Cudy AP1200 Outdoor

Cudy AC1200 Outdoor Wireless Access Point (AP1200 Outdoor) User Manual

Model: AP1200 Outdoor

1. PRODUCT OVERVIEW

The Cudy AC1200 Outdoor Wireless Access Point (AP1200 Outdoor) is designed to provide reliable and high-speed Wi-Fi connectivity in outdoor environments. It supports the latest 802.11ac Wave 2 technology, offering dual-band Wi-Fi speeds up to 867 Mbps on 5 GHz and 300 Mbps on 2.4 GHz. Key features include MU-MIMO, Beamforming, IP65 waterproof rating, 4KV lightning protection, and flexible Power over Ethernet (PoE) options.

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AC1200 Gigabit Outdoor Wireless Access Point

[AP1200 Outdoor]

AC1200 Wi-Fi | 10/100 Mbps PoE Port | -40/65 °C Working Temp. | Dust and Water Resistant (IP65)

Figure 1: Cudy AP1200 Outdoor Wireless Access Point Overview

2. PACKAGE CONTENTS

Verify that your package contains all the items listed below:

- AP1200 Outdoor Wireless Access Point
- Power Adapter

- Detachable Antennas (2 units)
- Power Cord
- Mounting Kit
- Ethernet Cable
- Installation Guide (this manual)

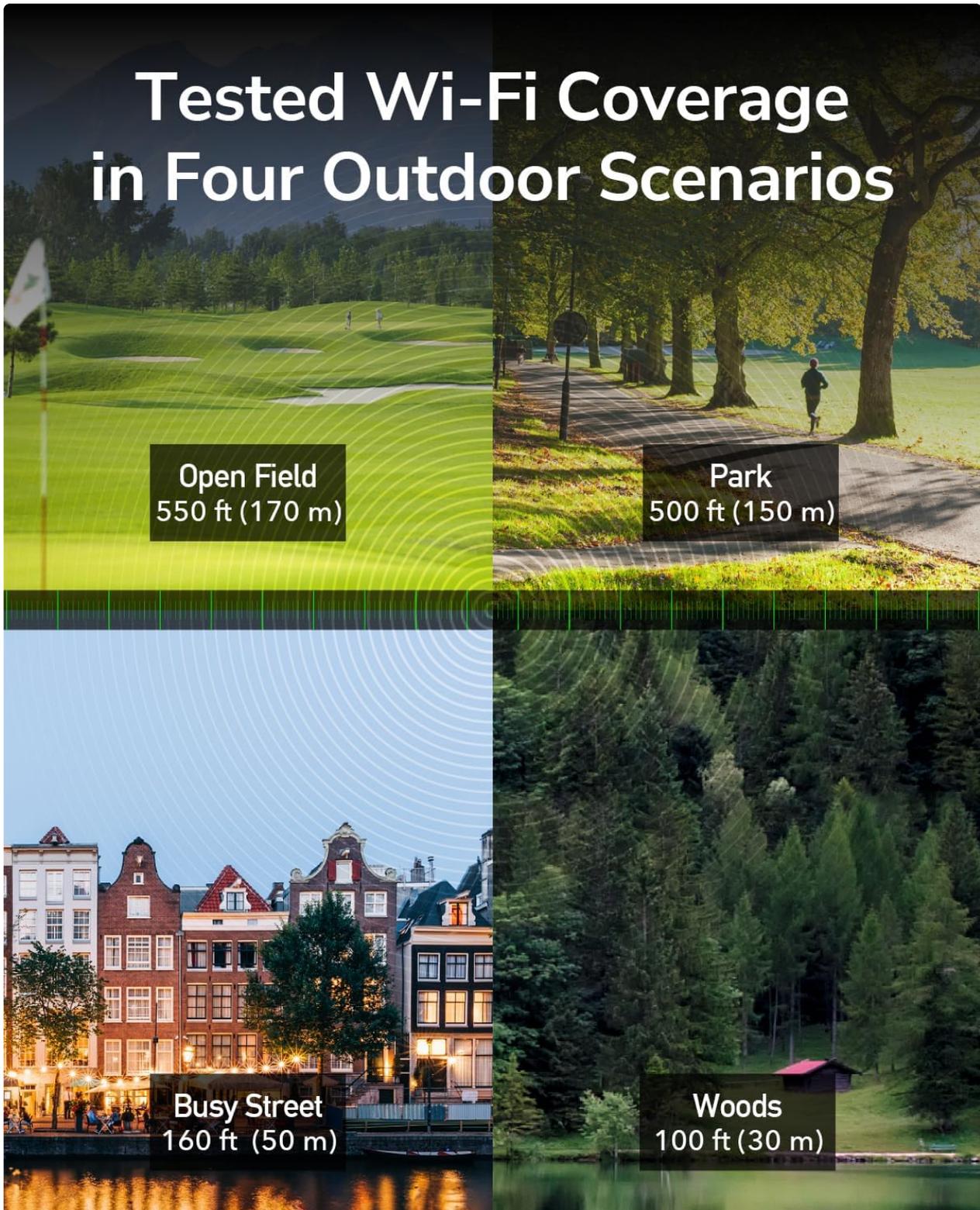# 3. HARDWARE OVERVIEW

3.1 Physical Appearance

Figure 2: Cudy AP1200 Outdoor Access Point

3.2 LED Indicators

The device features several LED indicators to show its status:

