Orayafid YY-R7

Orayafid Solar Outdoor Wi-Fi Repeater (Model YY-R7) Instruction Manual

Brand: Orayafid | Model: YY-R7

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Orayafid Solar Outdoor Wi-Fi Repeater, Model YY-R7. This device is designed to extend your existing Wi-Fi network, providing robust signal coverage in outdoor environments.

Key Features:

- **Extended Wi-Fi Coverage:** Delivers a robust Wi-Fi signal with speeds up to 300Mbps at 2.4GHz, ideal for wireless security cameras, streaming, and other high-bandwidth activities.
- **Solar Powered:** Equipped with a 15W high-efficiency solar panel (24% conversion efficiency) and a 20000mAh rechargeable lithium battery, ensuring continuous operation even during cloudy days. The solar panel is protected by durable tempered glass.
- **Weatherproof Design:** Features an IP65 waterproof rating, allowing it to withstand extreme weather conditions including heavy rain and snow.
- **Easy Installation:** Includes a 360-degree adjustable bracket for straightforward positioning and optimal signal reception.
- **Note:** This repeater connects to your primary Wi-Fi network to create a secondary network. It is not compatible with Starlink systems.

2. What's in the Box

Please verify that all items are present in your package:

- Solar Panel with Repeater Unit
- Mounting Bracket

- Screw Kit



Figure 2.1: Contents of the package, including the solar outdoor repeater (12.6 x 9.2 inches), mounting bracket (7.4 inches), and screw kit.

3. Setup Instructions

3.1 Physical Installation

Follow these steps for the physical installation of your repeater:

1. **Mount the Bracket:** Securely mount the adjustable bracket to your desired outdoor location using the provided screw kit. Ensure the location receives ample sunlight for the solar panel.
2. **Attach Repeater to Bracket:** Fix the solar outdoor repeater unit to the mounted bracket.
3. **Adjust Angle:** Adjust the angle of the solar outdoor repeater to optimize both solar exposure and Wi-Fi signal direction. The bracket allows for 360-degree rotation and 90-degree tilt.



Figure 3.1: Visual representation of the repeater extending network coverage from a router to a mobile device over 150 meters.



Figure 3.2: The repeater's IP65 waterproof and dustproof design, suitable for various weather conditions.

3.2 Software Configuration

Refer to the following video for a detailed guide on configuring your Wi-Fi extender:

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Video 3.1: Step-by-step guide on setting up the outdoor Wi-Fi extender, covering initial connections and configuration.

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Video 3.2: An official video tutorial detailing the configuration steps for the outdoor Wi-Fi extender, including connecting to the network and finalizing settings.

4. Operating Instructions

Once the repeater is set up, it will automatically extend your Wi-Fi network. Connect your devices to the new extended network SSID (usually your original network name with '_EXT' appended) using your existing Wi-Fi password.

4.1 Network Performance

The repeater is designed to provide stable and fast internet access for various outdoor applications.

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Video 4.1: This video showcases various application scenarios for the solar-powered outdoor Wi-Fi extender, such as providing internet in garden villas, mountain pastures, and during camping trips.

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Video 4.2: This video demonstrates the actual rate testing of the Wi-Fi extender, showing its transmission distance and the resulting internet speed at various points.

4.2 Connecting Devices

The repeater supports connection for up to 8 devices simultaneously, including security cameras, mobile phones, tablets, smart door locks, Bluetooth speakers, and laptops.



Figure 4.1: The repeater's capability to connect up to 8 devices for a comprehensive Wi-Fi solution.

5. Maintenance

To ensure optimal performance and longevity of your Orayafid Solar Outdoor Wi-Fi Repeater, regular maintenance is recommended:

- **Clean Solar Panel:** Periodically clean the surface of the solar panel to remove dust, dirt, or debris that may reduce charging efficiency. Use a soft, damp cloth.
- **Check Connections:** Ensure all cables and connections are secure and free from damage.
- **Inspect Mounting:** Verify that the mounting bracket remains securely fastened and the repeater's position is stable.
- **Software Updates:** Check the manufacturer's website for any available firmware updates to improve performance and security.

6. Troubleshooting

If you encounter issues with your Wi-Fi repeater, refer to the following common solutions:

- **No Signal/Weak Signal:**
  - Ensure the repeater is within range of your main router.
  - Adjust the repeater's antenna direction for optimal signal reception.
  - Verify the solar panel is receiving sufficient sunlight and the battery is charged.
- **Slow Internet Speed:**
  - Reduce the number of connected devices.
  - Check for obstructions between the repeater and your devices.
  - Ensure your main router's internet speed is adequate.
- **Connection Drops:**
  - Restart both your main router and the repeater.
  - Check for environmental interference from other electronic devices.
- **Resetting the Repeater:** If issues persist, you may need to reset the repeater to factory settings.

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Video 6.1: This short video demonstrates how to reset the Wi-Fi extender to its factory settings, a useful step for troubleshooting persistent issues.

7. Specifications

Feature	Detail
Model Number	YY-R7
Product Dimensions	12.6 x 9.25 x 7.87 inches
Item Weight	4.09 pounds

Batteries	10 Lithium Ion batteries required (included)
Wireless Communication Standard	802.11bgn
Data Transfer Rate	300 Megabytes Per Second
Special Feature	Weatherproof
Manufacturer	AI MATCH INTELLIGENT TECHNOLOGY CO., LTD

8. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official Orayafid website. Keep your purchase receipt for any warranty claims.

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