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› LIFEMOI 30W Solar Panel Outdoor Dual Band WiFi Repeater Extender Booster User Manual

LIFEMOI LIFEMOI-30W

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Model: LIFEMOI-30W

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your LIFEMOI 30W Solar Panel Outdoor Dual Band WiFi Repeater Extender Booster. This device is designed to extend WiFi coverage in outdoor environments, utilizing solar power for continuous operation.

2. SAFETY INFORMATION

- Ensure all connections are secure before powering on the device.
- Do not attempt to open or modify the device, as this may void the warranty and pose safety risks.
- Keep the device away from open flames or extreme heat sources.
- When mounting, ensure the device is securely fastened to prevent falling.
- Avoid direct exposure to lightning. The device offers 15KV ESD & 6KV Lightning Protection, but proper grounding is always recommended.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x WiFi Repeater Main Unit
- 2 x Solar Panels
- 1 x Rotatable Bracket
- 1 x Screw Package
- 1 x User Manual (Available in English, German, French, Spanish, Italian, and Arabic)

4. PRODUCT OVERVIEW

The LIFEMOI Solar WiFi Repeater integrates a WiFi extender with a solar power system. It features dual-band WiFi (2.4GHz and 5.8GHz) and is equipped with a 30W solar panel and a built-in 111Wh rechargeable battery for autonomous operation.



Figure 4.1: LIFEMOI 30W Solar WiFi Repeater Extender Booster with solar panels and antennas.

Key components include:

- **Main Unit:** Houses the WiFi repeater electronics, battery, and control interface.
- **Solar Panels:** Two 15W solar panels (total 30W) for charging the internal battery.
- **Antennas:** Multiple 9dBi antennas for enhanced signal transmission and reception.
- **NO/OFF Switch:** Power control for the main unit.
- **9V Charging Port:** For external charging if solar power is insufficient.
- **RST Button:** Reset button for factory default settings.
- **Battery Indicator:** Digital display showing battery charge level.



Figure 4.2: Close-up of the main unit's controls and indicators.

5. SETUP

5.1 Assembly

1. Attach the antennas to the designated ports on the main unit by screwing them clockwise until secure.
2. Connect the two solar panels to the main unit. Ensure the waterproof charging port on the solar panel is firmly pressed into place to ensure a full connection.
3. Mount the rotatable bracket to the main unit using the provided screws.
4. Install the assembled unit in your desired outdoor location. Consider optimal sunlight exposure for the solar panels and proximity to your main router for initial setup.

5.2 Initial Power-On and Placement

- Toggle the NO/OFF switch to the 'ON' position. The green power indicator light will illuminate.
- Wait approximately 60 seconds until the orange Wi-Fi indicator light illuminates. This indicates the device is ready for

configuration.

- For optimal performance, ensure the repeater is placed within 20 meters of your main router during initial pairing. The closer the distance, the stronger the signal. Avoid large obstacles between the router and the repeater.
- The best effect for WiFi coverage is achieved when the repeater is positioned horizontally or at a 45° angle, under unobstructed, open conditions.

30W Solar Panel WiFi Dual-band Repeater
2.4G+5G / 9dBi Antenna / WiFi 5 / 1200Mbps / 300m

2.4GHz 5GHz
984ft/300m

Ensure a full signal when pairing the repeater with the router
The best effect is achieved at horizontal or 45° angle

Easily achieve full-scenario network coverage

Figure 5.1: Example outdoor placement for WiFi extension near a pool.



Figure 5.2: Example outdoor placement for WiFi extension in a farm environment.

5.3 Charging

The device primarily charges via its integrated solar panels. For faster charging or in low-light conditions, connect a 9V charger to the 9V charging port on the main unit.

6. OPERATING INSTRUCTIONS

6.1 Connecting to the Repeater

1. On your mobile phone or computer, search for available WiFi networks.
2. Connect to the repeater's default SSID, typically named "Solar-Repeater-*****".
3. Once connected, the repeater will assign an IPv4 address via DHCP.

6.2 Configuration

1. Open a web browser on your connected device.

2. Enter the gateway IP address (e.g., **192.168.16.1**) into the address bar and press Enter. (*Note: Do not use 'repeater.cn' as indicated in some older manuals; use the gateway IP from your connection settings.*)
3. Log in using the default credentials (usually username: **admin**, password: **admin**). It is highly recommended to change the default password immediately for security.
4. Follow the on-screen instructions to select your home WiFi network (SSID) and enter its password.
5. Save the settings. The repeater will restart and connect to your main router, extending its signal.

