

WAVLINK



see the world

User Manual

3000Mbps Tri-Band Wi-Fi Router

Model: HALO Polar

@WavlinkOfficial

@WavlinkTechSupport

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About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide provides instructions for quick internet setup, while this guide contains details of each function and demonstrates how to configure them.

When using this guide, please notice that features of the router may vary slightly depending on the model and software version you have, and on your location, language, and internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide the following conventions are used :

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	The content and text that needs to be emphasized on the web page is the theme color #1D428A , including menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, More > Network > Mode Selection means the Mode Selection function page is under the Network menu that is located in the More tab.
Note:	Do not ignore this type of comment, it is to remind you to better use the device, to avoid the operation of the error that will cause the function to be invalid.
Tips:	Indicates important information that helps you make better use of your device.

More Info

The latest software, management app and utility are available from the Download Center at <https://docs.wavlink.xyz/Firmware/> .

A quick installation guide can be found in this guide.

Specifications can be found on the product page at <https://docs.wavlink.xyz/>.

If you encounter any issues, please don't hesitate to email contact@wavlink.com to provide feedbacks or contact online customer service, thank you !

Speed/Coverage Disclaimer

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully.

Keep this Quick Start Guide for future reference.

Keep this equipment away from humidity.

If any of the following situation arises, get the equipment checked by a service technician:

☐ The equipment has been exposed to moisture.

☐ The equipment has been dropped and damaged.

☐ The equipment has an obvious sign of breakage.

☐ The equipment has not been working well or you cannot get it work according to Quick start Guide.

Copyright Statement

No part of this publication may be reproduced in any form by any means without the prior written permission.

Other trademarks or brand names mentioned herein are trademarks or registered trademarks of their respective companies.

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

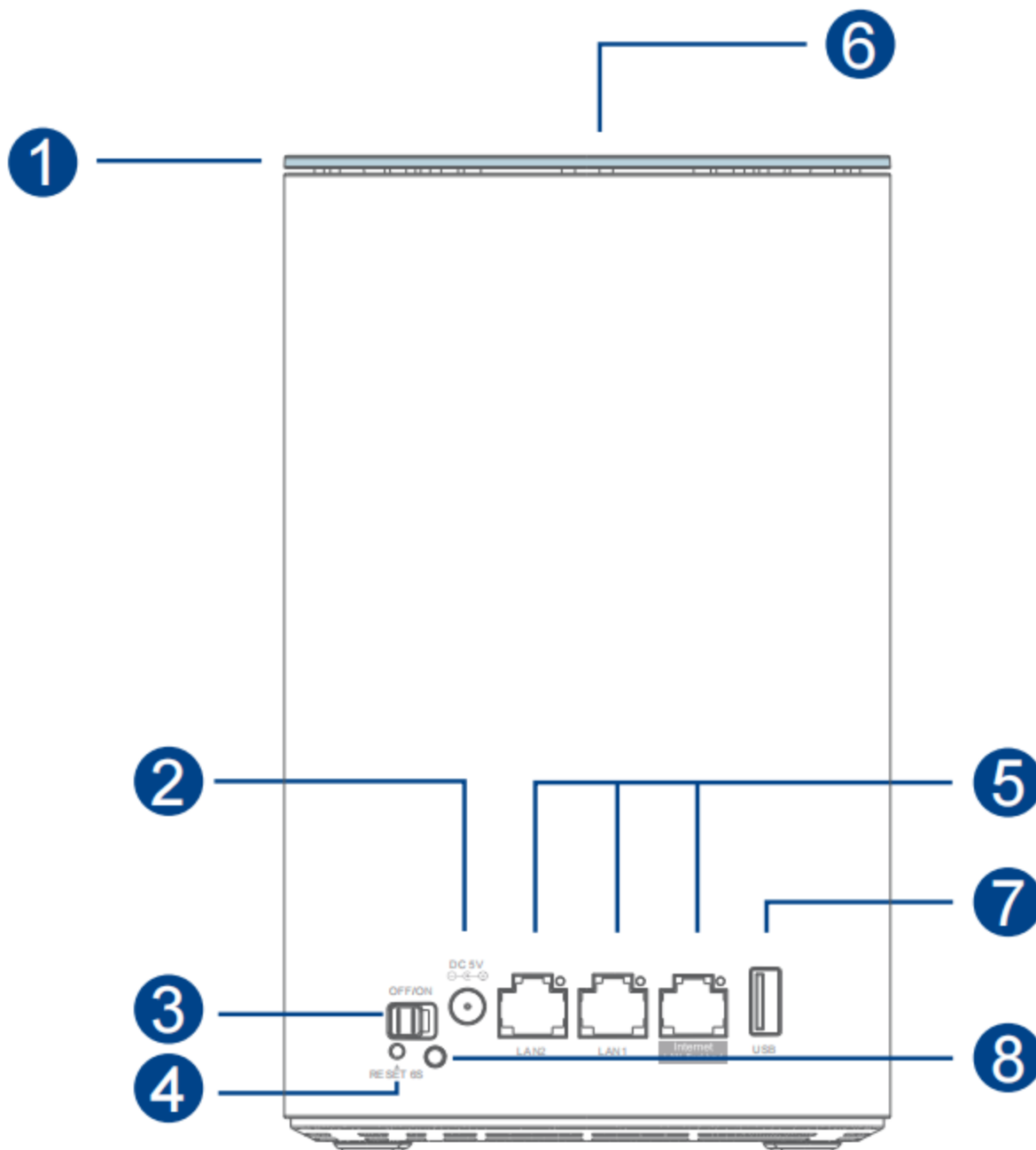


Chapter 1 Overview

This chapter contains the following sections :

- [Hardware Overview](#)
- [Basic Info](#)
- [LED Indicator](#)

Hardware Overview



- ① LED Indicator
- ② DC IN
- ③ On/Off Switch
- ④ Reset
- ⑤ Gigabit Ethernet Port
- ⑥ TouchLink Pad
- ⑦ USB 2.0 port

⑧ Pair Button

Note: Pair Button: Press to connect WPS devices.

Reset Button: Press and hold for 6 seconds to reset the mesh device.

