Cudy AP1300 Outdoor

Cudy AP1300-Outdoor AC1200 Gigabit Wireless Access Point User Manual

Model: AP1300 Outdoor

Introduction

This manual provides comprehensive instructions for the installation, configuration, and operation of the Cudy AP1300-Outdoor AC1200 Gigabit Wireless Access Point. Designed for robust outdoor performance, this device offers reliable dual-band Wi-Fi connectivity and versatile operating modes to meet various networking needs.





Image: The Cudy AP1300-Outdoor AC1200 Gigabit Wireless Access Point, a white rectangular device with two detachable antennas on top, shown from a slight angle.

Key Features

- **Outdoor AC1200 Gigabit Dual Band Access Point:** Utilizes 802.11ac Wave 2 technology, providing Wi-Fi speeds up to 867 Mbps on 5 GHz and 300 Mbps on 2.4 GHz. Features one Gigabit Ethernet port for up to 1000Mbps wired speeds.
- **5-IN-1 Multifunctional Operation:** Functions as an Outdoor Wireless Access Point, Outdoor WiFi Extender, Gigabit Outdoor WiFi Router, Gigabit Outdoor WISP Router or Gigabit Mesh Router.
- **Detachable RP-SMA Antennas:** Equipped with two external 5dBi WiFi antennas for enhanced signal quality. The detachable design allows for the use of other high-gain outdoor antennas with RP-SMA connectors.
- **IP65 Rated Weatherproof Design:** Features an IP65 rated waterproof housing and 4KV lightning protection, making it suitable for various outdoor environments.

- **Multiple Power Options:** Supports 802.3at/af PoE or 24~50V passive power supply (adapter included), offering flexible deployment options via PoE switch or PoE Injector.

Setup Guide

Package Contents

Before beginning installation, verify that all components are present in the package:

- Cudy AP1300-Outdoor Access Point
- 2 x Detachable 5dBi Antennas
- PoE Adapter (24~50V passive)
- Mounting Kit (for pole and wall mounting)
- Ethernet Cable
- Quick Installation Guide

Physical Installation

The AP1300-Outdoor can be mounted on a pole or a wall. Choose a location that provides optimal Wi-Fi coverage and is accessible for power and network cabling.

