

ICAMI 742500063931

ICAMI IR Illuminator User Manual

Model: 742500063931
Brand: ICAMI

1. INTRODUCTION AND OVERVIEW

The ICAMI IR illuminator is designed to enhance night vision capabilities for CCTV cameras, IP cameras, and other surveillance equipment. It features 96 high-power infrared LEDs, providing robust illumination for clear night-time monitoring. This manual provides essential information for the proper installation, operation, and maintenance of your IR illuminator.

2. PRODUCT FEATURES

- **850nm Wavelength:** Equipped with a light sensor control that automatically activates the illuminator in low light environments.
- **Wide Angle Illumination:** Features a 45° view angle, optimized for use with 8mm camera lenses.
- **Durable Construction:** IP65 waterproof aluminum case suitable for both indoor and outdoor installations.
- **High Power LEDs:** Built-in 96pcs Ø5-12μ IR LEDs, providing an infrared range of up to 100-130ft (30-40 meters).
- **Power Input:** Supports 12V DC input voltage. Please note that the power adapter is not included.

3. PACKAGE CONTENTS

- ICAMI LED IR Illuminator x1

Note: A 12V DC/1A power adapter is required for operation and is not included in the package.

4. SPECIFICATIONS

Specification	Detail
Brand	ICAMI
Model Number	742500063931

Specification	Detail
IR LEDs	96pcs, Ø5-12μ IR light
LED Wavelength	850nm
Light Angle	45 degrees (Wide Angle)
IR Distance	100-130ft (30-40 meters)
Waterproof Rating	IP65
Structure	Aluminum case and reinforced glass window
Power Input	12V DC/1A (Power adapter NOT included)
Product Dimensions (L x W x H)	7.48" x 6.3" x 5.51"
Item Weight	1.15 pounds (approx. 520g)
Installation Type	Wall Mount
Indoor/Outdoor Usage	Outdoor, Indoor

5. SETUP AND INSTALLATION

Proper installation ensures optimal performance and longevity of your IR illuminator.

5.1 Unpacking

Carefully remove the IR illuminator from its packaging. Inspect the unit for any signs of damage during transit. If any damage is found, do not proceed with installation and contact customer support.

5.2 Mounting

The ICAMI IR illuminator is designed for wall mounting. Choose a location that provides the best line of sight for your security camera and is within reach of a power source.

1. Identify a suitable mounting surface (wall, eaves, pole).
2. Use the mounting bracket as a template to mark the drilling points.
3. Drill pilot holes if necessary, then secure the bracket to the surface using appropriate screws and anchors (not included).
4. Attach the IR illuminator to the mounted bracket. Adjust the angle of the illuminator to align with your camera's field of view.



Image: Rear view of the ICAMI IR Illuminator, highlighting the adjustable mounting bracket and the power cable connection point. This view is crucial for understanding how to position and secure the device.



Image: Back view of the ICAMI IR Illuminator, showing the robust aluminum casing and the integrated power cable. This perspective helps in visualizing the unit's compact design and cable management.

5.3 Power Connection

The illuminator requires a 12V DC/1A power adapter (not included). Ensure the power adapter is suitable for outdoor use if installing the illuminator outdoors.

1. Connect the 12V DC power adapter to the illuminator's power input cable.
2. Plug the power adapter into a suitable power outlet.
3. Once powered, the illuminator's light sensor will detect ambient light levels.

6. OPERATING INSTRUCTIONS

The ICAMI IR illuminator operates automatically based on ambient light conditions.

- **Automatic Activation:** The built-in light sensor detects when ambient light falls below a certain threshold (e.g., at dusk or in dark environments). The IR LEDs will then automatically turn on.
- **Automatic Deactivation:** When sufficient ambient light is detected (e.g., at dawn), the IR LEDs will automatically turn off.
- **Night Vision Enhancement:** The 850nm infrared light is invisible to the human eye but is highly effective for security cameras equipped with night vision capabilities, significantly extending their effective range in darkness.



Image: Angled front view of the ICAMI IR Illuminator, showcasing the array of 96 infrared LEDs behind the reinforced glass window. This is the primary light-emitting surface of the device.



Image: Direct front view of the ICAMI IR Illuminator, providing a clear look at the arrangement of the 96 individual infrared LEDs. This view emphasizes the density of the light source.



Image: A split image demonstrating the effectiveness of the IR illuminator. The top half shows a dark scene without IR light, while the bottom half shows the same scene clearly illuminated by the IR device, as seen through a night vision camera.

7. MAINTENANCE

The ICAMI IR illuminator is designed for low maintenance. However, periodic checks can help ensure optimal performance.

- **Cleaning:** Periodically clean the glass front of the illuminator with a soft, damp cloth to remove dust, dirt, or cobwebs that may obstruct the IR light. Do not use abrasive cleaners.
- **Cable Inspection:** Regularly inspect the power cable for any signs of wear, damage, or fraying, especially if installed outdoors. Ensure all connections are secure.
- **Mounting Stability:** Check the mounting bracket and screws periodically to ensure the illuminator remains securely fastened and its angle has not shifted.
- **Environmental Protection:** The IP65 rating provides protection against dust and water jets. While robust, avoid submerging the unit in water or exposing it to extreme pressure washing.

8. TROUBLESHOOTING

If you encounter issues with your IR illuminator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Illuminator does not turn on at night.	No power; Light sensor obstructed or detecting too much light; Faulty unit.	Check power connection and outlet. Ensure the 12V DC power adapter is functioning. Verify the light sensor is not covered and is in a dark environment. Test the unit in complete darkness.
Poor night vision enhancement.	Illuminator not aimed correctly; Distance too far; Camera not sensitive to 850nm IR; Obstruction on glass.	Adjust the illuminator's angle to match the camera's field of view. Ensure the distance to the target area is within the 100-130ft range. Confirm your security camera supports 850nm infrared. Clean the glass front of the illuminator.
Illuminator flickers or turns off intermittently.	Unstable power supply; Loose connection; Unit malfunction.	Check power adapter for stable output. Secure all power connections. If the issue persists, the unit may be faulty and require replacement.
Visible red glow from LEDs.	This is normal for 850nm IR LEDs.	850nm IR LEDs typically emit a faint red glow visible to the human eye, especially when viewed directly. This is not a malfunction. For completely invisible IR, a 940nm illuminator would be required, but cameras must support this wavelength.

9. WARRANTY INFORMATION

Specific warranty details for the ICAMI IR Illuminator are not provided in this manual. Please refer to the product packaging or the retailer's website where you purchased the product for applicable warranty terms and conditions. Keep your purchase receipt as proof of purchase.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this guide, or inquiries regarding your ICAMI IR Illuminator, please contact the retailer or the manufacturer directly. Contact information is typically available on the product packaging or the official brand website.

When contacting support, please have your product model number (742500063931) and purchase details ready.

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