Basic Info

2.4G SSID:WAVLINK-2.4G_XXXX

5G SSID:WAVLINK-5G_1_XXXX

5G SSID:WAVLINK-5G_2_XXXX

Default IP: http://192.168.20.1

Login:http://wavlogin.link

LED Indicator

Mode	LED	Description
Router/AP/Repeater Mode	Solid purple	The device is being activated
Router/AP/Repeater Mode	Solid blue	The Internet is connected
Router/AP/Repeater Mode	Slow blue flash	TouchLink is in progress
Router/AP/Repeater Mode	Slow red flash	No access to the Internet
Router/AP/Repeater Mode	Fast red flash	The device is disconnected

Chapter 2 Initial Setup Guide

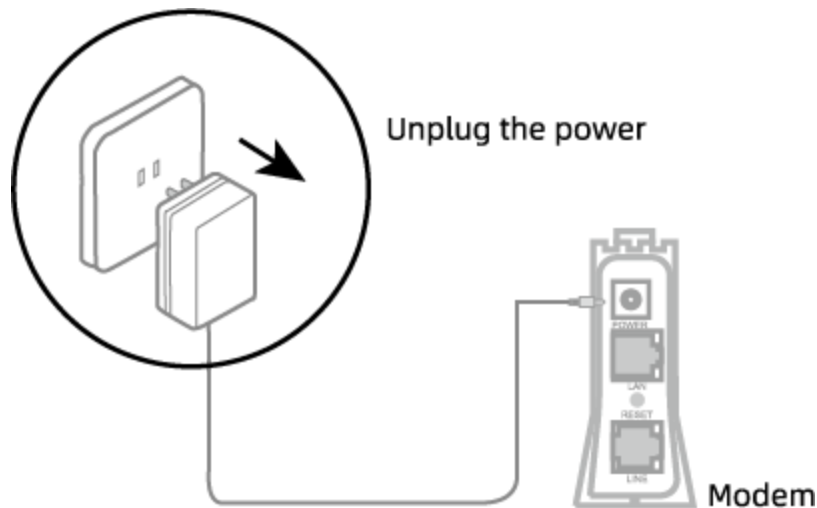
This chapter contains the following sections :

- [Prepare the Modem](#)
- [Install Your Router](#)
- [Configure the Router via Web Browser](#)

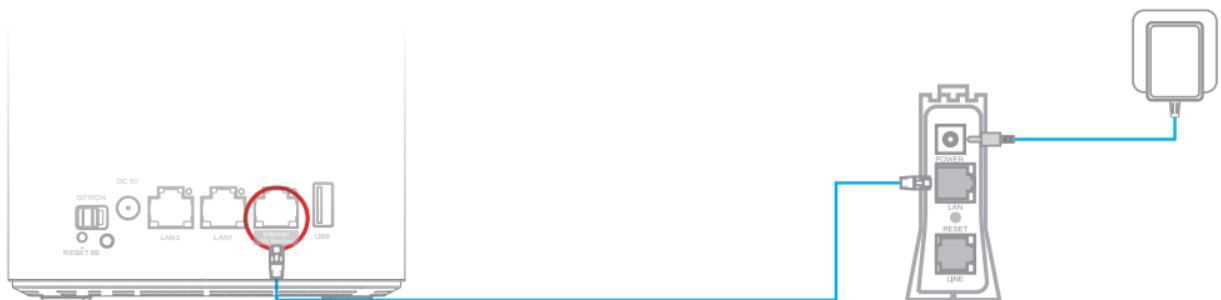
Prepare the Modem

1. Unplug the power adapter from your DSL modem. If the modem has backup battery, please remove it.

Note : If using a DSL Internet connection, obtain the login credentials(username/password) from your Internet Service Provider (ISP) to properly configure your wireless router.

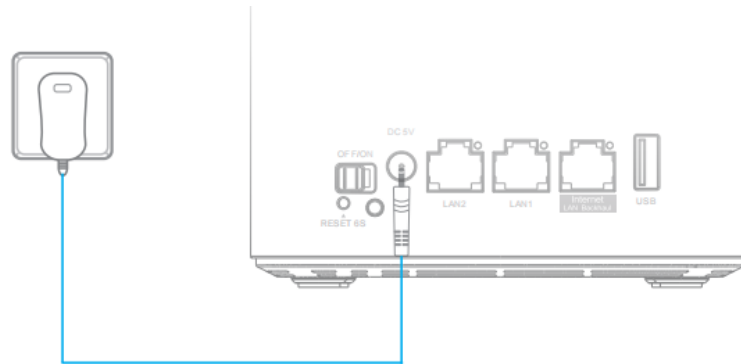


2. Use the provided Ethernet cable to connect the modem to the WAN port of the router.
3. Plug the modem into a power outlet and turn it on.
4. Check the indicator lights on the modem to confirm a stable internet connection.



Install Your Router

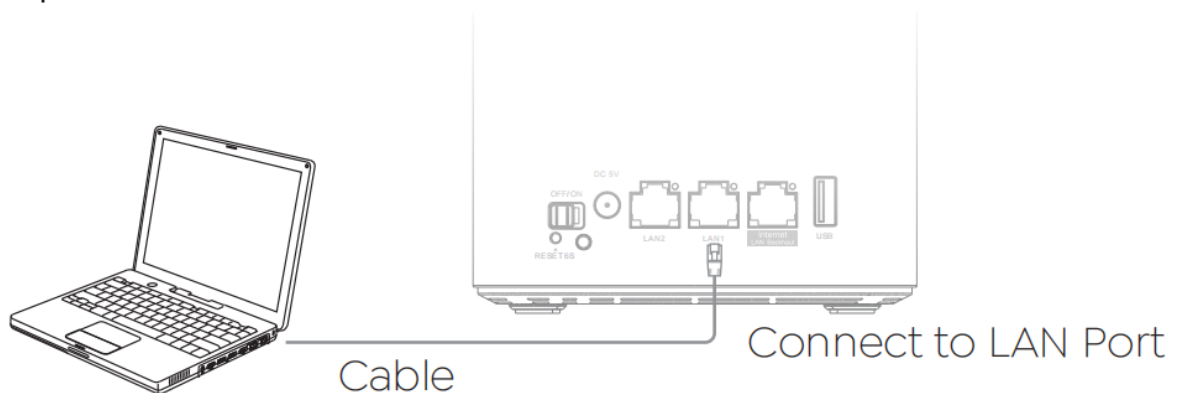
1. Insert the power adapter into the router's DC IN port and press the power switch (if applicable; some models lack a physical switch).



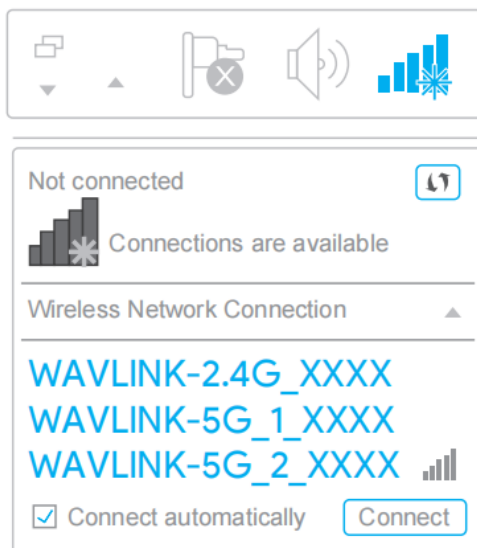
2. Wait for about 2-3 minutes, then the router is ready.