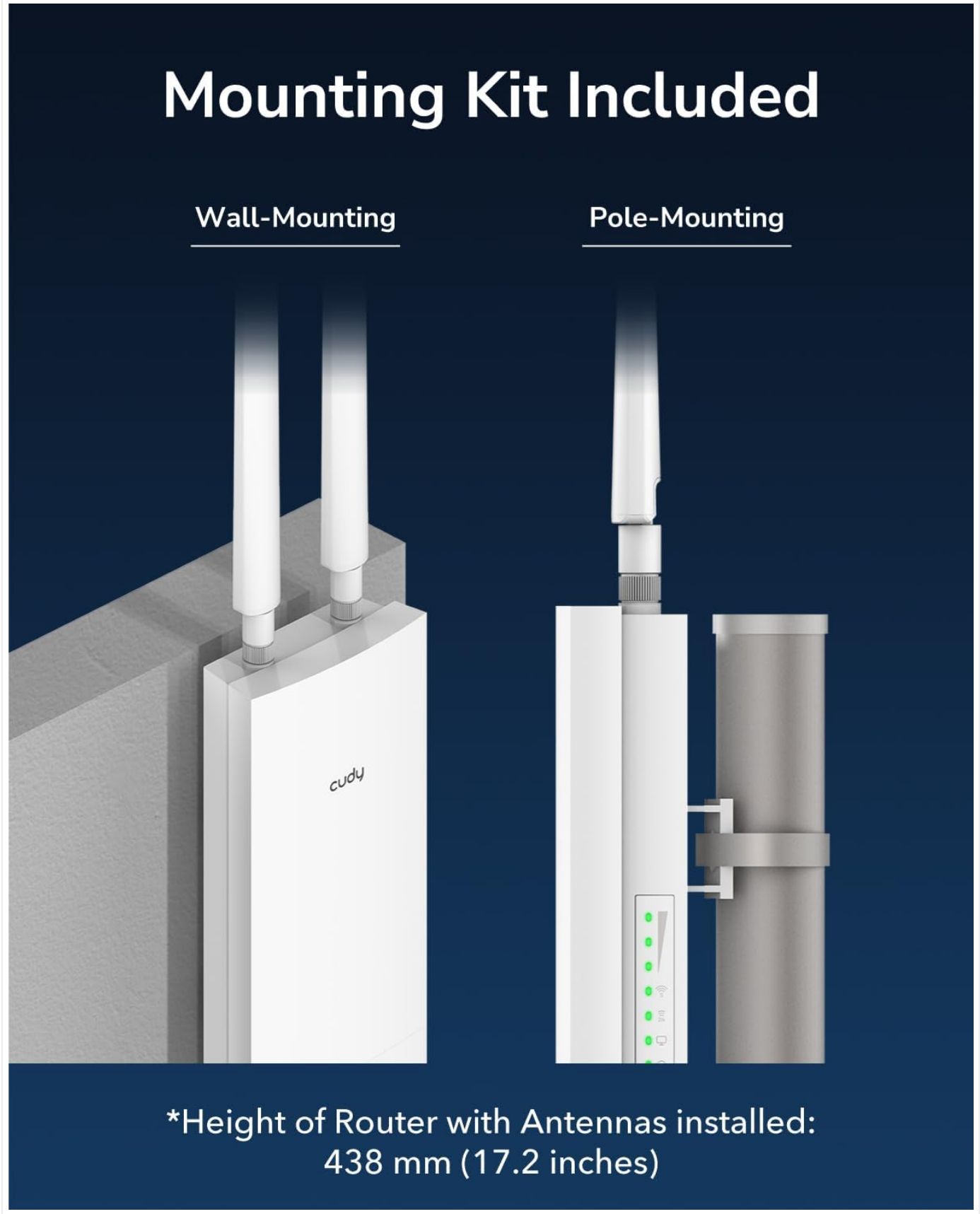


Image: Illustration showing both wall-mounting and pole-mounting options for the Cudy AP1300-Outdoor, highlighting the included mounting kit.

1. **Attach Antennas:** Screw the two detachable 5dBi antennas onto the RP-SMA connectors on the top of the access point. Ensure they are securely tightened.
2. **Mounting:**
    - **Pole Mounting:** Use the provided straps and bracket to secure the device to a pole. Ensure the device is oriented vertically for best performance.

- **Wall Mounting:** Use the provided screws and anchors to fix the device to a sturdy wall.

3. **Connect Ethernet Cable:** Connect one end of an Ethernet cable to the Gigabit Ethernet port (PoE-In) on the AP1300-Outdoor.
4. **Power Connection:**
   - **Using PoE Adapter:** Connect the other end of the Ethernet cable from the AP1300-Outdoor to the "PoE" port on the included PoE adapter. Connect another Ethernet cable from the "LAN" port of the PoE adapter to your router or network switch. Plug the power cord of the PoE adapter into an electrical outlet.
   - **Using PoE Switch:** If using a PoE switch (802.3at/af compatible), connect the Ethernet cable from the AP1300-Outdoor directly to a PoE-enabled port on the switch.

