic IP (DHCP)". Below this, there are input fields for "Host Name", "Primary DNS Server", and "Secondary DNS Server". The "MTU" is set to "1500". The "MAC Address Clone" dropdown menu is set to "<< MAC Address". A "Save" button is visible in the top right corner of the settings area.

Static IP

Select **Static IP** if your IP information is provided by your Internet Service Provider (ISP).

IP Address: Enter the IP address provided by your ISP.

Subnet Mask: Enter the subnet mask provided by your ISP.

Default Gateway: Enter the default gateway address provided by your ISP.

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP.

Advanced Settings

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

MAC Address Clone: The default MAC address is set to the physical interface MAC address of port **1** on the device. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.

The screenshot shows the D-Link DIR-X1870 web interface. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' tab is active. Below the navigation bar, there's a header section with the D-Link logo and the text 'Internet'. A note states: 'Use this section to configure your Internet Connection type. There are several connection types to choose. If you are unsure of your connection method, please contact your Internet Service Provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' Below this, there's a breadcrumb trail 'Settings>>Internet>>IPv4' and three tabs: 'VLAN', 'IPv6', and 'Save'. The 'Static IP' option is selected under 'My Internet Connection is:'. The form includes input fields for 'IP Address', 'Subnet Mask', 'Default Gateway', and 'Primary DNS Server'. There's a link for 'Advanced Settings...'. Below that, there's a 'Secondary DNS Server' field, an 'MTU' field set to '1500', and a 'MAC Address Clone' field with a dropdown menu showing '<< MAC Address'.

PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet.

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Reconnect Mode: Select either **Always on**, **On Demand**, or **Manual**.

Maximum Idle Time: Enter a maximum idle time (in minutes) during which the Internet connection is maintained during inactivity. To disable this feature, select **Always on** as the reconnect mode.

Advanced Settings

Address Mode: Select **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

If you selected **Dynamic IP** as the Address Mode:

Service Name: Enter the ISP service name (optional).

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

The screenshot shows the 'Internet' configuration page in the D-Link DIR-X1870 web interface. The page has a header with 'D-Link' and 'DIR-X1870 HW v1 FW 1.01'. The main content area is titled 'Internet' and includes a globe icon. Below the title, there is a note: 'Use this section to configure your Internet Connection type. There are several connection types to choose. If you are unsure of your connection method, please contact your Internet Service Provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' The page has tabs for 'VLAN' and 'IPv6', and a 'Save' button. The 'My Internet Connection is:' dropdown is set to 'PPPoE'. Below this, there are fields for 'Username:', 'Password:', and 'Reconnect Mode:' (set to 'Always on'). There is a link for 'Advanced Settings...'. Below that, there are fields for 'Address Mode:' (set to 'Dynamic IP'), 'Service Name:', 'Primary DNS Server:', 'Secondary DNS Server:', 'MTU:' (set to 1492), and 'MAC Address Clone:' (set to '<< MAC Address').

PPPoE (continued)

MAC Address Clone: The default MAC address is set to the physical interface MAC address of port **1** on the device. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

If you selected **Static IP** as the Address Mode:

IP Address: Enter the IP address provided by your ISP.

Service Name: Enter the ISP service name (optional).

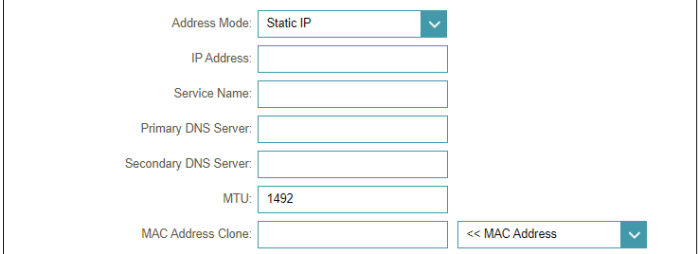
Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

MAC Address Clone: The default MAC address is set to the physical interface MAC address of port **1** on the device. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.



The screenshot shows a configuration form with the following fields and values:

- Address Mode: Static IP (dropdown menu)
- IP Address: (empty text box)
- Service Name: (empty text box)
- Primary DNS Server: (empty text box)
- Secondary DNS Server: (empty text box)
- MTU: 1492 (text box)
- MAC Address Clone: (empty text box) with a dropdown menu showing "<< MAC Address"

PPTP

Choose **PPTP** (Point-to-Point-Tunneling Protocol) if your Internet Service Provider (ISP) uses a PPTP connection. Your ISP will provide you with a username and password.

PPTP Server: Enter the PPTP server IP address provided by your ISP.

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Reconnect Mode: Select either **Always on**, **On demand**, or **Manual**.

Maximum Idle Time: Enter a maximum idle (in minutes) time during which the Internet connection is maintained during inactivity. To disable this feature, select **Always on** as the reconnect mode.