Configure the Router via Web Browser

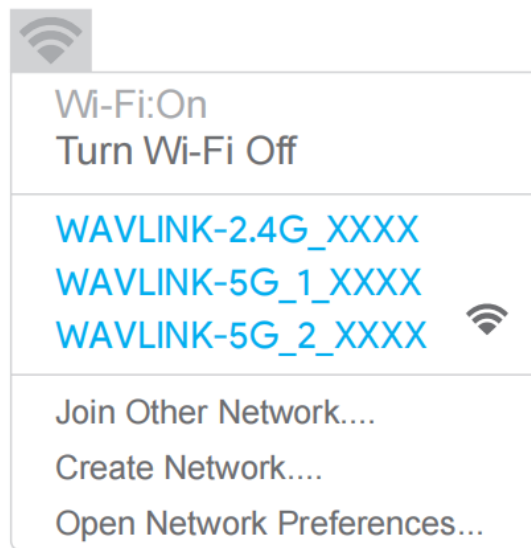
1. **Wired Connection:** Use another Ethernet cable to connect your computer to one of the LAN ports on the router.



2. **Wireless Connection:** On your laptop or smartphone, connect to the default SSID printed on the router: **WAVLINK-2.4G_XXXX**, **WAVLINK-5G_1_XXXX** or **WAVLINK-5G_2_XXXX**.



For Windows Users



For Mac Users

3. Open a web browser(via wired or wireless connection) and enter <http://wavlogin.link> in the address bar. You will automatically enter the Wavlink router initial setup page. If not, manually enter **192.168.20.1** in the browser's address bar and follow the instructions.



4. It is **Router Mode** by default. Select the corresponding **WAN Type**.

Wan Type

Wan Type

Obtain DHCP automatically



Custom MTU



MAC Clone



If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

Next

① If you choose **DHCP**, you will need to decide whether to enable the MAC clone. Some ISPs register the MAC address of your computer when you firstly access the Internet through their cable modem, we need to clone the MAC address of your computer to the router. The **Custom MTU(Maximum Transmission Unit)** is the largest size of a data packet that can be transmitted over the network. If your ISP requires you to adjust the MTU size, enable this option. Otherwise, we recommend you to keep it disabled for optimal network performance.

Wan Type

Wan Type

Obtain DHCP automatically



Custom MTU



MAC Clone



If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

Next

② If you choose **PPPoE**, enter the **Name** and **Password** provided by your ISP. PPPoE is usually designed for such as DSL or fiber optics.

Wan Type

Wan Type

PPPOE



Name

Password

Custom MTU



MAC Clone



If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

Next

③ If you choose **Static IP**, enter a specified IP parameters including IP Address, Subnet Mask, Gateway, DNS1 and DNS2 provided by your ISP.

Wan Type

Wan Type

Static IP



IP Address

Subnet Mask

Gateway

DNS1

DNS2

Custom MTU

☐

MAC Clone

☐

If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

Next

5. Click **Next**.
6. Choose **Country/Region** and **Time Zone**, and set **Wireless SSID** and **Wireless Password**.

Country code/Time zone

Country/Region

Global



Time Zone

(UTC-00:00) Dublin, Edinburgh, Lisbon, London



Wireless

SSID

WAVLINK_2.4G_03DE

Password

Between 8~63 characters



Device management password

Change
Password

Not less than 6 characters



Save

7. Click **Save** and wait the settings to be successfully applied. Then use the new Wi-Fi password to reconnect to the network.

Country code/Time zone

Country/Region

Global



Time



Wireless

SSID

Password

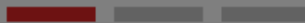


Device management password

Change

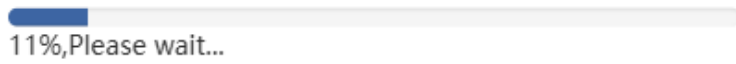
Password

.....



Save

Save



Chapter 3 Network Management

This chapter contains the following sections :

- [Network Settings](#)
- [LAN Settings](#)
- [Setting Static IP Binding](#)
- [Setting IPv6](#)
- [VLAN](#)
- [Setting Dynamic DNS](#)
- [Mode Selection](#)
- [Web Block](#)

Network Settings

The way of network access can be changed as your requirement through configuring the network setting.

Connection Configuration

1. Access **Network** settings or **Advanced>Network Settings**.
2. Select your network connection way from the **WAN Type** list.

1) DHCP(Dynamic Host Configuration Protocol)

- It assigns network information including IP, Subnet Mask, default Gateway and others for the computer, designed for small network environments such as a home or a small office, managing and assigning IP without manual configuration.
- If the ISP(Internet Service Provider) has provided Auto Assign Feature for you, select DHCP from the WAN Type list.

Networking Settings

Wan Type

Obtain DHCP automatically



2) PPPoE(Point-to-Point Protocol over Ethernet)

- It functions as a secure connection constructor, including verifying user identity, assigning IP, and others. It is designed for broadband access methods such as ADSL, fiber optics and others to provide a secure network connection.
- If the ISP has provided a **Username** and **Password** for you, enter them after selecting PPPoE from **WAN Type** list, then select **CONNECT**.

Networking Settings

Wan Type	PPPOE
Name	
Password	

3) Static IP

- It assigns fixed IP address for the computer automatically. It is designed for network connections, servers, remote access, etc., which require long-term stability to ensure the stability of network connections.
- If the ISP has provided a specified IP parameters including IP address, Subnet Mask, Gateway, DNS1 and DNS2, select Static IP from the list and enter the information provided by the ISP.

Networking Settings

Wan Type	Static IP
IP Address	
Subnet Mask	
Gateway	
DNS1	
DNS2	

4) PPPoE Dual Access

- Using dual PPPoE broadband lines, PPPoE Dual Access achieves balanced distribution via the technology of Load Balancing. Designed for improving the network

bandwidth and stability, so it is for the occasion that requires large data transmission.

- Enter the account and password provided by the ISP in **Username** and **Password**. Then select **DHCP** or **Static IP** from **Second WAN** list, one note is that **IP** and **Subnet Mask** are required for **Static IP**. Click **CONNECT**

Networking Settings

Wan Type	PPPOE Dual Access
Name	
Password	
Second WAN:	
Wan Type	Obtain DHCP automatically

5) PPTP Dual Access

- PPTP Dual Access refers to the dual-network accessing method of using two PPTP VPNs. With it, users can configure two PPTP VPN to simultaneously access the Internet, enhancing the reliability of bandwidth and network.
- Enter **Username**, **Password**, **Server URL**, then select **DHCP** or **Static IP**, one note is that **IP** and **Subnet Mask** are required for selecting **Static IP**.

Networking Settings

Wan Type	PPTP Dual Access
Name	
Password	
Server URL	
Second WAN:	
Wan Type	Obtain DHCP automatically

6) L2TP Dual Access

- L2TP Dual Access uses two L2TP VPN connections to access the Internet. it allows users to use two VPNs to access the Internet, enhancing the reliability of bandwidth and network.
- Enter **Username**, **Password** and **Server URL**, then select **DHCP** or **Static IP**, one note is that **IP** and **Subnet Mask** are required for **Static IP**.

