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WAVLINK N300

WAVLINK N300 2.4G Outdoor PoE WiFi Repeater Instruction Manual

Model: N300

1. Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of your WAVLINK N300 2.4G Outdoor PoE WiFi Repeater. This device is designed to extend your wireless network coverage in outdoor environments, offering a stable and powerful connection for various applications.



Image 1.1: WAVLINK N300 Outdoor WiFi Repeater with 2.4G antennas.

2. Product Overview

2.1 Package Contents

Verify that all items listed below are included in your package:

- 1 x WAVLINK N300 WiFi Repeater Unit
- 1 x Power Adapter
- 1 x PoE Converter
- 1 x Ethernet Cable
- 1 x Set of Connectors

- Several Screws
- 2 x Cable Ties
- 1 x Quick Installation Guide



Image 2.1: Contents of the WAVLINK N300 product package.

2.2 Key Features

The WAVLINK N300 offers the following features:

- **Outdoor Design:** Weatherproof enclosure for stable operation in harsh outdoor conditions.
- **High Power Output:** Up to 1000 mW for extended wireless coverage.
- **Wireless Speed:** Up to 300 Mbps with 2x2 MIMO technology.
- **PoE Support:** Passive Power over Ethernet (PoE) for flexible deployment up to 60 meters (200 feet).
- **Protection:** 15 kV ESD protection and 4 kV surge protection.
- **Multiple Operating Modes:** Supports Router, Access Point (AP), Repeater, and WISP modes.

- **Antennas:** Built-in high-gain omnidirectional antennas.



Image 2.2: Visual representation of WAVLINK N300 key features including antenna type, protection, and operating modes.



Image 2.3: The WAVLINK N300 features a professional outdoor design with weatherproof enclosure and robust protection against electrical discharge and surges.

3. Setup Instructions

3.1 Physical Installation

Follow these steps for physical installation and cable connection:

1. Pass the RJ45 cable through the bottom spiral cover.
2. Pass the RJ45 cable through the rubber seal.
3. Pass the RJ45 cable through the upper spiral cover.
4. Connect the RJ45 cable to the RJ45 port on the device.
5. Screw up the upper spiral cover.
6. Plug the rubber seal to the upper spiral cover.
7. Screw up the bottom spiral cover.

Important: Ensure the Ethernet cable is properly crimped and sealed within the waterproof gasket to maintain the device's waterproofing. Improper sealing can compromise its outdoor resistance.