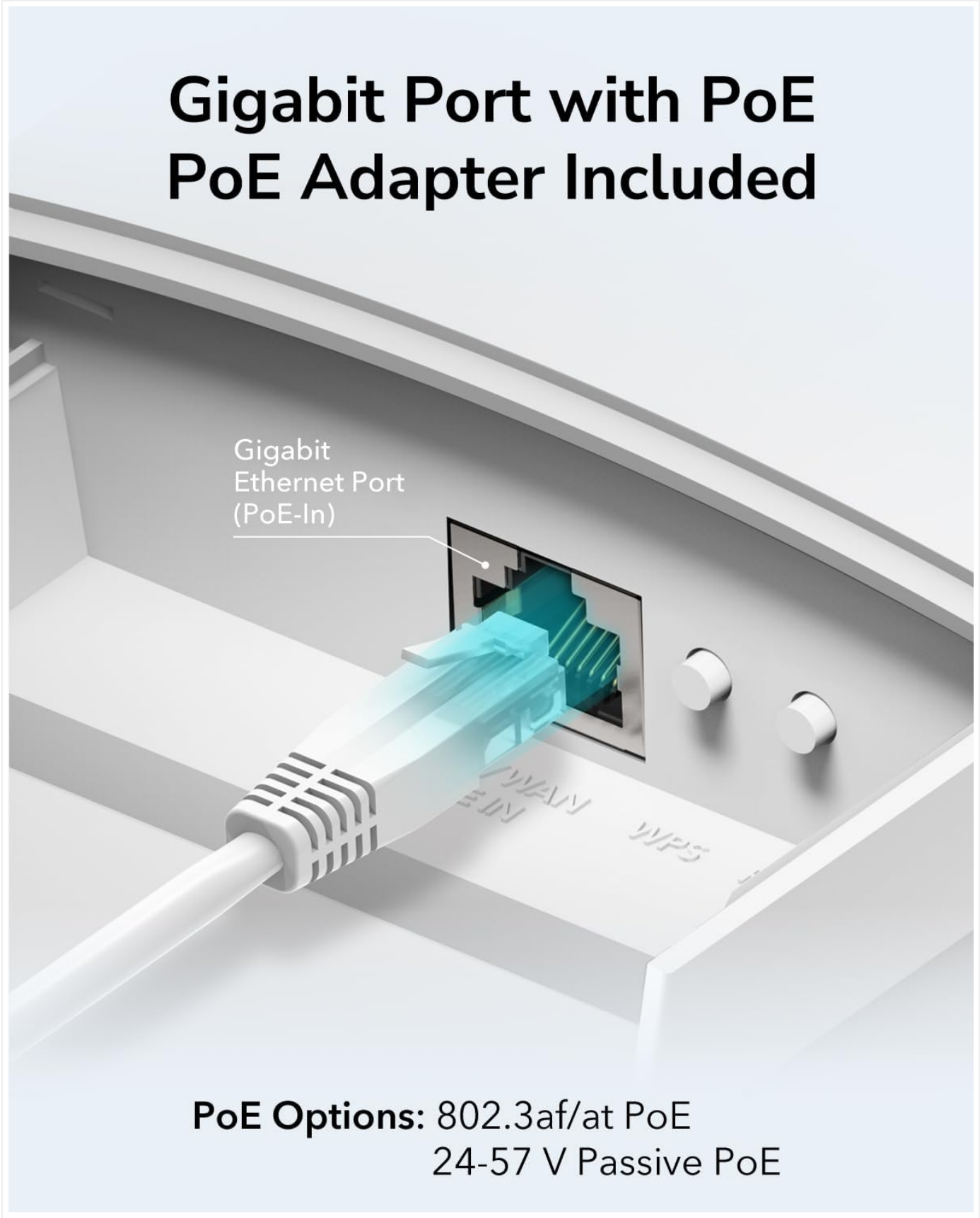


Image: Close-up view of the Gigabit Ethernet Port (PoE-In) on the Cudy AP1300-Outdoor, showing an Ethernet cable connected.

Operating Modes

The Cudy AP1300-Outdoor supports five primary operating modes, configurable via its web interface:

- **Access Point (AP) Mode:** Extends your existing wired network wirelessly. Ideal for adding Wi-Fi coverage to an area.
- **WiFi Extender Mode:** Repeats an existing wireless signal to extend its range.

- **Router Mode:** Functions as a primary router, providing internet access to connected devices.
- **WISP Router Mode:** Connects wirelessly to an ISP network and shares the internet connection via Ethernet and Wi-Fi.
- **Mesh Router Mode:** Integrates into a Cudy Mesh network to provide seamless whole-home Wi-Fi coverage. Requires a Cudy Mesh router/AC as a gateway.

Refer to the device's web management interface for detailed configuration steps for each mode.

Performance and Coverage

The AP1300-Outdoor delivers robust Wi-Fi performance across various outdoor scenarios:

- **Dual-Band Speeds:** Up to 867 Mbps on the 5 GHz band and 300 Mbps on the 2.4 GHz band, supporting multiple devices simultaneously with MU-MIMO and Beamforming technologies.
- **Extended Coverage:** Tested coverage ranges include approximately 550 ft (170 m) in open fields, 500 ft (150 m) in parks, 160 ft (50 m) in busy streets, and 100 ft (30 m) in wooded areas.



Image: Graphic illustrating the Cudy AP1300-Outdoor's dual-band Wi-Fi capabilities, showing 867 Mbps on 5 GHz and 300 Mbps on 2.4 GHz, along with MU-MIMO and Beamforming icons.



Image: Four panels depicting different outdoor environments (Open Field, Park, Busy Street, Woods) with estimated Wi-Fi coverage distances for the Cudy AP1300-Outdoor.

