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Orayafid YY-R7-A1

Orayafid YY-R7-A1 Outdoor Solar Wi-Fi Repeater Instruction Manual

1. Introduction

Thank you for choosing the Orayafid YY-R7-A1 Outdoor Solar Wi-Fi Repeater. This device is designed to extend your existing Wi-Fi network coverage outdoors, providing a stable and robust wireless signal. Featuring solar power capabilities and a high-capacity battery, it offers a reliable solution for eliminating Wi-Fi dead zones in outdoor environments. This manual provides essential information for proper installation, operation, and maintenance of your device.

2. Safety Information

- Read all instructions carefully before installation and use.
- Ensure the device is installed in a location with adequate direct sunlight for optimal solar charging.
- Do not attempt to open or modify the device. This may void the warranty and pose safety risks.
- Keep the device away from extreme heat sources or open flames.
- Use only the provided mounting hardware for installation.
- Ensure all connections are secure and waterproof caps are properly sealed to maintain IP65 rating.

3. Package Contents

Please verify that all items are present in your package:

- Outdoor Solar Wi-Fi Repeater (integrated solar panel)
- Mounting Bracket (adjustable)
- Screw Set (for installation)
- User Manual



Figure 3.1: Included components: Solar Wi-Fi Repeater, mounting bracket, and screw set.

4. Product Overview

The Orayafid YY-R7-A1 is an advanced outdoor Wi-Fi repeater designed for robust performance and durability. Key features include:

- **Total Amplification Function:** Extends existing Wi-Fi network range with speeds up to 300 Mbps at 2.4 GHz. Ideal for wireless security cameras, streaming, and general browsing.
- **High-Efficiency Solar Panel:** Equipped with a 15-watt high-power solar cell, achieving a 24% conversion rate. The solar cell is protected by durable tempered glass for outdoor resilience.
- **20,000 mAh Lithium Battery:** Features a high-quality rechargeable lithium battery ensuring extended operation, even during prolonged cloudy periods. The battery has a lifespan of up to 500 charge cycles and includes an integrated protection circuit.
- **IP65 Waterproof Design:** With an IP65 waterproof rating, the device can withstand extreme weather conditions such as heavy rain and snow, ensuring continuous functionality.
- **Easy Installation:** Includes a 360-degree adjustable bracket for quick and flexible positioning to optimize signal reception and transmission.
- **Multi-Device Connectivity:** Supports connection for up to 8 Wi-Fi enabled smart devices simultaneously.



Figure 4.1: The Orayafid YY-R7-A1 Solar Wi-Fi Repeater in an outdoor setting.



Figure 4.2: IP65 waterproof and dustproof capabilities.



Figure 4.3: Wi-Fi range extension up to 150 meters.



Figure 4.4: Connectivity for up to 8 smart devices.



Figure 4.5: Solar power supply system with 20,000 mAh battery.

5. Setup and Installation

Follow these steps for proper installation of your solar Wi-Fi repeater:

1. **Choose a Location:** Select an outdoor location that receives ample direct sunlight throughout the day for optimal solar charging. The location should also be within range of your existing Wi-Fi router and the area where you want to extend coverage.
2. **Mount the Bracket:** Secure the mounting bracket to a wall or pole using the provided screws. Ensure the bracket is firmly attached.
3. **Attach the Repeater:** Fix the solar Wi-Fi repeater to the mounting bracket.
4. **Adjust the Angle:** Adjust the angle of the solar panel to face the sun directly for maximum solar energy absorption. The 360-degree adjustable bracket allows for flexible positioning.
5. **Power On:** Once installed, the device will automatically begin charging via solar power and power on.
6. **Connect to Wi-Fi:** Refer to the separate quick start guide or the device's internal instructions for connecting the repeater to your existing Wi-Fi network. This typically involves a simple pairing process with your router.



Figure 5.1: Installation steps for the solar Wi-Fi repeater.

6. Operating Instructions

Once installed and connected to your main Wi-Fi network, the Orayafid YY-R7-A1 operates automatically to extend your wireless signal. Devices within the extended range will detect a stronger Wi-Fi signal from the repeater.

- **Automatic Operation:** The repeater will automatically connect to your router and broadcast an extended Wi-Fi signal.
- **Device Connection:** Connect your Wi-Fi enabled devices (smartphones, tablets, cameras, etc.) to the extended network as you would to any standard Wi-Fi network. The network name (SSID) may be the same as your main router or a new one created by the repeater, depending on its configuration mode.
- **Signal Strength:** For optimal performance, ensure the repeater is placed where it can receive a good signal from your main router while also providing coverage to the desired outdoor area.

7. Maintenance

To ensure the longevity and optimal performance of your Orayafid YY-R7-A1, follow these maintenance guidelines:

- **Solar Panel Cleaning:** Regularly clean the surface of the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean panel ensures maximum solar energy absorption.
- **Battery Care:** The integrated 20,000 mAh lithium battery is designed for durability. Avoid prolonged periods of complete discharge. Ensure the device receives sufficient sunlight to keep the battery charged.
- **Inspect Connections:** Periodically check all mounting hardware and cable connections to ensure they remain secure and waterproof.
- **Environmental Factors:** While the device is IP65 rated, extreme environmental conditions (e.g., prolonged heavy snowfall covering the solar panel) may temporarily affect performance. Clear any obstructions from the solar panel as soon as safely possible.

8. Troubleshooting

If you encounter issues with your Orayafid YY-R7-A1, refer to the following troubleshooting tips:

- **No Power/Device Not Turning On:**
  - Ensure the solar panel is receiving direct sunlight. The device requires sufficient solar exposure to charge its internal battery.
  - Check if the battery is completely depleted. Allow several hours of direct sunlight for initial charging.
- **Weak or Intermittent Wi-Fi Signal:**
  - Verify the repeater is within effective range of your main Wi-Fi router.
  - Adjust the repeater's position or angle to optimize signal reception from the router and transmission to your devices.
  - Ensure there are no major physical obstructions (thick walls, metal structures) between the repeater and your router or client devices.
- **Cannot Connect to the Repeater's Wi-Fi:**
  - Confirm the repeater is powered on and its indicator lights (if any) are functioning as expected.
  - Re-attempt the connection process between the repeater and your main router.
  - Check your device's Wi-Fi settings and ensure you are selecting the correct network name (SSID).
- **Slow Internet Speed:**

- While the repeater extends range, it may not be suitable for very high-bandwidth applications if the signal from the main router is already weak or if many devices are connected.
- Reduce the number of connected devices or move closer to the repeater for better performance.

9. Specifications

Feature	Specification
Brand	Orayafid
Model Number	YY-R7
Wireless Communication Standard	802.11bgn
Data Transfer Rate	300 Megabytes per second
Frequency Bands Supported	2.4 GHz
Special Feature	Waterproof (IP65)
Color	White
Compatible Devices	Wi-Fi Smart Devices
Battery Composition	Lithium-ion
Rechargeable Battery	Yes (20,000 mAh)
Power Source	Solar (15-watt panel, 24% conversion rate)
Connections	Integrated Wi-Fi, USB-C (for charging/data, if applicable)
UPC	607607521411

10. Warranty and Support

Warranty: This product is subject to a 30-day return policy for refunds or replacements. Specific warranty duration beyond this period is not explicitly provided in the product information. Please retain your proof of purchase for any warranty claims.

Support: For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller, Orayafid, directly through the platform where the product was purchased. They can provide the most accurate and up-to-date support information.

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