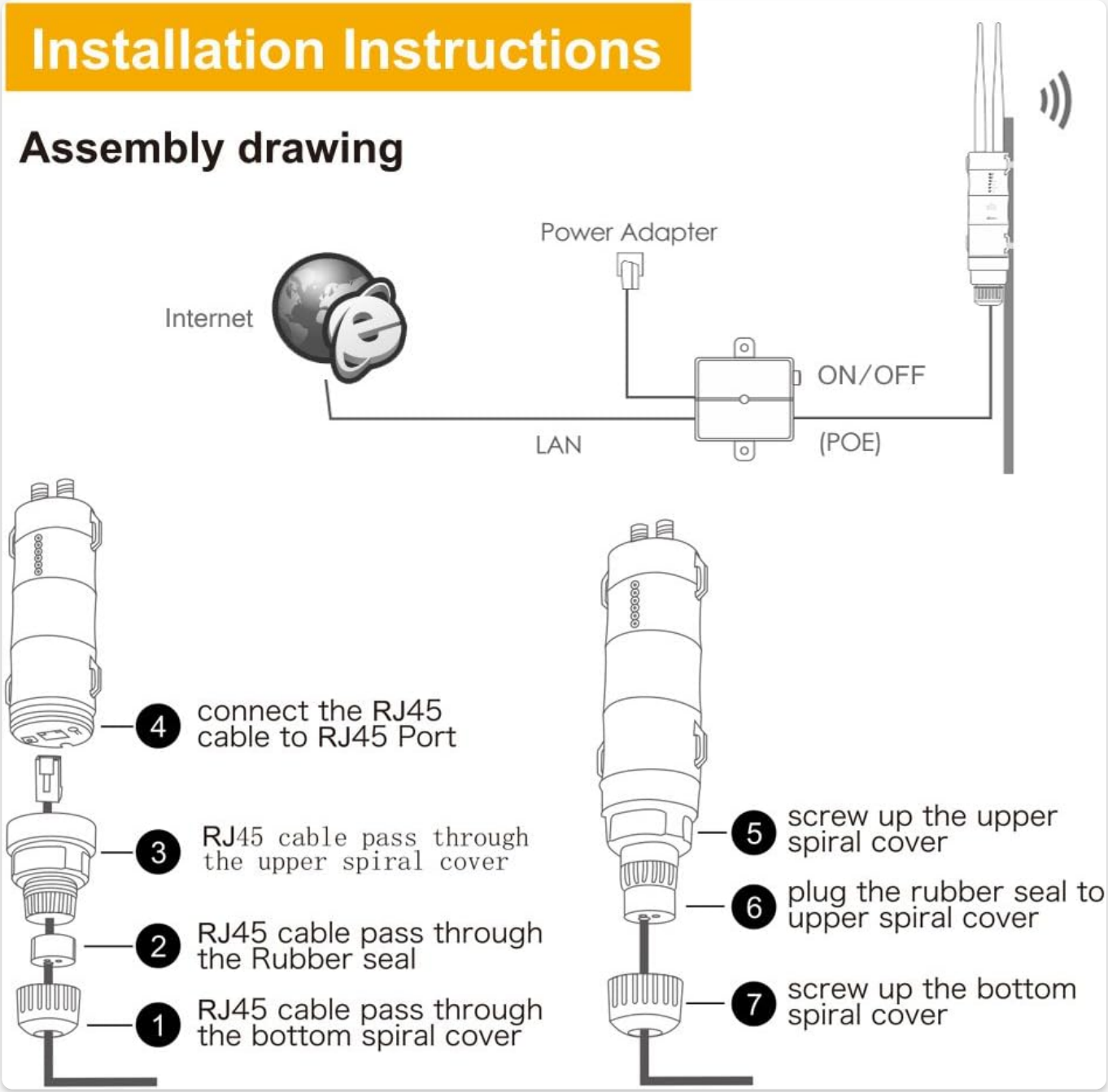

Image 3.1: Step-by-step diagram for connecting the RJ45 Ethernet cable and sealing it for outdoor use.

3.2 Power over Ethernet (PoE) Connection

The device is powered via Power over Ethernet (PoE). Connect the Ethernet cable from the device to the PoE converter's 'PoE' port. Then, connect another Ethernet cable from the PoE converter's 'LAN DATA IN' port to your router or network switch. Finally, connect the power adapter to the PoE converter.