Networking Settings

Wan Type	L2TP Dual Access ▼
Name	
Password	
Server URL	
Second WAN:	
Wan Type	Obtain DHCP automatically ▼

Advanced Configuration

In **Advanced**, open and configure **Custom MTU**, **MAC Clone**, **Custom DNS** and others as your requirements.

Advanced▼

- | | |
|------------|-------------|
| Custom MTU | <div></div> |
| MAC Clone | <div></div> |
| Custom DNS | <div></div> |

Save

- **Custom MTU(Maximum Transmission Unit)**

- The Ethernet MTU(MaximumTransmission Unit) is the largest size of a data packet that can be transmitted over the network. If your ISP requires you to adjust the MTU size, enable this option. Otherwise, we recommend you to keep it disabled for optimal network performance.
- **MAC Clone**
 - The MAC clone allows you to copy the MAC address from the computer to the WAN interface of the router. When an ISP restricts internet access to a single MAC address, by cloning the MAC address of the device, the router will masquerade as authorised devices, ensuring an uninterrupted internet connection.
- **Custom DNS**
 - The custom DNS allows you to configure optimal DNS server for the network manually, instead of using the default DNS provided by the ISP.

LAN Settings

DHCP server automatically assigns IP for the devices in the LAN. If it is required, you can change its setting.

- 1 . Click **Advanced**>**LAN Settings**.
- 2 . Click to enable **DHCP**.

LAN Settings

DHCP



IP Address

192.168.20.1

Subnet Mask

255.255.255.0

Start IP

192.168.20.100

End IP

192.168.20.249

Save

- **IP Address:** The IP address from which the router connects to the LAN. This can be used to log in to the router's network management page.
- **Subnet Mask:** The subnet mask that the router connects to the LAN.
- **Set IP Address Pool:** When DHCP is enabled, the router automatically assigns IP addresses to devices in the LAN from the address pool. If you need to change the address pool range, modify the Start Address and End Address.

3 . Click **SAVE** to finish the configuration.

Setting Static IP Binding

It allows you to link the specific IP to the MAC address of customer devices. Using it, you can assign a fixed IP for the specific device so that the device can automatically obtain the same IP everytime it connects to the network.

Static IP

IP Address	MAC Address	Operate
192.168.20.230	E8:84:A5:D1:D0:E4	Bind Cancel

+

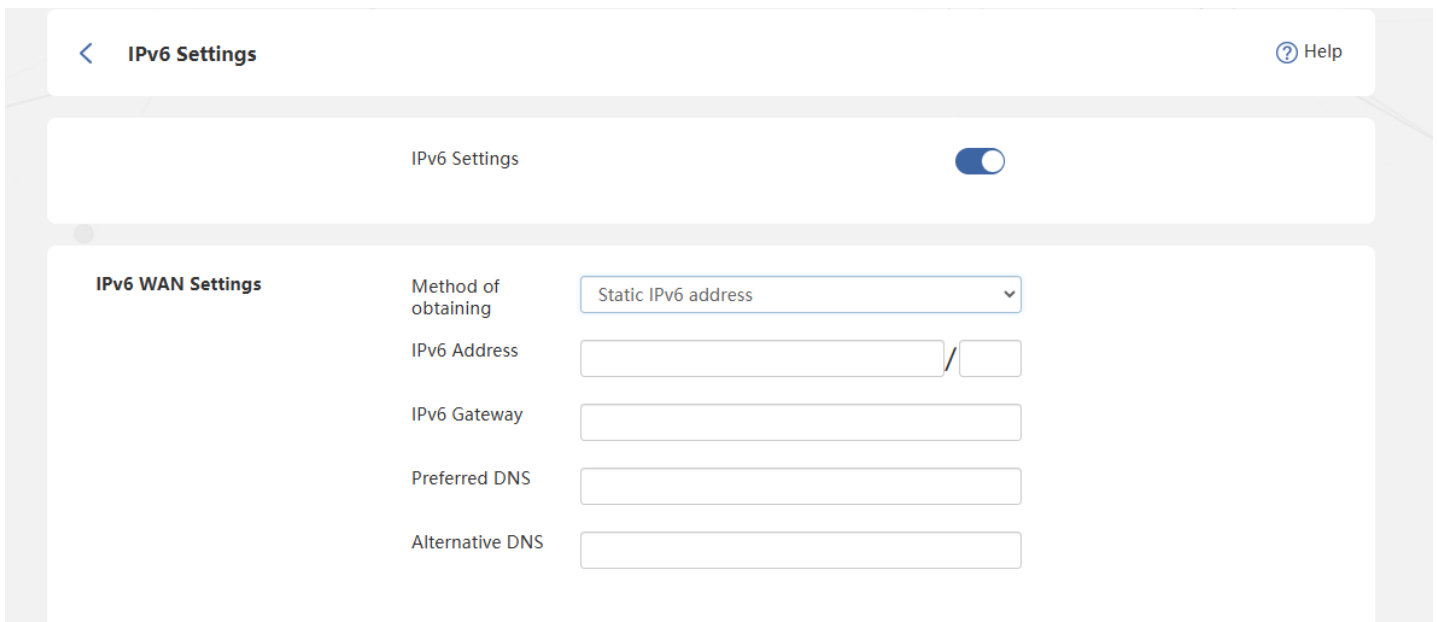
- 1 . Click **Advanced>Static IP**.
- 2 . Click **+** in the bottom right corner to add a binding rule.
- 3 . Input the **IP** and **MAC**, then click **BIND**.

Setting IPv6

The IPv6 is the next generation Internet protocol, has more space for address, more advanced functions and enhanced security. It aims to solve more issues on interconnectio devices and provide better network performance and security.

IPv6 WAN Settings	Method of obtaining
	Automatic acquisition Automatic acquisition ipv4+ipv6 pppoe Static IPv6 address

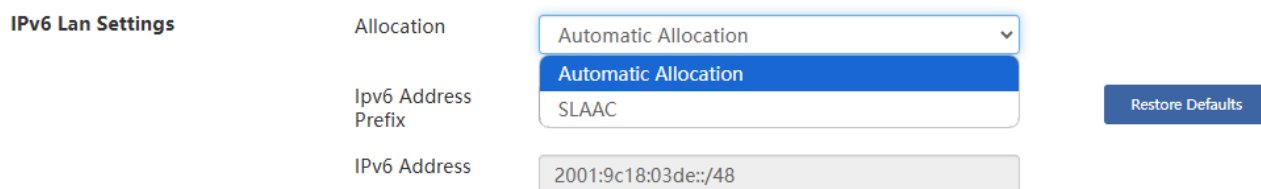
- 1 . Click **Advanced>IPv6 Settings**.
- 2 . Click once to enable **IPv6 Settings**.
- 3 . **IPv6 WAN Settings**.



