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Orayafid YY-R7

Orayafid Solar Outdoor Wi-Fi Repeater

Model: YY-R7

1. Introduction

The Orayafid Solar Outdoor Wi-Fi Repeater, Model YY-R7, is designed to extend your existing Wi-Fi network coverage outdoors. This device operates on the 2.4GHz band, providing speeds up to 300Mbps, making it suitable for various outdoor applications such as wireless security cameras, streaming, and general internet browsing. It features an integrated solar panel and a high-capacity 20000mAh battery for continuous operation, even in challenging weather conditions.



Figure 1: Orayafid Solar Outdoor Wi-Fi Repeater (Model YY-R7)

2. What's in the Box

Please ensure all items are present and in good condition upon unpacking:

- Solar panel with Wi-Fi repeater unit
- Mounting bracket
- Screw kit for installation
- User manual (this document)



Figure 2: Package Contents

3. Product Overview

The Orayafid Solar Outdoor Wi-Fi Repeater is engineered for reliable outdoor performance. Key features include:

- **Overall Relay Functionality:** Extends existing Wi-Fi network with robust signal up to 300Mbps at 2.4GHz.
- **High-Efficiency Solar Panel:** A 15W solar panel with 24% conversion efficiency ensures continuous power. Protected by durable tempered glass.
- **High-Quality Lithium Battery:** Equipped with a 20000mAh rechargeable lithium battery, providing extended usage and up to 500 recharge cycles. Includes a built-in protection circuit.
- **IP65 Waterproof Design:** Withstands extreme weather conditions, including heavy rain and snow, ensuring durability and uninterrupted service.
- **Easy Installation:** Features a 360-degree adjustable bracket for optimal positioning and signal reception.



Figure 3: Key Features Overview



Figure 4: IP65 Weatherproof Design



Figure 5: Solar Energy Power Supply Components

4. Setup Instructions

Follow these steps to set up your Orayafid Solar Outdoor Wi-Fi Repeater:

1. **Prepare the Antennas:**

   Ensure the antennas are correctly positioned for optimal signal. The following video demonstrates how to locate and adjust the antennas.

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   Video 1: How to Locate and Adjust the Antennas. This video demonstrates the correct positioning and adjustment of the repeater's antennas for optimal signal reception and transmission.

2. **Mounting the Repeater:**

   Use the provided mounting bracket and screw kit to securely attach the solar outdoor repeater in your desired location. The bracket allows for 360-degree adjustment to maximize solar exposure and Wi-Fi signal coverage.