Advanced Settings

Address Mode: Select **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

If you selected **Dynamic IP** as the Address Mode:

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

The screenshot shows the D-Link DIR-X1870 web interface. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' tab is active, and the 'Internet' sub-tab is selected. The 'My Internet Connection is:' dropdown is set to 'PPTP'. Below this, there are input fields for 'PPTP Server', 'Username', and 'Password'. The 'Reconnect Mode' dropdown is set to 'Always on'. At the bottom, there are fields for 'Address Mode' (set to 'Dynamic IP'), 'Primary DNS Server', 'Secondary DNS Server', and 'MTU' (set to '1400'). A 'Save' button is located at the top right of the settings area.

PPTP (continued)

If you selected **Static IP** as the Address Mode:

PPTP IP Address: Enter the IP address provided by your ISP.

PPTP Subnet Mask: Enter the subnet mask provided by your ISP.

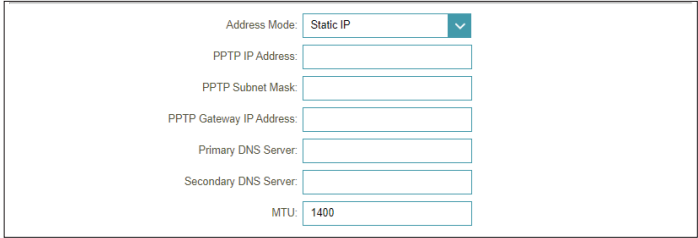
PPTP Gateway IP Address: Enter the gateway IP address provided by your ISP.

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

Click **Save** when you are done.



The screenshot shows a configuration window with the following fields:

- Address Mode: Static IP (dropdown menu)
- PPTP IP Address: (text input field)
- PPTP Subnet Mask: (text input field)
- PPTP Gateway IP Address: (text input field)
- Primary DNS Server: (text input field)
- Secondary DNS Server: (text input field)
- MTU: 1400 (text input field)

L2TP

Choose **L2TP** (Layer 2 Tunneling Protocol) if your Internet Service Provider (ISP) uses a L2TP connection. Your ISP will provide you with a username and password.

L2TP Server: Enter the L2TP server IP address provided by your ISP.

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Reconnect Mode: Select either **Always on**, **On demand**, or **Manual**.

Maximum Idle Time: Enter a maximum idle (in minutes) time during which the Internet connection is maintained during inactivity. To disable this feature, select **Always on** as the reconnect mode.

Advanced Settings

Address Mode: Select **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

If you selected **Dynamic IP** as the Address Mode:

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

The screenshot shows the 'Internet' configuration page. At the top, there's a header 'Internet' with a sub-header 'Use this section to configure your Internet Connection type. There are several connection types to choose. If you are unsure of your connection method, please contact your Internet Service Provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' Below this, there are tabs for 'IPv4', 'VLAN', and 'IPv6', with a 'Save' button. The 'My Internet Connection is:' dropdown is set to 'L2TP'. Underneath, there are fields for 'L2TP Server: IP or Domain name', 'Username:', 'Password:', and 'Reconnect Mode: Always on'. There is a link for 'Advanced Settings...'. At the bottom, there are fields for 'Address Mode: Dynamic IP', 'Primary DNS Server:', 'Secondary DNS Server:', and 'MTU: 1400'.

L2TP (continued)

If you selected **Static IP** as the Address Mode:

L2TP IP Address: Enter the IP address provided by your ISP.

L2TP Subnet Mask: Enter the subnet mask provided by your ISP.

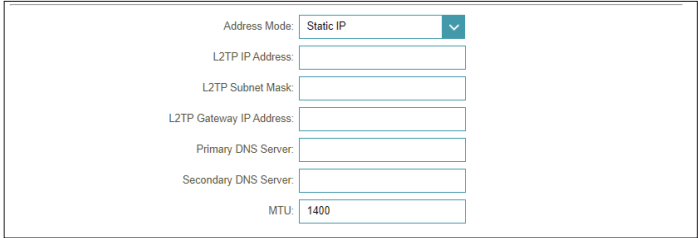
L2TP Gateway IP Address: Enter the gateway IP address provided by your ISP.

Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP.

Secondary DNS Server: Enter the secondary DNS server IP address assigned by your ISP.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

Click **Save** when you are done.



The screenshot shows a configuration window with the following fields:

- Address Mode: Static IP (dropdown menu)
- L2TP IP Address: (text input field)
- L2TP Subnet Mask: (text input field)
- L2TP Gateway IP Address: (text input field)
- Primary DNS Server: (text input field)
- Secondary DNS Server: (text input field)
- MTU: 1400 (text input field)

DS-Lite

DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration:

Advanced Settings

DS-Lite Configuration: Select **DS-Lite DHCPv6 Option** to let the device allocate the AFTR IPv6 address automatically. Select **Manual Configuration** to enter the AFTR IPv6 address manually.