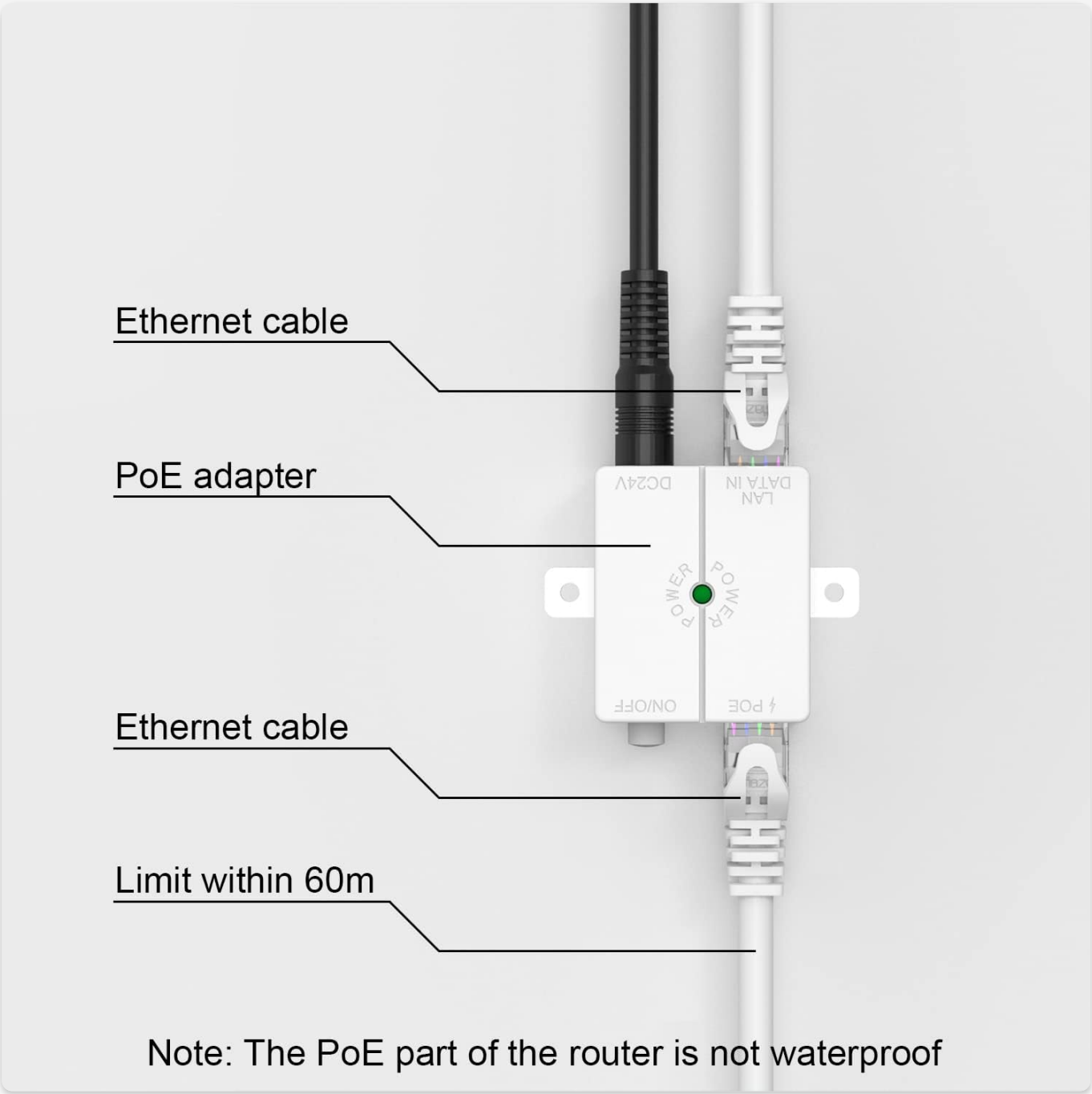

Image 3.2: Diagram illustrating the connection of Ethernet cables and the power adapter to the PoE converter. Note that the PoE part of the router is not waterproof.

3.3 Initial Configuration

After physical installation, configure the device:

1. Connect your computer or mobile device to the WAVLINK N300's default Wi-Fi network (SSID usually found on the device label or quick start guide).
2. Open a web browser and enter the default IP address (e.g., 192.168.10.1 or 192.168.1.1). Refer to the Quick Installation Guide for the exact default IP.
3. Enter the default username and password. Commonly, both are 'admin'. You will be prompted to change the password for security.
4. Follow the on-screen wizard to select your desired operating mode (AP, Repeater, Router, or WISP) and configure network settings.

4. Operating Modes

The WAVLINK N300 supports several operating modes to suit different network requirements:

- **Access Point (AP) Mode:** Connects to a wired network and broadcasts a wireless signal, allowing wireless devices to connect.
- **Router Mode:** Functions as a primary router, connecting to an internet source (e.g., modem) and providing both wired and wireless network access.
- **Repeater Mode:** Extends the coverage of an existing wireless network by receiving the signal and re-transmitting it.
- **WISP Mode (Wireless Internet Service Provider):** Connects wirelessly to an ISP access point and shares the internet connection with local wired and wireless clients.