- **Power LED:** Indicates power status.
- **LAN LED:** Indicates Ethernet connection status.
- **2.4GHz Wi-Fi LED:** Indicates 2.4GHz wireless activity.
- **5GHz Wi-Fi LED:** Indicates 5GHz wireless activity.

3.3 Ports and Buttons

The device includes the following ports and buttons:

- **RJ45 Port (PoE-IN):** Used for both data and power input via Power over Ethernet.
- **Reset Button:** Used to restore factory default settings.
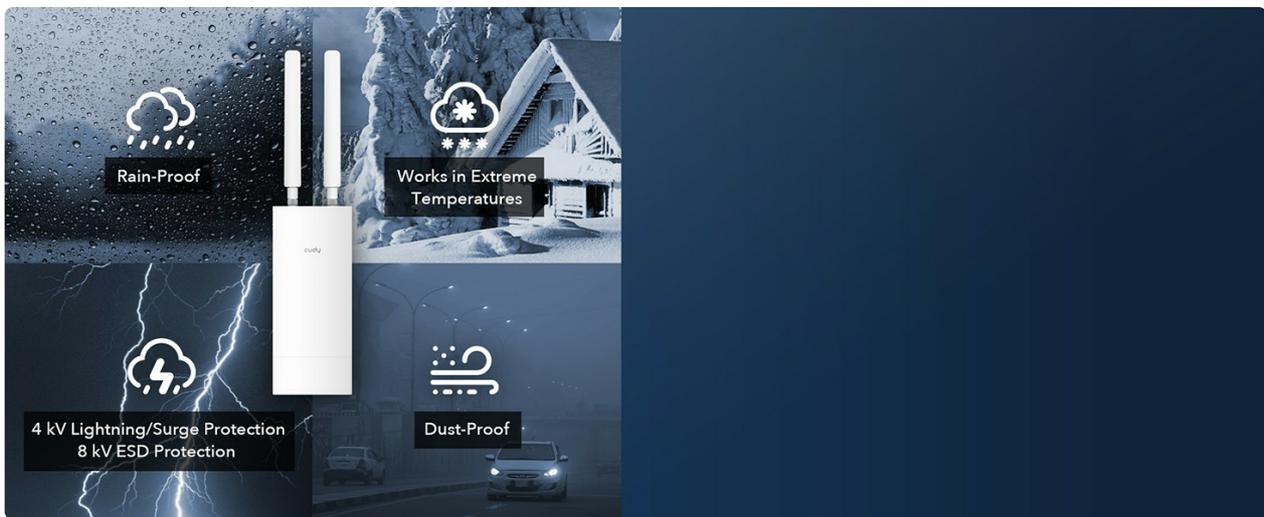- **Antenna Connectors:** Two RP-SMA connectors for detachable antennas.

Figure 3: RJ45 Port with PoE-IN

4. SETUP AND INSTALLATION

4.1 Attaching Antennas

Carefully screw the two detachable 5dBi antennas onto the RP-SMA connectors on the device. Ensure they are securely fastened but do not overtighten.

Figure 4: Antennas Attached to AP1200 Outdoor

4.2 Power over Ethernet (PoE) Connection

The AP1200 Outdoor supports 802.3at/af PoE or 24~50V passive power supply. Use the included PoE adapter to power the device and connect it to your network.

1. Connect one end of an Ethernet cable to the LAN port of your router or network switch.

2. Connect the other end of this Ethernet cable to the 'LAN' port on the PoE adapter.

3. Connect one end of the included Ethernet cable to the 'PoE' port on the PoE adapter.

4. Open the protective cover on the AP1200 Outdoor and connect the other end of the Ethernet cable from the PoE adapter to the RJ45 (PoE-IN) port on the AP.

5. Plug the PoE adapter into a power outlet. The device will power on, and the Power LED will illuminate.

4.3 Mounting Options

The AP1200 Outdoor can be mounted on a pole or a wall using the provided mounting kit. Choose a location that offers optimal Wi-Fi coverage and is protected from direct impact.

- **Pole Mounting:** Use the straps and brackets to secure the device to a pole.
- **Wall Mounting:** Use screws and anchors to attach the device to a wall.