3.1 Select corresponding **Method Of Obtaining** from the list, then input corresponding information:

- **Automatic Acquisition:** The router automatically obtains the parameters such as IPv6 address. No manual requirements.
- **IPv4+IPv6 PPPoE:** When IPv4 Internet access is also PPPoE, you can select IPv4+IPv6 PPPoE. After enabled, IPv6 will use the IPv4 account and password to dial the number, and you do not need to manually enter the IPv6 account and password. Please note that this requires operator's support.
- **Static IPv6:** Manually input **IPv6(address)**, **IPv6 Gateway**, **Preferred DNS** and **Alternative DNS**.

4 . IPv6 LAN Settings.



- Selecting appropriate address assignment method from the **Allocation** list:
 - **Automatic Allocation:** It will automatically assign IPv6 addresses to devices on the LAN network.
 - **SLAAC:** In the SLAAC, The terminals on the LAN will automatically create IPv6 addresses according to the router.

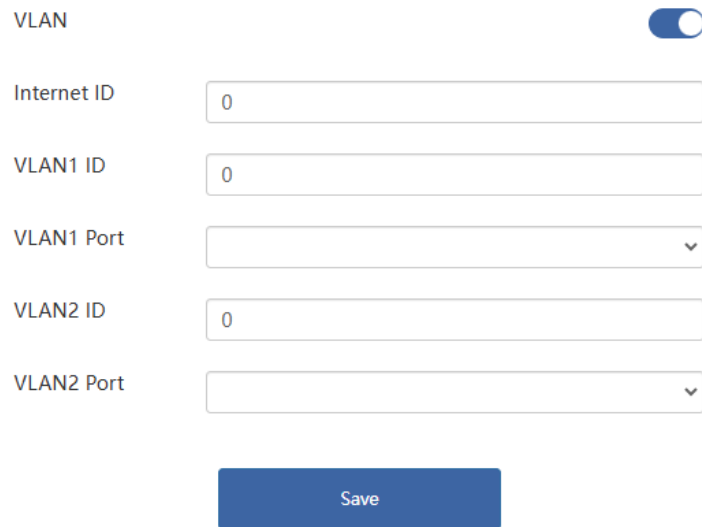
5 . Click **SAVE** to finish the configuration.

VLAN

VLAN (Virtual Local Area Network) is a technology that logically divides LAN members. By default, VLANs are isolated from each other, but they can communicate through routing.

Configuring VLAN

VLAN



VLAN ☒

Internet ID

VLAN1 ID

VLAN1 Port

VLAN2 ID

VLAN2 Port

- 1 . Enter **Advanced**>**VLAN**.
 - 2 . Click once to enable **VLAN**.
 - 3 . Enter **VLAN ID** and select **VLAN Port**.
 - 4 . Click **SAVE** to finish the configuration.
- **VLAN1 ID and VLAN1 LAN Port**: The VLAN1 ID indicates the VLAN1, and the VLAN1 LAN Port indicates the LAN port associated with VLAN1.
 - **VLAN2 ID and VLAN2 LAN Port**: The VLAN2 ID indicates the VLAN2, and the VLAN2 LAN Port indicates the LAN port associated with VLAN2.

Setting Dynamic DNS

Dynamic DNS(DDNS, Dynamic Domain Name System) is a function of mapping dynamic IP addresses to fixed domain names. After enabling it, the router bind dynamic WAN IP with the fixed domain so that you can connect to the router using the domain remotely.

In order to use this service, you need to register for the DDNS service with your service provider.

Dynamic DNS

Dynamic DNS

Connection Status

Disconnected

Service Provider

Name

Password

Host Name

Such as test.no-ip.com

Save

- 1 . Enter **Advanced>Dynamic DNS**.
- 2 . Click once to enable **Dynamic DNS**.
- 3 . Select **oray.com** or **NO-IP** from the **Service Provider** list.
- 4 . Input corresponding **Username**, **Password** and **Host Name** from your DNS registration information.
- 5 . Click **SAVE** to finish configuration.

Note: Different dynamic DNS service provider may provide various parameters, and the name or indication may vary. Therefore, you should look up the corresponding explanation so that the correct parameters are inputted.

Mode Selection

Configure router's working mode according to your actual requirement.

- 1 . Enter **Advanced>Mode Selection**.
- 2 . Select appropriate working mode from the **Mode Selection** list: **Router Mode**, **LAN Bridge(AP Mode)** or **Repeater Mode**.

Router Mode

In routing mode, the router provides Wi-Fi Internet access point for the client by connecting to the Internet signal from the Internet Service Provider. Also provides wired internet by connecting to router's LAN via the cable.

Mode Selection

Mode selection

Router Mode

Wan Type

Obtain DHCP automatically

If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

MAC Clone

☐

Save

WAN Type:

① **DHCP:** If the **ISP(Internet Service Provider)** has provided Auto Assign Feature for you, select DHCP from the WAN Type list.

② **PPPoE:** Use this when your Internet Service Provider (ISP) has given you a **Username** and **Password**.

③ **Static IP:** Use this when your Internet Service Provider(ISP) has given a set of IP parameter including **IP Address**, **Subnet Mask**, **Gateway** and **DNS**.

Note: If you are unsure of the **WAN Type**, connect the network cable from your main router to the device's WAN port. Once you access this settings page, the device will automatically detect the appropriate WAN Type.

LAN Bridge(AP Mode)

In the AP mode of extending the existing network, you should confirm your device's WAN port has connected to the Internet using the Ethernet cable. One note is that some functions are not available in this mode.

Mode Selection

Mode selection

AP Mode

Smart DHCP
Services



Save

- **Smart DHCP Service:** If it is enabled, the router will configure IP service without connecting to the upper router. Please disable it if it is not required.

Repeater Mode

In the repeater mode, to extend the Wi-Fi coverage, this router works as a wireless repeater of the upper router. One note is that some functions are not available in this mode.

Mode Selection

Mode selection

Repeater Mode

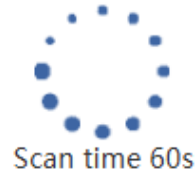
Next

- 1) Click **NEXT** to rescan the Wi-Fi signal.

Mode Selection

☒ Select WI-FI

☐ Manual Input



Back

Rescan

Next

- 2) Select the wireless signal to be relayed, click **NEXT**.
- 3) If the network to be added is not found, click **Rescan** to rediscover the network. Or select **Manual Input** to set it up.

Mode Selection

☒ Select WI-FI

☐ Manual Input

Please select the wireless signal to be relayed

5G/2.4G

	guest5	☐
	work5	☐
	WAVLINK-N_2930	☐
	work5	☐
	guest5	☐
	WAVLINK_5G_2_7742	☐
	ASUS_E0	☐

Back

Rescan

Next

4) Enter the password of the superior wireless network and the wireless network information of this device. Click **Save** to complete the setup.