Weather-Proof Design

The AP1300-Outdoor is engineered for durability in harsh outdoor conditions:

- **IP65 Rated:** Provides protection against dust ingress and low-pressure water jets from any direction.

- **Lightning and ESD Protection:** Features 4 KV lightning/surge protection and 8 KV ESD protection to safeguard against electrical disturbances.
- **Extreme Temperature Operation:** Designed to operate reliably in temperatures ranging from -40℃ to 65℃.



Image: Graphic illustrating the weather-proof features of the Cudy AP1300-Outdoor, including rain-proof, extreme temperature operation (-40~65 °C), 4 kV lightning/surge protection, 8 kV ESD protection, and dust-proof capabilities.

Cudy App and Mesh Technology

Manage your Cudy AP1300-Outdoor and enhance your network experience with the Cudy App and Mesh technology:

- **Cudy App:** Effortlessly set up and manage your online experience directly from your smartphone. The app provides a streamlined interface for configuration and monitoring.
- **Cudy Mesh:** For seamless whole-home Wi-Fi, the AP1300-Outdoor can integrate with other Cudy Mesh devices. This technology supports both Ethernet and wireless backhaul, ensuring consistent coverage.





Image: Left: A smartphone screen displaying the Cudy App dashboard for network management. Right: An illustration of Cudy Mesh technology showing multiple access points creating a seamless Wi-Fi network across an area.

VPN Support

The Cudy AP1300-Outdoor supports various VPN protocols for secure and convenient network access:

- **Supported Protocols:** WireGuard, OpenVPN, IPSec, L2TP, PPTP.

- This allows for sharing VPN subscriptions or hosting a VPN server directly on the device. Availability of specific features may vary by model and firmware version.

Specifications

Attribute	Value
Product Dimensions	9.49 x 2.13 x 9.49 inches
Item Weight	1.06 pounds
Model Number	AP1300 Outdoor
Brand	Cudy
Special Feature	Access Point Mode
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11ac
Compatible Devices	Personal Computer
Frequency	5 GHz
Recommended Uses For Product	Indoor/Outdoor
Connectivity Technology	Wi-Fi
Antenna Type	Retractable
Manufacturer	Shenzhen Cudy Technology Co., Ltd.
Country of Origin	China
Date First Available	March 7, 2023

Troubleshooting

This section provides solutions to common issues you might encounter.

- **No Power:**
  - Ensure the PoE adapter is correctly connected to a power outlet and the AP1300-Outdoor.
  - If using a PoE switch, verify that the switch port is PoE-enabled and providing power.
  - Check all cable connections for looseness.
- **No Internet Access:**
  - Verify that your main router or modem is functioning correctly and has internet connectivity.
  - Check the Ethernet cable connection between the AP1300-Outdoor (or its PoE adapter) and your main network device.

- Ensure the AP1300-Outdoor is configured in the correct operating mode (e.g., AP mode if connected to a router, Router mode if directly connected to a modem).
- Restart the AP1300-Outdoor and your main network devices.

- **Weak Wi-Fi Signal or Poor Performance:**
  - Relocate the AP1300-Outdoor to a more central position or higher elevation to improve line-of-sight.
  - Ensure antennas are securely attached and oriented correctly.
  - Check for sources of interference (e.g., other wireless devices, large metal objects, thick walls).
  - Consider changing Wi-Fi channels in the device's settings to avoid interference.
- **Cannot Access Web Management Interface:**
  - Ensure your computer is connected to the same network as the AP1300-Outdoor (either via Wi-Fi or Ethernet).
  - Verify the IP address of the AP1300-Outdoor. By default, it might be 192.168.1.1 or obtain an IP from your router via DHCP.
  - Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
  - Try clearing your browser's cache or using a different browser.

For more detailed troubleshooting or advanced configurations, please refer to the full user manual available on the Cudy official website or contact Cudy support.

Maintenance

- **Firmware Updates:** Regularly check the Cudy official website for the latest firmware updates. Updating firmware can improve performance, add new features, and fix bugs.
- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Environmental Check:** Ensure the mounting location remains secure and free from obstructions that could affect signal or physical integrity.

Warranty and Support

Cudy products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Cudy website.
Customer Support: Cudy provides comprehensive support for its products. For technical assistance, setup guidance, or troubleshooting not covered in this manual, please visit the Cudy support page on their official website or contact their customer service team. Official videos are also available to guide you through setup processes.
Online Resources:

Cudy Official Website

Cudy Amazon Store

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question