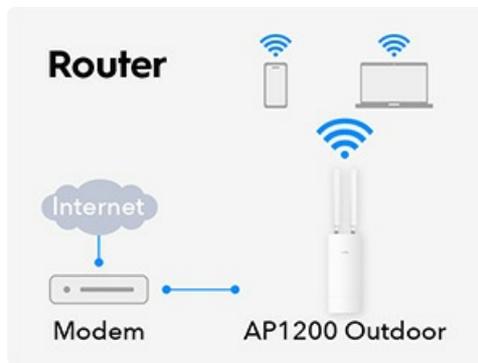Figure 5: Mounting Options (Wall and Pole)

5. OPERATING MODES

The Cudy AP1200 Outdoor supports multiple operating modes to suit various network requirements:

- **Access Point (AP) Mode:** Connects to a wired network and transforms it into a wireless network, allowing multiple Wi-Fi devices to connect.
- **Extender Mode:** Extends the coverage of an existing wireless network.
- **Router Mode:** Functions as a primary router, providing internet access to connected devices.
- **WISP Mode:** Connects wirelessly to an Internet Service Provider (ISP) network and shares the connection with local devices.
- **Mesh Router Mode:** Creates a seamless mesh Wi-Fi network with other compatible devices.

Access Point Mode

Router Mode

Repeater Mode

WISP Mode

6. CONFIGURATION

To configure the AP1200 Outdoor, connect a computer to the device via Ethernet or Wi-Fi. Access the web-based management interface using a web browser.

1. Ensure your computer is connected to the AP1200 Outdoor (either directly via Ethernet or to its default Wi-Fi network).
2. Open a web browser and enter the default IP address (usually192.168.10.1 or refer to the Quick Installation Guide) in the address bar.
3. Enter the default username and password (typicallyadmin for both).
4. Follow the on-screen wizard to set up your desired operating mode, Wi-Fi name (SSID), and password.
5. Save your settings and restart the device if prompted.

7. MAINTENANCE

7.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Visit the Cudy official website for the latest firmware for your AP1200 Outdoor model.

7.2 Cleaning

As an outdoor device with an IP65 rating, the AP1200 Outdoor is protected against dust and water. However, periodic cleaning can help maintain its appearance and prevent excessive buildup. Use a soft, damp cloth to wipe the exterior. Do not use harsh chemicals or abrasive cleaners.

7.3 Environmental Considerations

The device is designed to operate in a wide range of outdoor temperatures (-40°C to 65°C). Ensure proper ventilation and avoid placing it in direct sunlight for prolonged periods if possible, to maximize lifespan.

Figure 6: Weather-Proof Design

8. TROUBLESHOOTING

If you encounter issues with your AP1200 Outdoor, refer to the following common troubleshooting steps:

- **No Power:** Ensure the PoE adapter is correctly plugged into a power outlet and the Ethernet cable is securely connected to the AP's PoE-IN port. Check the power LED.
- **No Internet Access:** Verify that your main router has internet access. Check the Ethernet cable connections between the router, PoE adapter, and AP. Ensure the AP is configured in the correct operating mode.
- **Weak Wi-Fi Signal:** Adjust the antenna orientation. Relocate the AP to a more central position or higher elevation. Check for physical obstructions.
- **Cannot Access Web Management Page:** Ensure your device is connected to the AP's network. Verify the IP address entered in the browser is correct. Try clearing your browser's cache or using a different browser.
- **Factory Reset:** If problems persist, you may need to perform a factory reset. With the device powered on, use a paperclip to press and hold the Reset button for approximately 5-10 seconds until the LEDs flash. The device will restart with factory default settings.

9. SPECIFICATIONS

Feature	Description
Model Name	AP1200 Outdoor
Product Dimensions	9.45 x 3.94 x 2.11 inches
Item Weight	14.6 ounces
Wireless Standard	802.11ac Wave 2
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Wi-Fi Speed (5 GHz)	Up to 867 Mbps
Wi-Fi Speed (2.4 GHz)	Up to 300 Mbps
Antennas	2 external 5dBi detachable antennas
Ports	1x RJ45 (PoE-IN)
Power Supply	802.3at/af PoE or 24~50V Passive PoE (adapter included)
Weather Protection	IP65 rated waterproof housing, 4KV lightning protection
Operating Temperature	-40°C to 65°C
Compatible Devices	Personal Computer, Security Camera, Smart Television, Smartphone, Tablet

10. WARRANTY INFORMATION

Cudy products are backed by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Cudy website. Keep your purchase receipt as proof of purchase for warranty claims.

11. TECHNICAL SUPPORT

If you require further assistance or have questions not covered in this manual, please contact Cudy Technical Support. You can find contact information, FAQs, and additional resources on the official Cudy website:

- **Website:** www.cudy.com
- **Email:** Refer to the website for support email addresses.