Mode Selection

Superior wireless network information

Superior
Network Name

WAVLINK_5G_2_7742

Wireless network information of this device

Connection
Type

Bridge

2.4G Wi-Fi
Name

WAVLINK_5G_2_7742_EXT2.4G

Encryption
Mode

WPA2-PSK(Recommend)

2.4G Wi-Fi
password

Between 8~63 characters



5.2G Wi-Fi
Name

WAVLINK_5G_2_7742_EXT5.2G

Encryption
Mode

WPA2-PSK(Recommend)

5.2G Wi-Fi
password

Between 8~63 characters



5.8G Wi-Fi
Name

WAVLINK_5G_2_7742_EXT5.8G

Encryption
Mode

WPA2-PSK(Recommend)

5.8G Wi-Fi
password

Between 8~63 characters



Back

Save

Web Block

You can block any device connected to this router from accessing specific websites by entering keywords or the full domain name.

1. Click + icon in **Web Block**.

Web Block

Device Name	MAC Address	Web Block
Other	B0:7B:25:0D:0E:7E	+

2. After entering the keywords or the full domain name, click **SAVE** to take effect.

Web Block



Please enter the keywords or domain names you want to restrict below:

Example:

baidu, google, youtube

Save

Cancel

Restricted keywords or domain names:

Delete

Chapter 4 Managing Wireless Network

This chapter contains the following sections:

- [Wireless](#)
- [Guest Wi-Fi](#)
- [Parental Wi-Fi](#)

Wireless

Configure the SSID, encryption method, password, and other wireless parameters for 2.4G, 5.2G and 5.8G networks.

1. Navigate to **Wireless**.

Configuring Wireless Network

1) **Triple Frequency Selection** Enabling Triple Frequency Selection combines the 2.4GHz, 5.2GHz and 5.8GHz Wi-Fi bands into the same **Wi-Fi Name(SSID)**, when the terminal connect to the Wi-Fi, the router will automatically select network band for the terminal according to the internet status. Disabling it to configure the 2.4G, 5.2G and 5.8G band separately. 2) **Change Wi-Fi Name and Password** Create a new Wi-Fi name in **SSID** and customize Wi-Fi password in **Password**.

2.4G, 5.2G, and 5.8G WLAN three in one, the router automatically selects the faster Wi-Fi frequency band for you, turn off this switch, you can set it separately.



Wi-Fi

Switch



Hide SSID



SSID

WAVLINK_2.4G_03DE

Encryption
Mode

WPA3/WPA2-MIX



Password

••••••••



Advanced >

Save

Advanced Settings

1) Channel

Changing the wireless network channel as you need. If you are unsure which one to select, it is recommended to choose **Automatic**. The device will automatically select the optimal channel based on the surrounding environment for the best experience.

2) Bandwidth

The bandwidth indicates the frequency range of the wireless data transmission from the router.

3) DFS

It block interference from radar systems by automatically selecting and switching to the workable channel that has not used by the radar system. It is recommended to turn on this switch to ensure compliance with local regulations and to maintain a stable and uninterrupted wireless network.

Advanced

2.4G WiFi Settings

Channel

Automatic



Bandwidth

20/40MHz



5.2G WiFi Settings

Channel

Automatic



Bandwidth

80MHz



DFS



5.8G WiFi Settings

Channel

Automatic



Bandwidth

80MHz



DFS



Guest Wi-Fi

The guest Wi-Fi provides guests(visitor, client or temporary device) with a independent and secure network environment isolated from the main network. Network administrators offer convenient access while protecting the security and resources of the primary network.

Guest Wi-Fi

SSID

WAVLINK-Guest_Touch

Guest Wi-Fi Mode

TouchLink Mode

Device Isolation

Turn On

Duration

120s

Use Time

0

Device Name	Status	delete
-------------	--------	--------

Save

1. Navigate to **Advanced** > **Guest Wi-Fi**.
2. Click to enable **Guest Wi-Fi**.
3. Set the **SSID**.
4. In the **Guest Wi-Fi Mode**, set the encryption method: Encryption Mode, No Encryption Mode, and TouchLink Mode. When you select TouchLink Mode, the sensing pad at the top of the device will blink blue upon touch, indicating that TouchLink is active; you can then connect to “WAVLINK-Guest_Touch” without a password.
5. Set the **Device Isolation**. Once on, this feature will isolate devices connected to the same LAN from each other, enhancing network security and privacy protection.
6. Click **SAVE** to complete the settings.

Parental Wi-Fi

Parental Wi-Fi allows you to set up a wireless network with separate SSID(Wi-Fi name) and separate password for family members. You can configure its SSID, encryption method, and rules as you need.

Parent Control

Wi-Fi

SSID

Parental-Wi-Fi

Encryption Mode

WPA3/WPA2-MIX

Password

Please enter your password

Ban Start Time

Ban End Time

Ban Time Period

00 : 00 ~ 00 : 00

Internet Ban Date

Sun Mon Tue Wed Thu Fri Sat

Save

1. Navigate to **Advanced > Parent Control**.
2. Click to enable **Parent Control**.
3. Set the **SSID, Encryption Method, and Password**.
4. Set the Ban Time Period and Internet Ban Date in to control your child's internet access time.
5. Click **SAVE** to complete the settings.

Chapter 5 NAT Forwarding

This chapter contains the following sections:

- [UPnP Settings](#)
- [Port Forwarding](#)
- [DMZ Management](#)
- [Hardware NAT Settings](#)

UPnP Settings

UPnP (Universal Plug and Play) is a network protocol designed to make connecting devices simpler and more automated. Using the UPnP protocol, devices can automatically discover each other on the network and establish communication connections without requiring manual configuration or setup.

UPnP allows devices to share resources such as files, printers, and other multimedia content. The UPnP protocol is widely used in home networks and office environments to facilitate communication and interaction between devices.

1. Access **Advanced>UPnP**.
2. Set **ON/OFF UPnP**.
3. Click **SAVE** to finish configuration.

UPnP

UPnP



Save

NOTE

The computer operation system and application program you used need to support the UPnP function.

Port Forwarding

Port forwarding is a network technology. It maps a specific port on a public network to a specified server on the local network, allowing Internet users to access the local network server's service by accessing the port.

Port Forwarding

Server IP	Extenal Port	Internal Port	Protocol	Operate
			TCP ▼	Save Cancel

1. Access **Advanced>Port Forwarding**.
2. Click **+**.
3. Enter the parameters of **Server IP**, **External Port**, and **Internal Port**.
4. Select **Communication Protocol**.
5. Click **Bind** to finish the configuration.

DMZ Management

Enable DMZ (Demilitarized Zone) management function, only enter one IP address that connects this device, then this device can be DMZ host. So this device can be accessed via external network and open all ports to improve fluency of corresponding communication. Please note security software and firewall on this host need to be closed temporarily when you use this function. So please consider using this function carefully.

DMZ Management

DMZ Open

DMZ Host IP

Save

NOTE

DMZ is suitable for use when you are not sure of the ports that need to be opened. Computers will be completely exposed to the WAN after opening DMZ Host, which may bring security risks to computers. So please do not open it easily. Close it in time if you do not need to use DMZ Host.