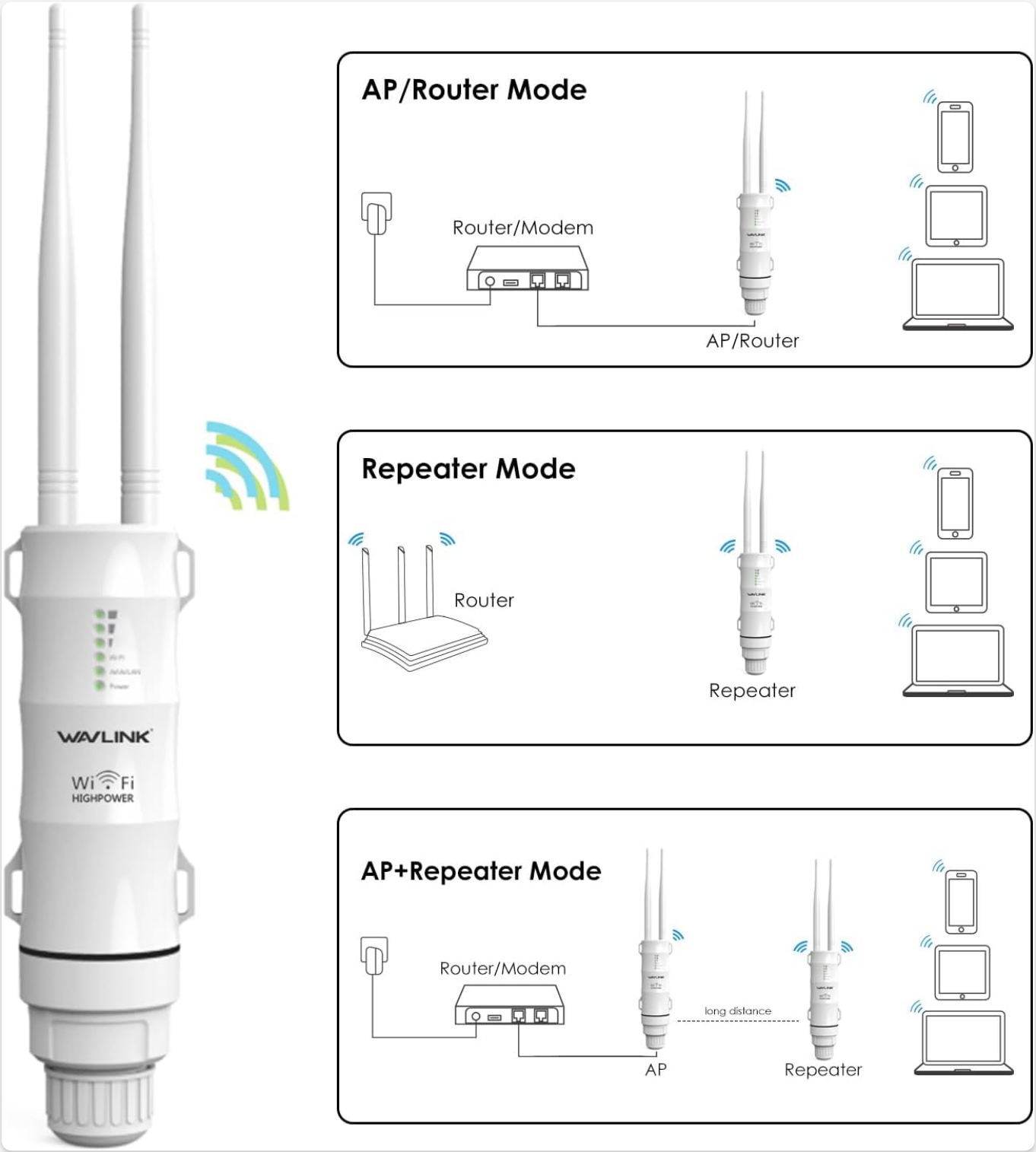

Image 4.1: Diagrams illustrating the AP/Router Mode, Repeater Mode, and AP+Repeater Mode configurations.



Image 4.2: Diagrams illustrating the WISP Mode, Repeater Mode, and Router/AP Mode configurations.

5. Maintenance

To ensure optimal performance and longevity of your WAVLINK N300, consider the following maintenance tips:

- **Regular Checks:** Periodically inspect the device and its cable connections for any signs of wear, damage, or loose fittings, especially after severe weather conditions.
- **Firmware Updates:** Check the WAVLINK official website for the latest firmware updates. Keeping the firmware updated can improve performance, security, and add new features.
- **Cleaning:** Gently clean the exterior of the device with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Environmental Considerations:** While designed for outdoor use, avoid placing the device in locations prone to direct, prolonged exposure to extreme conditions if possible, to maximize its lifespan.

6. Troubleshooting

If you encounter issues with your WAVLINK N300, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to the PoE converter and the power outlet. Check if the power LED on the device is illuminated.
- **No Internet Connection:** Verify that the Ethernet cable from the PoE converter's 'LAN DATA IN' port is correctly connected to your main router/modem and that your main internet connection is active.
- **Weak or Unstable Signal:**
    - Ensure the device is positioned optimally, with minimal obstructions between it and the areas requiring coverage. Walls and dense objects can significantly reduce signal strength.
    - Check for sources of interference (e.g., other wireless devices, microwaves).
    - Adjust the device's orientation if possible.
- **Cannot Access Web Management Page:**
    - Ensure your device is connected to the WAVLINK N300's network.
    - Verify that you are using the correct IP address (e.g., 192.168.10.1).
    - Try clearing your browser's cache or using a different browser.
    - If you forgot the login credentials, you may need to perform a factory reset.
- **Factory Reset:** If issues persist, locate the reset button on the device (often a small pinhole). With the device

powered on, press and hold the reset button for approximately 5-10 seconds until the LEDs flash, then release. The device will revert to factory default settings.

7. Technical Specifications

Feature	Specification
Brand	WAVLINK
Model Number	B0CRYV36YV
Wireless Type	802.11g (2.4G)
Data Transfer Rate	300 Megabits per second
Special Features	PoE Support, High Power Output, Weather-resistant Design
Color	White
Item Weight	470 grams
Product Dimensions	28.7 x 12.4 x 5.9 cm

8. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or visit the official WAVLINK website. You can typically find FAQs, driver downloads, and contact information for customer service there.

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