If you selected **DS-Lite DHCPv6 Option** as the DS-Lite Configuration:

B4 IPv6 Address: Enter the B4 IPv4 address value used here.

WAN IPv6 Address: Once connected, the WAN IPv6 address will be displayed here.

IPv6 WAN Default Gateway: Once connected, the IPv6 WAN default gateway address will be displayed here.

If you selected **Manual Configuration** as the DS-Lite Configuration:

AFTR IPv6 Address: Enter the AFTR IPv6 address used here.

B4 IPv6 Address: Enter the B4 IPv4 address value used here.

WAN IPv6 Address: Once connected, the WAN IPv6 address will be displayed here.

IPv6 WAN Default Gateway: Once connected, the IPv6 WAN default gateway address will be displayed here.

Click **Save** when you are done.

D-Link
DIR-X1870 HW: A1 FW: 1.01

Home | Settings | Features | Management

Internet

Use this section to configure your Internet Connection type. There are several connection types to choose. If you are unsure of your connection method, please contact your Internet Service Provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Settings>>Internet>>IPv4

VLAN | IPv6 | Save

My Internet Connection is: **DS-Lite**

[Advanced Settings...](#)

DS-Lite Configuration: **DS-Lite DHCPv6 Option**

B4 IPv4 Address: 192.0.0.

WAN IPv6 Address: Not Available

IPv6 WAN Default Gateway: Not Available

DS-Lite Configuration: **Manual Configuration**

AFTR IPv6 Address:

B4 IPv4 Address: 192.0.0.

WAN IPv6 Address: Not Available

IPv6 WAN Default Gateway: Not Available

IPv6

To configure an IPv6 connection, click the **IPv6** link. To return to the IPv4 settings, click **IPv4**.

My Internet Connection Is: Choose your IPv6 connection type from the drop-down menu. You will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Static IPv6** refer to page **30**.

For **Auto Configuration (SLAAC/DHCPv6)** refer to page **32**.

For **PPPoE** refer to page **34**.

For **6rd** refer to page **37**.

For **Local Connectivity Only** refer to page **39**.



Static IPv6

Select **Static IP** if your IPv6 information is provided by your Internet Service Provider (ISP).

Use Link-Local Address: Enable or disable link-local address use. Enabling this feature will use your local IPv6 address as the static IP. Disable this feature to manually enter your static IPv6 address and subnet prefix length.

IPv6 Address: If **Use Link-Local Address** is disabled, enter the address supplied by your ISP.

Subnet Prefix Length: If **Use Link-Local Address** is disabled, enter the subnet prefix length supplied by your ISP.

Default Gateway: Enter the default gateway for your IPv6 connection.

Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

LAN IPv6 Address Settings

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the device.

LAN IPv6 Link-Local Address: Displays the DIR-X1870's LAN link-local address.

The screenshot shows the D-Link DIR-X1870 IPv6 settings page. The page has a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' tab is selected. The page title is 'IPv6' with a subtitle 'All of your IPv6 Internet and network connection details are displayed on this page.' The breadcrumb trail is 'Settings>>Internet>>IPv6'. There are tabs for 'VLAN', 'IPv4', and 'Save'. The 'My Internet Connection is:' dropdown is set to 'Static IPv6'. The 'Use Link-Local Address:' dropdown is set to 'Disabled'. The 'IPv6 Address:' field is empty. The 'Subnet Prefix Length:' field is empty. The 'Default Gateway:' field is empty. The 'Primary DNS Server:' field is empty. The 'Secondary DNS Server:' field is empty.

The screenshot shows the 'LAN IPv6 Address Settings' page. It has a title 'LAN IPv6 Address Settings'. The 'LAN IPv6 Address:' field is filled with 'FE80::76DA:DAFF:FED9:1057' and has a '/64' suffix. Below it, the 'LAN IPv6 Link-Local Address:' is displayed as 'FE80::76DA:DAFF:FED9:1057'. There is a link for 'Advanced Settings'.

Static IPv6 (Continued)

Advanced Settings - Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enable or disable the Automatic IPv6 Address Assignment feature.

Autoconfiguration Type: Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime: Enter the router advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Range (Start): Enter the starting IPv6 address for the DHCP server’s IPv6 assignment.

IPv6 Address Range (End): Enter the ending IPv6 address for the DHCP server’s IPv6 assignment.

IPv6 Address Lifetime: Enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff:: 00

IPv6 Address Range (End): ffff:: 00

IPv6 Address Lifetime: 10080 minutes

Auto Configuration (SLAAC/DHCPv6)

Select **Auto Configuration (SLAAC/DHCPv6)** if your ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to adjust these settings before your router can connect to the IPv6 Internet.