1. Click **Advanced** > **Static IP** to set a fixed IP for the host configured as DMZ device.
2. Access **Advanced>DMZ Management**.
3. Open **DMZ Host**.
4. Enter the **IP address** of the corresponding computer (192.168.20.215) in **DMZ Host IP**.
5. Click **SAVE** to finish the configuration.

Hardware NAT Settings

Data is forwarded by hardware instead of being processed by the CPU after enabling Hardware NAT, which can improve the device's performance. Turn off NAT if you need to calculate throughput rate, usage statistics of CPU and RAM.

Hardware NAT Settings

Hardware NAT
Settings

☒

Save

1. Access **Advanced>Hardware NAT Settings**.
2. Open **Hardware NAT Settings**.
3. Click **SAVE** to finish the configuration.

Chapter 6 Network Security

This chapter contains the following section:

- [Security Settings](#)

Security Settings

Security Settings

Block Ping



Block Port Scanning



Block DDoS Attacks



Save

- 1 . Access **Advanced>Security Settings**.
- 2 . Open **Block Ping**: It can prevent ping attacks and scanning and reduce the risk of network attacks on this device.
- 3 . Open **Block Port Scanning**: It can protect server ports on devices from attacks.
- 4 . Open **Block DDoS Attacks**: It enables the router to avoid the massive resource consumption caused by DDoS attacks and ensures normal services.
- 5 . Click **SAVE** to finish the configuration.

This chapter contains the following sections:

- [VPN Server Configuration](#)
- [VPN Client Configuration](#)

VPN Server and Client

VPN (Virtual Private Network) can encrypt your network connection to ensure the safe transfer of important data and avoid information stealing. Remote users (VPN clients) can safely connect VPN server.

VPN Server Configuration

Open VPN Server Configuration

OpenVPN Server is used for remote devices to establish an OpenVPN connection to access your home network. If you use VPN function, you need to enable the OpenVPN server on a router and then install and run VPN client apps on remote devices.

OpenVPN Server

OpenVPN Server	☒
Device IP	0.0.0.0
Interface Type	tun
OpenVPN Protocol	tcp
IP	10.8.0.0
Subnet Mask	255.255.255.0
OpenVPN Port	1194
Encryption Method	AES-128-GCM
Identity Verification	SHA256
Login with username and password	☐
Allow LAN Access	☒

Save

1. Access **Advanced>OpenVPN Server**.
2. Open **OpenVPN Server**.
3. Select **Interface Type** and **OpenVPN Protocol**.
4. Input the **OpenVPN Port**, which should be from **1024-65535**.
5. In **IP** and **Subnet Mask**, enter the range of IP addresses the OpenVPN server can lease to devices.
6. Select **Encryption Method** and **Identity Verification** type.
7. Click **Save**.

VPN Client Configuration

VPN client can establish VPN connection for devices in your home network to access remote a VPN server.

PPTP/L2TP VPN Client Configuration

VPN converts public networks (Internet, etc.) into private networks using encryption technology to offer greater security and privacy protection.

VPN Client

VPN Client

Internet Access Method

PPTP

Server

Server Address

Server Address

Username

Password

Connection Status

Disconnected

Save

1. Access **Advanced>VPN Client**.
2. Open **VPN Client**.
3. Select **Internet Access Method**.
4. Select server domain or server address in **Server**, then enter corresponding parameter in **Server Address**.
5. Click **SAVE** to finish the configuration.

OpenVPN Client Configuration

OpenVPN Client

OpenVPN
Client



Login with
username and
password
Username



Password

Status

Disconnected

Upload ovpn
file

Please select the OpenVPN file



Upload

Save

1. Access **Advanced>OpenVPN Client**.
2. Click to start **OpenVPN Client**.
3. If the OpenVPN Server has set a login user and password, the OpenVPN Client must also configure a login user and password. Make sure to fill in the OpenVPN Server login user and password correctly, otherwise the connection will be affected.
4. Click **File icon** to select the correct OpenVPN Server configuration file. After selecting, click **Upload**, then click Save and wait for the application to be updated.

ZeroTier Configuration

ZeroTier

ZeroTier



Connection Status

Disconnected

Network ID

8056c2e21c000001

SAVE

1. Access **Advanced>ZeroTier**.
2. Open **ZeroTier**.
3. Enter **Network ID** obtained on the Zerotier manage page.
4. Click **SAVE** to finish the configuration.

Chapter 8 USB Setting

This chapter contains the following section:

- [Storage Management](#)

Storage Management

Please plug your USB storage device into the router's USB port, then you can access the stored file locally and remotely.

Storage Management

[?](#) Help

Name	usbuser
Password	 
Save	

Description of file access methods:

Windows PC: Enter IP in the address bar of the File Explorer and press Enter, for example: \\192.168.20.1

MAC PC: Enter the connection server, and enter IP, for example: \\192.168.20.1

1. Plug the USB storage device into the router's USB port.
2. Windows PC: Input the IP address (for example: \\192.168.20.1) in the address bar of the file explorer and press Enter. MAC PC: Enter the connection server, and input IP address (for example: \\192.168.20.1).

Note: Only FAT32, and NTFS file format are supported.

3. Use the username and password you set before to access it. If you need to change your password, please click Advanced > Storage Management.

Chapter 9 Remote Control

This chapter introduces remote web access and cloud APP.

It contains the following sections:

- [Remote Control](#)

Remote Control

With this function, you can manage this router remotely via the Internet. Input **http://WAN IP: port number** for remotely accessing this device. We recommend you write this router's WAN port number down before using this function.

Remote Control

Remote Control

External Port

80

Save

1. Access to **Advanced>Remote Control**.
2. Turn on **Remote Control**.
3. Set **External Port**.
4. Click on **SAVE** to complete settings.

Chapter 12 System Setting

This chapter introduces firmware update, password change, system log, system time setting, indicator setting, backup and restore, and how to restart router.

It contains the following sections:

- [Firmware Update](#)
- [Change Password](#)
- [Time Zone](#)
- [Led Settings](#)
- [Backup & Restore](#)
- [Router Reboot](#)

Firmware Update

Regular firmware upgrade can obtain the newest functions and security patches, improving the performance and stability of the router, and fixing possible bugs and security risks.

WAVLINK provides two ways to upgrade your firmware: local upgrade and online upgrade. You can choose one of them to update your firmware.

Access to **Advanced**>**Firmware Update**.

Firmware Update

Current Version

M51K1_V251212

Upgrade File

Choose File



Upload

Latest Version

No New Version Information

Check New Version

Local Upgrade

1. Access to WAVLINK official website: www.wavlink.com. Download the corresponding upgraded software of the current hardware version.
2. Select the device that needs to be updated.
3. Click on **Choose File** or **File** icon, and select the firmware file that needs to be uploaded. Click on **UPLOAD**.
4. Wait for the completion of updating.

NOTE:

- After updating, the router will automatically reboot to apply new firmware. The process will take few minutes to complete, please wait patiently.
- During updating, the router can't be powered off in case the router's firmware gets damaged.

