

Cuifati Cuifationsdh21vtc-11

Cuifati 10W Solar Panel Charger Instruction Manual

Model: Cuifationsdh21vtc-11

Brand: Cuifati

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Cuifati 10W Solar Panel Charger. This solar panel is designed to provide continuous power to compatible Ring security cameras, ensuring uninterrupted surveillance without frequent battery changes.

Please read this manual thoroughly before installation and retain it for future reference.

2. PRODUCT OVERVIEW AND FEATURES

The Cuifati 10W Solar Panel Charger is engineered for outdoor use, offering a reliable and eco-friendly power solution for your security cameras.

- **Compatibility:** Compatible with Ring Spotlight Cam Battery and Ring Stick Up Cam Battery (2nd and 3rd generations). Not compatible with Ring cameras that do not use batteries. For cameras with a USB-C port, a cylindrical plug adapter is required (sold separately).
- **Safety and Efficiency:** Features a premium fireproof structure with built-in protection against overcurrent, overheating, overvoltage, and short circuits. Provides a maximum charging output of 6V 10W for continuous and rapid power delivery.
- **IP65 Weatherproof Design:** Constructed to withstand harsh outdoor conditions, including heavy snowfall and strong rain. The operating temperature range is 0°C to 50°C (32°F to 122°F).
- **Premium Material:** Made from high-efficiency monocrystalline silicon and lightweight, anti-aging ABS material. This construction ensures high light transmittance, improved conversion efficiency, and resistance to rust and deformation.



Figure 2.1: Front view of the Cuifati 10W Solar Panel Charger.



Figure 2.2: The solar panel charger providing continuous power to a security camera.



Figure 2.3: Close-up of the solar panel, highlighting its monocrystalline silicon and durable ABS material.

3. PACKAGE CONTENTS

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

- 1 x Cuifati 10W Solar Panel
- 1 x Adjustable Mounting Bracket
- 1 x Power Cable (with DC plug)
- 3 x Mounting Screws
- 3 x Wall Anchors



Figure 3.1: Contents of the Cuifati 10W Solar Panel Charger package.

4. SETUP AND INSTALLATION

Follow these steps to set up and install your solar panel charger:

4.1. Assembly

Attach the adjustable mounting bracket to the back of the solar panel. Ensure it is securely fastened to allow for proper angle adjustment.

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Video 4.1: Demonstration of assembling the solar panel with its mounting bracket.

4.2. Mounting Location Selection

Choose an outdoor location that receives direct sunlight for most of the day. Avoid areas with obstructions like trees, eaves, or buildings that could cast shadows on the panel. The panel should be positioned to face the sun directly for optimal charging efficiency.



Figure 4.2: Example of solar panel installation on a house exterior.

4.3. Installation Steps

1. Mark the desired mounting holes on the wall using the bracket as a template.
2. Drill pilot holes at the marked locations. Insert the wall anchors if installing on masonry or stucco.
3. Secure the mounting bracket to the wall using the provided screws.
4. Attach the solar panel (with the assembled bracket) to the wall mount.
5. Adjust the angle of the solar panel to maximize sun exposure.
6. Connect the power cable from the solar panel to your compatible Ring security camera. Ensure the connection is secure.



Figure 4.3: Quick and easy installation of the solar panel for continuous camera charging.



Figure 4.4: The IP65 waterproof solar panel and camera installed outdoors, shown under rainy conditions.

5. OPERATING INSTRUCTIONS

Once installed and connected, the solar panel will automatically begin charging your compatible Ring security camera when exposed to sunlight. The 6V 10W output ensures efficient and continuous power supply, reducing the need for manual battery recharging.

Ensure the solar panel remains free from dirt, dust, and debris to maintain optimal charging performance.



Figure 5.1: The solar panel providing power to a security camera.

6. MAINTENANCE

To ensure the longevity and optimal performance of your solar panel charger, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the surface of the solar panel with a soft, damp cloth to remove any accumulated dust, dirt, or debris. Avoid using abrasive cleaners or harsh chemicals.
- **Inspection:** Regularly inspect the power cable and connections for any signs of wear, damage, or corrosion. Ensure all connections remain secure.
- **Obstruction Removal:** Check for any new obstructions (e.g., growing tree branches, new installations) that might cast shadows on the panel and reduce its efficiency.
- **Weather Resistance:** The IP65 rating ensures resistance to rain and snow. However, in extreme weather conditions like heavy storms or hail, consider checking the panel for any physical damage afterward.

7. TROUBLESHOOTING

If your solar panel is not charging your camera effectively, consider the following:

- **No Charge/Slow Charge:**
 - **Sunlight Exposure:** Ensure the panel receives at least 3-4 hours of direct, unobstructed sunlight daily. Adjust the panel's angle if necessary.
 - **Obstructions:** Check for any shadows cast by trees, buildings, or other objects.
 - **Panel Cleanliness:** Clean the surface of the solar panel to remove dirt or debris that might be blocking sunlight.
- **Connection Issues:**
 - **Cable Connection:** Verify that the power cable is securely connected to both the solar panel and the camera.
 - **Compatibility:** Confirm that your camera model is compatible with this solar panel. For USB-C cameras, ensure the correct adapter is used.
- **Extreme Temperatures:** While designed for outdoor use, extreme temperatures outside the 0°C to 50°C (32°F to 122°F) operating range can affect performance.



Figure 7.1: Proper positioning of the solar panel for optimal sunlight exposure.

8. SPECIFICATIONS

Attribute	Specification
Brand	Cuifati
Model Number	Cuifationsdh21vtc-11
Maximum Power	10 Watt
Maximum Voltage	6 Volts
Output Current	800 mA
Power Connector Type	DC Power Plug
Upper Rated Temperature	50°C (122°F)
Efficiency	High
Weather Resistance	IP65
Material	Monocrystalline Silicon, ABS
Country of Origin	China

9. WARRANTY AND SUPPORT

This Cuifati solar panel charger comes with a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any inquiries regarding your product, please contact Cuifati customer service through your retailer or the official Cuifati support channels.