IPv6 DNS Settings

DNS Type: Select either **Obtain DNS server address automatically** or **Use the following DNS address**.

If **Use the following DNS address** is selected:

Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

LAN IPv6 Address Settings

Enable DHCP-PD: Enable or disable prefix delegation services.

LAN IPv6 Link-Local Address: Displays the DIR-X1870's LAN link-local address.

If **Enable DHCP-PD** is disabled, these additional parameters are available for configuration:

LAN IPv6 Address: Enter a valid LAN IPv6 address.

LAN IPv6 Link-Local Address: Displays the device's LAN link-local address.

Auto Configuration (SLAAC/DHCPv6) (Continued)

Advanced Settings - Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enable or disable the Automatic IPv6 Address Assignment feature. Enabling this feature presents additional configuration options.

Enable Automatic DHCP-PD in LAN: Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. This option is only available if **Enable DHCP-PD** is enabled.

Note: This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

Autoconfiguration Type: Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime: Enter the router advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Range (Start): Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

IPv6 Address Range (End): Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

IPv6 Address Lifetime: If **Enable DHCP-PD** is disabled, enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff::00

IPv6 Address Range (End): ffff::00

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff::00

IPv6 Address Range (End): ffff::00

IPv6 Address Lifetime: 10080 minutes

PPPoE

Select **PPPoE** if your ISP provides and requires you to enter a PPPoE username and password in order to connect to the Internet.

PPPoE Session: Select **Create a new session** to start a new PPPoE session.

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

Address Mode: Select **Static IP** if your ISP assigned you an IP address. In most cases, select **Dynamic IP**.

IP Address: If you selected **Static IP** as the Address Mode, enter the IP address provided by your ISP.

Service Name: Enter the ISP service name (optional).

Reconnect Mode: Select either **Always On** or **Manual**.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

The screenshot shows the D-Link DIR-X1870 IPv6 configuration interface. The page title is "IPv6" with a subtitle "All of your IPv6 Internet and network connection details are displayed on this page." The navigation bar includes "Home", "Settings", "Features", and "Management". The "Settings" tab is active, and the "Internet" section is selected, showing "IPv6" settings. The "My Internet Connection is:" dropdown is set to "PPPoE". The "PPPoE Session:" dropdown is set to "Create a new session". The "Username:" and "Password:" fields are empty. The "Address Mode:" dropdown is set to "Dynamic IP". The "Service Name:" field is empty. The "Reconnect Mode:" dropdown is set to "Always on". The "MTU:" field is set to "1492 bytes". A "Save" button is visible in the top right corner.

PPPoE (Continued)

IPv6 DNS Settings

DNS Type: Select either **Obtain DNS server address automatically** or **Use the following DNS address**.

If **Use the following DNS address** is selected:

Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

LAN IPv6 Address Settings

Enable DHCP-PD: Enable or disable prefix delegation services.

LAN IPv6 Link-Local Address: Displays the device's LAN link-local address.

If **Enable DHCP-PD** is disabled, these additional parameters are available for configuration:

LAN IPv6 Address: Enter a valid LAN IPv6 address.

LAN IPv6 Link-Local Address: Displays the device's LAN link-local address.

IPv6 DNS Settings

DNS Type: Obtain a DNS server address automatically

IPv6 DNS SETTINGS

DNS Type: Use the following DNS address

Primary DNS Server:

Secondary DNS Server:

LAN IPv6 Address Settings

Enable DHCP-PD: Enabled

LAN IPv6 Link-Local Address: FE80::76DA:DAFF:FED9:1057

Advanced Settings...

LAN IPv6 Address Settings

Enable DHCP-PD: Disabled

LAN IPv6 Address: /64

LAN IPv6 Link-Local Address: FE80::76DA:DAFF:FED9:1057

Advanced Settings...

PPPoE (Continued)

Advanced Settings - Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enable or disable the Automatic IPv6 Address Assignment feature. Enabling this feature presents additional configuration options.

Enable Automatic DHCP-PD in LAN: Enable or disable DHCP-PD for other IPv6 routers connected to the LAN interface. This option is only available if **Enable DHCP-PD** is enabled.

Note: This feature requires a smaller subnet prefix than /64 (i.e. allowing for a larger address allocation), such as /63. Contact your ISP for more information.

Autoconfiguration Type: Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Router Advertisement Lifetime: Enter the router advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Range (Start): Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

IPv6 Address Range (End): Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

IPv6 Address Lifetime: If **Enable DHCP-PD** is disabled, enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Enable Automatic DHCP-PD in LAN: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ffff::00

IPv6 Address Range (End): ffff::00

IPv6 Address Lifetime: 10080 minutes

6rd

In this section the user can configure the IPv6 **6rd** connection settings.

Assign IPv6 Prefix: Currently unsupported.

Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

6rd Manual Configuration

Enable Hub and Spoke Mode: Enable this feature to minimize the number of routes to the destination by using a hub and spoke method of networking.

6rd Configuration: Choose the **6rd DHCPv4 Option** to automatically discover and populate the data values, or choose **Manual Configuration** to enter the settings yourself.

If you selected **Manual Configuration** as the 6rd Configuration:

6rd IPv6 Prefix: Enter the 6rd IPv6 prefix and mask length supplied by your ISP.

WAN IPv4 Address: Displays the device's IPv4 address.

6rd Border Relay IPv4 Address: Enter the 6rd border relay IPv4 address settings supplied by your ISP.

LAN IPv6 Address Settings

LAN IPv6 Address: Displays the device's LAN IPv6 Address link-local address.

LAN IPv6 Link-Local Address: Displays the device's LAN link-local address.

D-Link DIR-X1870 HW:V1 FW:1.01

Home | Settings | Features | Management

IPv6

All of your IPv6 Internet and network connection details are displayed on this page.

Settings>>Internet>>IPv6

VLAN | IPv4 | Save

My Internet Connection is: 6rd

Assign IPv6 Prefix: Not Available

Primary DNS Server:

Secondary DNS Server:

6rd Manual Configuration

Enable Hub and Spoke Mode: Enabled

6rd Configuration: 6rd DHCPv4 Option

6rd Manual Configuration

Enable Hub and Spoke Mode: Enabled

6rd Configuration: Manual Configuration

6rd IPv6 Prefix: /

WAN IPv4 Address: 172.17.6.55 /

6rd Border Relay IPv4 Address:

LAN IPv6 Address Settings

LAN IPv6 Address: Not Available

LAN IPv6 Link-Local Address: FE80::76DA:DAFF:FED9:1057

[Advanced Settings...](#)

6rd (Continued)

Advanced Settings - Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: Enable or disable the Automatic IPv6 Address Assignment feature.

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+Stateless DHCP

Router Advertisement Lifetime: 30 minutes

Autoconfiguration Type: Select **SLAAC+RDNSS**, **SLAAC+Stateless DHCP**, or **Stateful DHCPv6**.

If you selected **SLAAC+RDNSS** or **SLAAC+Stateless DHCP** as the Autoconfiguration Type:

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: SLAAC+RDNSS

Router Advertisement Lifetime: 30 minutes

Router Advertisement Lifetime: Enter the router advertisement lifetime (in minutes).

If you selected **Stateful DHCPv6** as the Autoconfiguration Type:

IPv6 Address Range (Start): Enter the starting IPv6 address for the DHCP server's IPv6 assignment.

IPv6 Address Range (End): Enter the ending IPv6 address for the DHCP server's IPv6 assignment.

IPv6 Address Lifetime: Enter the IPv6 address lifetime (in minutes).

Address Autoconfiguration Settings

Enable Automatic IPv6 Address Assignment: ☒ Enabled

Autoconfiguration Type: Stateful DHCPv6

IPv6 Address Range (Start): ::::: 00

IPv6 Address Range (End): ::::: 00

IPv6 Address Lifetime: 10080 minutes

Click **Save** when you are done.

Local Connectivity Only

Local Connectivity Only allows you to set up an IPv6 connection that will not connect to the Internet.

Advanced Settings - IPv6 ULA Settings

Enable ULA: Click here to enable Unique Local IPv6 Unicast Addresses settings.

Use Default ULA Prefix: Enable this option to use the default ULA prefix.

If you selected **Enable ULA** and disabled **Default ULA Prefix**:

ULA Prefix: Enter your own ULA prefix.

Current IPv6 ULA Settings

Current ULA Prefix: Displays the current ULA prefix.

LAN IPv6 ULA: Displays the LAN's IPv6 ULA.

Click **Save** when you are done.

The screenshot shows the D-Link DIR-X1870 IPv6 settings page. The page title is "IPv6" with a subtitle "All of your IPv6 Internet and network connection details are displayed on this page." The navigation bar includes "Home", "Settings", "Features", and "Management". The "Settings" tab is active, and the "IPv6" sub-tab is selected. The "My Internet Connection is:" dropdown is set to "Local Connectivity Only". The "IPv6 ULA SETTINGS" section shows "Enable ULA" as "Enabled" and "Use Default ULA Prefix" as "Enabled". The "Current IPv6 ULA Settings" section displays the "Current ULA Prefix" as "fd08:26b9:2481:1::/64" and the "LAN IPv6 ULA" as "fd08:26b9:2481:1:76DA:DAff:feD9:0F5B/64".

Wireless Wi-Fi

From this page you can configure your Wi-Fi settings.

Wi-Fi Mesh

Status: Indicates the status of the seamless Wi-Fi mesh system.