Online Upgrade

1. Choose the device that needs to be updated.
2. Click on **CHECK NEW VERSION** to view the upgradable version to update.
3. Wait for the update completion.

i NOTE:

- After updating, the router will automatically reboot to apply new firmware. The process will take few minutes to complete, please wait patiently.
- During updating, the router can't be powered off in case the firmware gets damaged.
- When CHECK FOR NEW VERSION, if the prompts show that the firmware is the newest version, there is no need to upgrade the router.

Change Password

Change Password

Old Password	
New Password	Not less than 6 characters
Confirm New Password	Not less than 6 characters
Save	

1. Access to **Advanced>Change Password**.
2. Input the current one on the **Old Password** text field.
3. Input the new one on the **New Password** text field.
4. Input the new one on the **Confirm New Password** text field, ensuring the inputted password is the same as the new password.
5. Click on **SAVE** to complete password changing.

Time Zone

The system time is the time displayed when the router is running. The system time you set here is used for other time-based features, like Parental Control.

Time Zone

Current Time

2025.11.27 09:21:50

Time Zone

(UTC-00:00) Dublin, Edinburgh, Lisbon, London ▼

Daylight Time



Save

1. Access to **Advanced>Time Zone**.
2. Choose the right time zone in the dropdown list of **Time Zone**.
3. Turn on/off **Daylight Time**.
4. Click on **SAVE** to complete the configuration.

Led Settings

The router's indicators are used for indicating the device's status or running. By setting the indicator, you can know the device's working status more clearly, find and ban machine problems in time.

Led Settings

Led Switch



Save

1. Access to **Advanced>Led Control**.
2. Turn on/off **LED Switch**.
3. Click on **SAVE** to complete the configuration.

Backup & Restore

Please configure settings as a configuration file stored in the router. You can backup this configuration file into your computer for future use, and restore the router to the previous setting with this backup file. Furthermore, if necessary, you can delete the current system setting and reset the router to the default factory settings.

Access to **Advanced**>**Backup and Restore**.

Backup and Restore

Generate Backup File

Upload Backup File

Please select a backup file 

Restore Configuration

Restore factory settings

Backup the current configuration of the router

Click on **GENERATE BACKUP FILE** to store the copy of current setting on the local computer, and name the file **backupsettings**.

Restore the router's configuration:

1. Click on **UPLOAD**, and choose the backup configuration file that was stored on the computer.
2. Click on **RESTORE CONFIGURATION**, and wait a few minutes to restore the configuration and restart the router.

Reset the router to the default factory settings

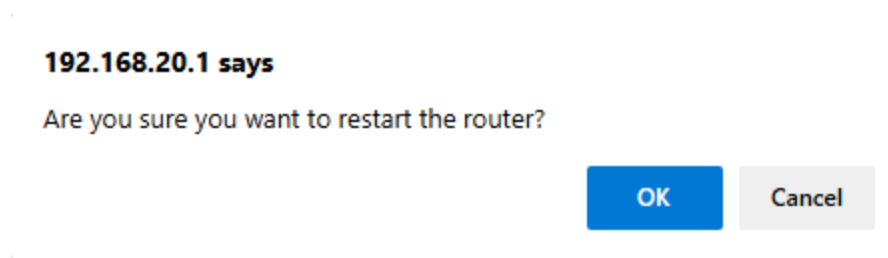
1. Click on **RESTORE FACTORY SETTINGS** to reset the router.
2. Wait a few minutes for the reset and reboot.

Router Reboot

When your router has a network malfunction, you can try to use the reboot function to solve the problem. Sometimes, the router may experience software errors or memory overflow issues, leading to network instability. Under these circumstances, you can reboot the router to solve this problem and get the network back up.

After modifying some settings of this router, you need to reboot the router to make the settings valid. Using the reboot function can quickly update the router's settings and make it valid.

1. Access to **Device>Router Reboot**.
2. Click on **ROUTER REBOOT**.



3. After clicking, a window will pop up, in which you will be asked whether to restart the router or not. If you want to reboot the router, choose **OK**. If not, choose **Cancel**.

Set Timed Restart

timed restart



Current Time

2025.11.27 09:34:06

restart time

00

:

00

Sun

Mon

Tue

Wed

Thu

Fri

Sat

[Save](#)

The automatic reboot function can clear unnecessary data in the router and automatically choose the best wireless channel.

Before turning on Reboot Plan, please ensure the system time is right. If the router's designated reboot time is less than 60 minutes, some unnecessary reboots won't be executed.

1.Access to **Advanced**>**timed restart**.

2.Turn on **timed restart**.

3.Choose the router's **Restart Time**, and the **Restart Date** to decide on reboot frequency.

4.Click on **SAVE** to complete the configuration.

Chapter 10 Logoff

Logoff

If you need to log out, please access to **Device** on the management page, then click on **Logout**.

Chapter 14 FAQ

This chapter contains the following sections :

- [FAQ](#)
- [GNU-General-Public-License-Notice](#)
- [After-sale-Service](#)

FAQ

Q1. Why doesn't the login page appear after entering <http://wavlogin.link> ?

- Please make sure your computer is set to obtain an IP address automatically.
- Verify if <http://wavlogin.link> is correctly entered in the web browser.
- Use another web browser and try it again.
- Reboot your router and try it again.

Q2. What can I do if I cannot access the Internet?

- Restart your modem(wait 5 minutes). Disconnect extra Ethernet ports from the modem.
- Test by connecting a computer directly to the modem. If issues persist, contact your ISP.
- For cable modems, clone the MAC address of the device which could get Internet from the modem via Ethernet cable in **More>Network>Internet>MAC Clone>Custom MAC**, then reboot modem and router.

Q3. How can I restore the router to its factory default settings?

- While the router is powered on, press and hold the Reset button for more than **6** seconds.

Q4. What can I do if I forget my administration management password?

- Refer to **FAQ:Q3** to reset the router.

Q5.What can I do if I forget my wireless network password?

- Connect the router to the PC via Ethernet cable. Log in the router's web management page at <http://wavlogin.link> and go to **Wireless**, you can find your Wi-Fi password here.

- Refer to **FAQ > Q3** to reset the router.

Q6. How to deploy the router to get the best Wi-Fi signal?

- Keep the router in the most central spot in your home and away from anything that might block its signal.

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<http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html>

<http://www.gnu.org/licenses/gpl.html>

After-sale Service

Need help?

We're here for you!



Online support: [wavlink.com](https://www.wavlink.com)

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



support@wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



+1 8889730883

Mon-Fri 9:00 am - 6:00 pm (UTC-5)

www.wavlink.com



**Thank you for purchasing
WAVLINK product!**

Chapter 15 Aftersale-Service_CE_FCC

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

NOTE:

(1)The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2)To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

Declaration of Conformity Hereby, Winstars Technology Limited, declares that the radio equipment type HALO Polar is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address:https://www.wavlink.com/en_us/ce.html

FCC Statement This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.