Cisco RV120W

Cisco RV120W Wireless-N VPN Firewall Router User Manual

1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your Cisco RV120W Wireless-N VPN Firewall Router. The RV120W is designed to offer secure connectivity and high-speed wireless access, making it suitable for small business environments with up to 20 employees. It integrates a 4-port switch, an intuitive browser-based device manager, and supports Small Business QuickVPN software.

Key features include highly secure connectivity to the internet and remote locations, high-speed 802.11n wireless access, and a 4-port switch with Quality of Service (QoS) support for enhanced voice, video, and data traffic. The device also supports IP Security (IPsec) VPN for secure connections to other offices and for traveling employees, and allows for up to four virtual networks to control access and simplify secure wireless guest access.

2. SETUP

Setting up your Cisco RV120W router is designed to be straightforward. The device features an intuitive, browser-based device manager and setup wizards to guide you through the initial configuration process. It also supports the Cisco FindIT Network Discovery Utility, which can automatically discover and display information about select Cisco Small Business devices on your network, simplifying management and deployment.

Front view of the Cisco RV120W Wireless-N VPN Firewall Router, showing its compact design and two external antennas.

Initial Installation Steps:

1. **Connect the Hardware:** Connect your internet service provider's modem to the router's WAN port. Connect your computer to one of the router's LAN ports using an Ethernet cable. Plug in the AC power adapter to the router and a power outlet.

2. **Access the Device Manager:** Open a web browser on your connected computer and enter the default IP address of the router (refer to the Quick Start Guide included in the box for the specific IP address).

3. **Run the Setup Wizard:** Follow the on-screen instructions provided by the setup wizard to configure your internet connection, wireless settings, and administrative password.

4. **Configure Wireless Security:** Ensure you set up strong wireless security (WPA2/AES recommended) to protect your network.

Video Guide:

An official video from Cisco introducing the RV120W Wireless-N VPN Firewall, highlighting its features and benefits for small businesses, including an overview of its capabilities and typical deployment scenarios.

3. OPERATING THE ROUTER

The Cisco RV120W offers a range of features to manage your network effectively. Once configured, you can utilize its capabilities for secure and efficient business operations.

Key Operational Features:

- **VPN Connectivity:** Establish secure IPsec VPN connections for remote access and inter-office communication.

This allows employees to securely access network resources from outside the main office.

- **Wireless-N Access:** Provide high-speed 802.11n wireless connectivity for devices within your business.
- **VLAN Support:** Create up to four separate virtual networks (VLANs) to segment your network. This is useful for isolating sensitive data or providing secure guest Wi-Fi access with full access control and content filtering.
- **Quality of Service (QoS):** Prioritize network traffic to ensure smooth performance for critical applications like voice and video communications, even during high network usage.
- **Content Filtering:** Implement powerful content filtering features, including static URL blocking and keyword blocking, to manage internet access for users on your network.
- **Wireless Protected Setup (WPS):** Easily add compatible wireless devices to your network using WPS for quick and secure connections.

4. MAINTENANCE

Regular maintenance ensures the optimal performance and security of your Cisco RV120W router.

Maintenance Guidelines:

- **Firmware Updates:** Periodically check the Cisco support website for new firmware versions. Updating the firmware can provide performance improvements, security patches, and new features.
- **Configuration Backup:** Regularly back up your router's configuration settings. This allows for quick restoration in case of accidental changes or system issues.
- **Monitor System Logs:** Utilize the router's browser-based device manager to review system logs. This can help identify unusual activity or potential issues early.
- **Physical Inspection:** Ensure the router is placed in a well-ventilated area, free from obstructions, to prevent overheating. Keep the device and its connections clean.

5. TROUBLESHOOTING

If you encounter issues with your Cisco RV120W router, consider the following troubleshooting steps:

Common Issues and Solutions:

- **No Internet Connectivity:**
  - Check all cable connections (WAN, LAN, power).
  - Restart your modem and router.
  - Verify your internet service provider (ISP) connection status.
  - Ensure WAN settings in the router's configuration match your ISP's requirements.

- **Slow Network Performance:**
  - Check for high CPU usage in the router's status page.
  - Reduce wireless interference by changing Wi-Fi channels or relocating the router.
  - Ensure QoS settings are correctly configured to prioritize essential traffic.
  - Update router firmware to the latest version.

- **VPN Connection Problems:**
  - Verify VPN client settings and credentials.
  - Check firewall rules on both the router and client devices.

- Ensure the public IP address of the router is accessible from the remote location.

- **Wireless Connectivity Issues:**
  - Confirm Wi-Fi is enabled on the router and client devices.
  - Check Wi-Fi password and security settings.
  - Ensure devices are within range of the wireless signal.

- **Security Alerts or Unusual Activity:**
  - Review the router's logs for any unauthorized access attempts or Denial of Service (DoS) attacks.
  - Ensure strong, unique passwords are used for administrative access and Wi-Fi.
  - Verify firewall rules are correctly configured to block unwanted traffic.

6. SPECIFICATIONS

Feature	Detail
Brand	Cisco
Model Name	RV120W
Item Model Number	RV 120W
Product Dimensions	5.91 x 5.91 x 1.34 inches
Item Weight	1.1 pounds
Special Feature	DC in Jack
Frequency Band Class	Single-Band
Wireless Communication Standard	802.11b, 802.11g, 802.11n
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet
Recommended Uses For Product	Business
Included Components	RV120W Wireless-N VPN Firewall, documentation and software on CD-ROM, network cable, AC power adapter, Quick Start guide
Connectivity Technology	Wi-Fi
Color	Black

7. WARRANTY AND SUPPORT

Your Cisco RV120W Wireless-N VPN Firewall Router comes with standard manufacturer support. For detailed

warranty information, please refer to the documentation included with your product or visit the official Cisco website. Additional protection plans may be available for purchase to extend coverage beyond the standard warranty period. These plans typically offer extended service and support options.

Support Resources:

- **Online Documentation:** Comprehensive user guides, FAQs, and technical specifications are available on the Cisco support website.

- **Technical Support:** Contact Cisco technical support for assistance with setup, configuration, or troubleshooting.

- **Cisco FindIT Network Discovery Utility:** This utility can assist in managing and troubleshooting your Cisco devices.

- **Product Page:** For more information and resources, please visit www.cisco.com/go/RV120W.