Smart Connect

Status: Indicates the status of Smart Connect. This will be enabled by default if Wi-Fi Mesh is enabled.

Wireless

Wi-Fi Name (SSID): Enter a name for your Wi-Fi network.

Password: Create a password for your Wi-Fi network. Wireless clients will need to enter this password to successfully connect to the network.

Advanced Settings - Wireless

Security Mode: Choose None, WPA2/WPA3-Personal or WPA/WPA2.

Transmission Power: Select the desired wireless transmission power.

Wi-Fi Protected Setup

The easiest way to connect your wireless devices to your DIR-X1870 is with Wi-Fi Protected Setup (WPS).

The screenshot shows the D-Link DIR-X1870 Web UI. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' tab is selected. The main heading is 'Wireless'. Below the heading is a sub-heading 'Wireless' and a note: 'Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.' The page is divided into sections: 'Wi-Fi Mesh' with a 'Status' toggle set to 'Enabled'; 'Smart Connect' with a 'Status' toggle set to 'Enabled'; 'Wireless' with 'Wi-Fi Name (SSID)' set to 'dlink-D37D' and 'Password' set to 'ybyj74344'; and 'Wi-Fi Protected Setup' with 'WPS-PBC Status' set to 'Enabled'. There are 'Guest Zone' and 'Save' buttons at the top right of the settings area.

Wi-Fi (Continued)

WPS-PBC Status: Enable or disable WPS Push Button Configuration (PBC) functionality. Enabling this feature allows wireless clients to connect to the Wi-Fi through an encrypted connection by using the WPS button.

Click **Save** when you are done.

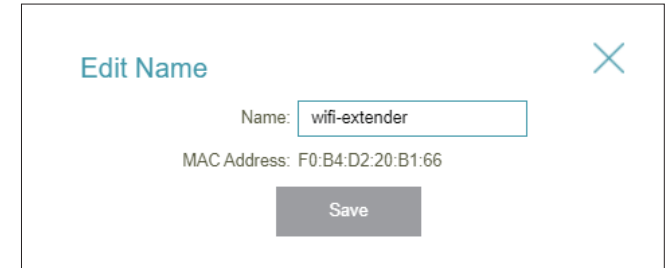
Wi-Fi Protected Setup

WPS-PBC Status ☒ Enabled

Guest Zone

The **Guest Zone** feature will allow you to create a temporary wireless network that can be used by guests to access the Internet. This zone will be separate from your main Wi-Fi network.

In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link.



Edit Name

Name:

MAC Address: F0:B4:D2:20:B1:66

Save

Wi-Fi System

Status: Enable or disable the Guest Wi-Fi network.

Wi-Fi Name (SSID): Enter a name for your guest wireless network.

Password: Create a password for your guest Wi-Fi network. Wireless clients will need to enter this password to successfully connect to the network.

Network

This section will allow you to change the local network settings of the device and configure the DHCP settings. In the Settings menu on the bar on the top of the page, click **Network**. Click **Advanced Settings...** to expand the list and see all of the options.

Network Settings

LAN IP Address: Enter the IP address of the device. The default IP address is **192.168.0.1**. If you change the IP address, once you click **Save**, you will need to enter the new IP address in your browser to get back into the configuration utility.

Subnet Mask: Enter the subnet mask of the router. The default subnet mask is **255.255.255.0**.

Management Link: The default address to access the web configuration utility is **http://dlinkrouter.local/**

Here, you can replace this with a different name. If you change the management link, you will be required to browse to the new URL in order to access the web UI.

Local Domain Name: Enter the domain name (optional).

Enable DNS Relay: Disable to transfer the DNS server information from your ISP to your computers. If enabled, your computers will use the device for a DNS server.

The screenshot shows the D-Link web configuration utility for a DIR-X1870 router. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' menu is active, and the 'Network' section is selected. Below the navigation bar, there is a 'Network' header with a sub-header 'Use this section to configure the network settings for your device. You can enter a name for your device in the management link field, and use the link to access web UI in a web browser. We recommend you change the management link if there are more than one D-Link devices within the network.' Below this, there is a 'Settings->Network' breadcrumb and a 'Save' button. The 'Network Settings' section contains the following fields: 'LAN IP Address' (192.168.0.1), 'Subnet Mask' (255.255.255.0), 'Management Link' (http://dlinkrouterD37D.local/), 'Local Domain Name' (empty), and 'Enable DNS Relay' (Enabled). At the bottom right, there is a link for 'Advanced Settings...'.

Network (Continued)

DHCP Server

Status: Enable or disable the DHCP server.

DHCP IP Address Range: Enter the starting and ending IP addresses for the DHCP server's IP assignment.

Note: If you have reserved static IP addresses to client devices, make sure the IP addresses are outside of this range or you might have an IP conflict. Refer to **Connected Clients** section page **15** for how reserve IP addresses for clients.