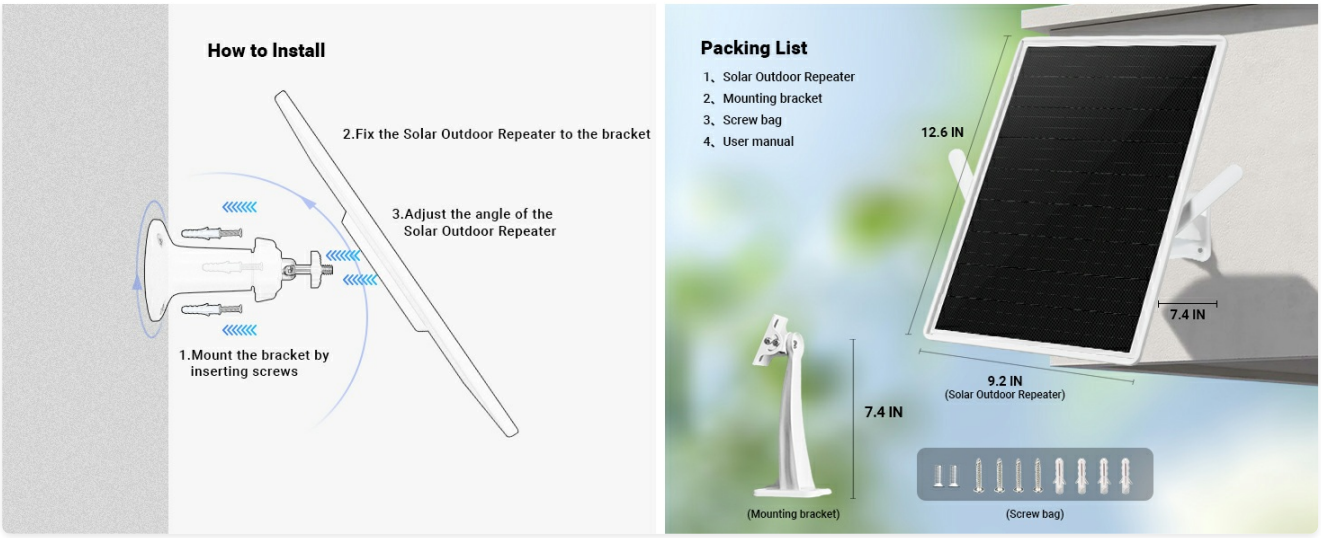


Figure 6: Mounting Instructions

3. **Initial Power-Up and Configuration:**

   For initial setup, ensure the device is charged or connected to a power source if needed. Follow the on-screen instructions in the setup video to connect to the repeater's Wi-Fi and configure it to extend your home router's network.

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Video 2: How to Set Up the Outdoor Wi-Fi Extender. This video guides you through the process of powering on the extender, connecting to its Wi-Fi, accessing the setup page, choosing a setup mode, and connecting to your main router.

4. **Optimizing Placement:**

   Place the repeater halfway between your router and the desired outdoor Wi-Fi dead zone. The location should be within the range of your router. Adjust the solar panel to receive maximum sunlight throughout the day.



Figure 7: Optimal Placement for Network Extension

5. Operating Instructions

Once set up, the Orayafid Solar Outdoor Wi-Fi Repeater will automatically extend your Wi-Fi network. Devices within its extended range can connect to the new network name (usually your original network name with an '_EXT' suffix) using your existing Wi-Fi password.

- **Connecting Devices:** Connect your Wi-Fi enabled devices (smartphones, tablets, cameras, laptops, etc.) to the extended network. The repeater supports connections for up to 8 devices simultaneously.
- **Signal Strength:** Monitor the signal strength on your connected devices to ensure optimal performance. If the signal is weak, consider adjusting the repeater's position or antenna angles.



Figure 8: Device Connectivity

6. Maintenance

To ensure the longevity and optimal performance of your solar outdoor Wi-Fi repeater, consider the following maintenance tips:

- **Solar Panel Cleaning:** Regularly clean the surface of the solar panel to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Physical Inspection:** Periodically check the mounting bracket and all connections for security and signs of wear or damage.
- **Software Updates:** Check the manufacturer's website for any available firmware updates to ensure your device has the latest features and security enhancements.

7. Troubleshooting

If you encounter issues with your Orayafid Solar Outdoor Wi-Fi Repeater, try the following steps:

- **No Power/Charging:** Ensure the solar panel is receiving adequate sunlight. Check for any obstructions. If the battery is completely depleted, it may take some time to charge sufficiently to power on.
- **Weak Signal/No Connection:**
  a. Verify the repeater is within range of your main router.
  b. Adjust the repeater's position and antenna angles for better signal reception.
  c. Ensure there are no major physical obstructions (thick walls, metal objects) between the router and the repeater, or between the repeater and your devices.
- **Setup Issues:** If you cannot access the setup page or connect to the repeater's initial Wi-Fi, try resetting the device to factory settings (refer to the device's physical reset button, if available, or the setup video for guidance).
- **Intermittent Connection:** This could be due to interference. Try changing the Wi-Fi channel on your main router if possible, or repositioning the repeater.

8. Specifications

Feature	Detail
Product Dimensions	12.6 x 9.1 x 7 inches
Item Weight	4.09 pounds
Model Number	YY-R7
Batteries	10 Lithium Ion batteries required (included)
Battery Capacity	20000mAh
Solar Panel Power	15W
Solar Conversion Efficiency	24%
Wi-Fi Frequency	2.4GHz
Max Wi-Fi Speed	300Mbps
Waterproof Rating	IP65
Manufacturer	Al MATCH INTELLIGENT TECHNOLOGY CO., LTD

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact Orayafid customer service directly. Keep your proof of purchase for warranty claims.

Manufacturer: Al MATCH INTELLIGENT TECHNOLOGY CO., LTD

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