6.3 Dual-Band Functionality

The repeater supports both 2.4GHz and 5.8GHz WiFi bands:

- **2.4GHz Band:** Offers wider coverage and better penetration through obstacles, suitable for smart outdoor devices and general use over longer distances.
- **5.8GHz Band:** Provides faster speeds and lower latency, ideal for HD streaming, online work, and devices requiring higher bandwidth.



Figure 6.1: Dual-band WiFi support and capacity for multiple devices.

7. MAINTENANCE

7.1 Weather Resistance

The device has an IP65 professional waterproof and dustproof rating, allowing it to operate reliably in various outdoor conditions, including rain, snow, high temperatures, and dusty environments.



Figure 7.1: IP65 Weatherproof design for outdoor durability.

7.2 Battery Management

Monitor the battery indicator. If the battery level drops below 9%, an "E1" error may be triggered, indicating that immediate charging is required to maintain operation.

7.3 Cleaning

Periodically clean the solar panels to ensure maximum efficiency. Use a soft, damp cloth to remove dust and debris. Do not use harsh chemicals or abrasive materials.

8. TROUBLESHOOTING

- **No Power/Device Not Turning On:** Ensure the NO/OFF switch is in the 'ON' position. Check the battery level. If low, charge the device via solar panels or the 9V charging port.
- **Orange Wi-Fi Indicator Not On:** After switching on, wait 60 seconds. If it still doesn't light up, try resetting the device.
- **Cannot Connect to Repeater's SSID:** Ensure the repeater is powered on and within range. Try restarting the repeater.
- **Cannot Access Configuration Page:** Ensure your device is connected to the repeater's SSID. Use the gateway IP address (e.g., 192.168.16.1) in your browser, not 'repeater.cn'.
- **Repeater Drops WiFi Connection:** Ensure your main router's network is stable. Place the repeater within 20 meters of the router, minimizing obstacles.
- **Resetting the Device:** If the device malfunctions or drops its WiFi connection unexpectedly, press and hold the main unit's RST button for 10 seconds, then release. Wait 30 seconds for the repeater to fully reset to factory defaults.

9. SPECIFICATIONS

Brand	LIFEMOI
Model Number	LIFEMOI-30W
Solar Panel Power	30W (2 x 15W Monocrystalline Silicon)
Battery Capacity	111Wh (30,000mAh at 3.7V or 15,000mAh at 7.4V)
WiFi Speed	Up to 1200Mbps
WiFi Bands	Dual Band (2.4GHz & 5.8GHz)
Antenna Gain	9dBi
Max Coverage	300 meters / 984 feet (unobstructed)
Device Support	Up to 100 devices simultaneously
Weatherproof Rating	IP65
Operating Temperature	-20°C to +70°C
Chipset	MTK7628NA2 (Supports OpenWrt system)
Item Weight	4.8 pounds

10. OFFICIAL PRODUCT VIDEOS

30 Watt Solar Panel WiFi Signal Booster

Your browser does not support the video tag.

This video provides an overview of the 30 Watt Solar Panel WiFi Signal Booster, highlighting its features and functionality. It demonstrates the product's design and potential applications.

WiFi Repeater with 300 Meters Coverage

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This video showcases the WiFi Repeater's capability to provide up to 300 meters of coverage, illustrating its effectiveness in various outdoor scenarios.

Dual Band 2.4G+5G WiFi Range Extender, 300m Coverage

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This video details the dual-band functionality (2.4G and 5G) of the WiFi Range Extender and its extensive 300-meter coverage, demonstrating its versatility.

30W Solar Panel Outdoor Dual Band 5.8G/2.4G WiFi Repeater

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This video provides a concise overview of the 30W Solar Panel Outdoor Dual Band WiFi Repeater, showcasing its key features and benefits for outdoor use.

11. WARRANTY AND SUPPORT

LIFEMOI provides warranty service for this product within 12 months from the date of purchase. For technical support, troubleshooting assistance, or warranty claims, please contact LIFEMOI customer service through the retailer where the product was purchased or refer to the contact information provided in the original product packaging.