DHCP Lease Time: Enter the length of time for the IP address lease (in minutes).

Always Broadcast: Enable this feature to broadcast your network's DHCP server to LAN/WLAN clients.

Advanced Settings

WAN Port Speed: You may set the port speed of the Internet port to **10 Mbps**, **100 Mbps**, **1000 Mbps**, or **Auto** (recommended).

UPnP: Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software, and peripherals.

IPv4 Multicast Streams: Enable to allow IPv4 multicast traffic to pass through the device from the Internet.

IPv6 Multicast Streams: Enable to allow IPv6 multicast traffic to pass through the device from the Internet.

Click **Save** when you are done.

The screenshot shows the 'DHCP Server' configuration page. It has two main sections: 'DHCP Server' and 'Advanced Settings'. In the 'DHCP Server' section, 'Status' is set to 'Enabled'. 'DHCP IP Address Range' is set to '192.168.0.100' to '192.168.0.249'. 'DHCP Lease Time' is set to '720' minutes. 'Always Broadcast' is set to 'Disabled' with a note '(compatibility for some DHCP Clients)'. The 'Advanced Settings' section includes 'WAN Port Speed' set to 'Auto', 'UPnP' set to 'Enabled', 'IPv4 Multicast Streams' set to 'Enabled', and 'IPv6 Multicast Streams' set to 'Enabled'.

D-Link Cloud

In the Settings menu on the bar at the top of the page, click **D-Link Cloud** to see your D-Link Cloud Service details. This page lists whether you are registered with D-Link Cloud Service and email address associated with the account. Use the D-Link Wi-Fi app to find out more about D-Link Cloud's features.


DIR-X1870 HW:A1 FW:1.01

Home | Settings | Features | Management



D-Link Cloud

D-Link Cloud Service enables third-party service integration for your device through the cloud. Please view your account information that is currently associated with your device's D-Link Cloud account. To find out more about D-Link Cloud's features, simply download the D-Link Wi-Fi App from the App Store or Google Play™ to your mobile device.

Settings>>D-Link Cloud

D-Link Cloud Registration

D-Link Cloud Service: Unregistered

Operation Mode

In the Settings menu on the bar at the top of the page, click **Network** to change the local network settings of the router and to configure the DHCP settings.

Click **Save** at any time to save the changes you have made on this page.

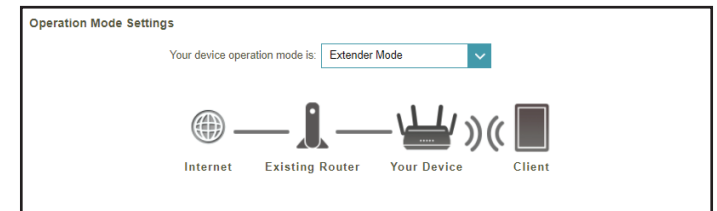
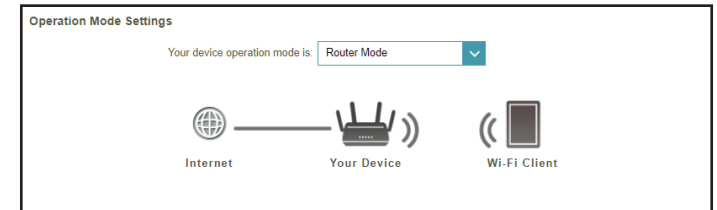
Operation Mode Settings

Router Mode

Select Router Mode to run this device as a router.

Extender Mode

Select Extender Mode to run this device as an extender



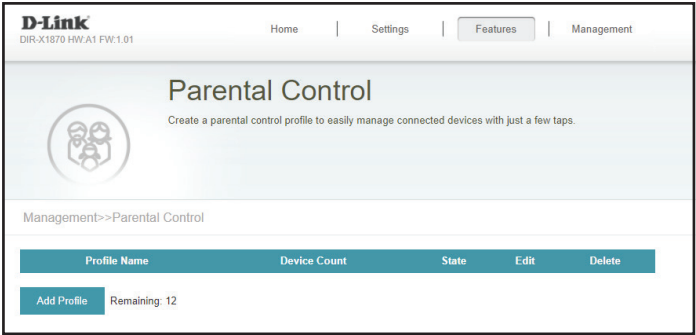
Features

Parental Control

In the Features menu on the bar at the top of the page, click **Parental Control** to configure connected clients Internet access.

Click **Save** at any time to save the changes you have made on this page.

If you wish to remove a rule, click on the trash can icon in the Delete column. If you wish to edit a rule, click on the pencil icon in the Edit column. If you wish to create a new rule, click the **Add Profile** button.

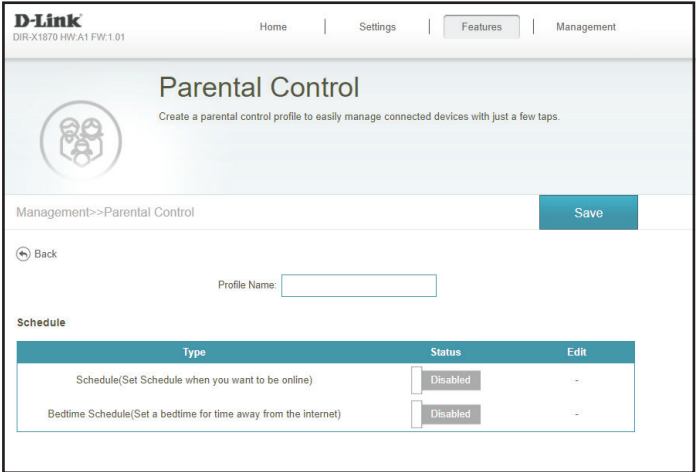


Profile Name Enter a profile name for the schedule.

Schedule

Schedule (Set Schedule when you want to be online) Set a time period for the device to be allowed Internet access.

Bedtime Schedule (Set a bedtime for time away from the internet) Set a time period for the device to be denied Internet access.



If Schedule or Bedtime Schedule Status is **Enabled**:

Click on the pencil icon in the Edit column if you wish to create a new schedule,

Each box represents one hour, with the time at the top of each column. To add a time period to the schedule, simply click on the starting hour and drag to the ending hour. You can add multiple days to the schedule and multiple periods per day.

Click **Apply** when you are done.

Schedule			
Type	Status	Edit	
Schedule(Set Schedule when you want to be online)	Enabled		
Bedtime Schedule(Set a bedtime for time away from the internet)	Enabled		

Schedule

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Mon

Tue

Wed

Thu

Fri

Sat

Sun

Schedule

Bedtime Schedule

Apply

Website Filter

If you wish to remove a Website Name/URL Keyword, click on the trash can icon in the Delete column. If you wish to list a new Website Name/Keyword to deny access to, click the **Add Rule** button.

Website Name Enter a Website name that you wish to deny access to.

URL Keyword Enter a URL Keyword name that you wish to deny access to.

Website Filter

Website Name

URL Keyword

Edit

Delete

Add Rule

Remaining: 24

Add Rule

Website Name:

URL Keyword:

Apply

Device

Click the **Add Device** button to select the devices that you wish to add to the schedule

Device

Selected Devices

Add Device

Remaining: 24

QoS Engine

This **Quality of Service (QoS) Engine** will allow you to prioritize particular clients over others, so that those clients receive higher bandwidth. For example, if one client is streaming a movie and another is downloading a non-urgent file, you might wish to assign the former device to a higher priority than the latter so that the movie streaming is not disrupted by the traffic of the other devices on the network.

In the Advanced menu on the bar on the top of the page, click **QoS Engine**.

Management Type: From the drop-down menu, select **Off** to disable or select **Manage by Device** to enable the Quality of Service (QoS) feature.

Download Speed (Mbps): Enter the maximum download speed (in Mbps) for connected clients. If QoS is enabled, clients will not be able to exceed this value.

Upload Speed (Mbps): Enter the maximum upload speed (in Mbps) for all connected clients combined. If QoS is enabled, once this threshold is reached, traffic of clients with higher priority will be processed first, while traffic of lower priority clients will wait until enough bandwidth becomes available.

D-Link
DIR-X1870 HW v1 FW 1.01

Home | Settings | **Features** | Management

QoS Engine

Connected clients can be assigned Internet access priority. Click and drag client cards into open slots.

Advanced > QoS Engine Save

Internet Speed Checkup: Check Speed

Management Type: Off

Download Speed (Mbps): 300

Upload Speed (Mbps): 300

Set the download and upload speed based on your ISP subscription plan in order to adjust the QoS engine to provide precise client priorities.

Connected Clients

08894PCWIN10
ELITEGROUP COMPU...
192.168.0.178

Drag the device cards above to the priority boxes below.

Highest	High	Medium

QoS Engine (Continued)

Under **Connected Clients**, you will see device cards representing each connected client. If some are off-screen, you can use the < and > buttons to scroll through the cards.

A maximum of **one** device can be assigned **Highest** priority.

A maximum of **two** devices can be assigned **High** priority.

A maximum of **eight** devices can be assigned **Medium** priority.

If no devices are explicitly assigned with any priority, they will all be treated with equal priority. If some devices are not assigned with any priority and others are, the unassigned devices will be treated as devices with the lowest priority.

To assign a priority level to a device, drag the device card from the Connected Clients list over an empty slot and release the mouse button. The card will remain in the slot. If you want to remove a priority assignment from a device and return it to the Connected Clients list, click the close button (x) in the top right of the device card.

Click **Save** when you are done.

