LG Innotek LAD3200R

LG Innotek LAD3200R Security Camera User Manual

Model: LAD3200R

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your LG Innotek LAD3200R AHD 1080P HD Analog Mini IR Dome Security Camera. This camera is designed for both indoor and outdoor surveillance, offering high-definition video quality and robust performance in various environments.

Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the camera's lifespan.



Figure 1: LG Innotek LAD3200R AHD 1080P HD Analog Mini IR Dome Security Camera

2. Key Features

- **AHD IR Mini Dome Camera:** 1080P HD Analog IR Dome Camera with IP66 Rated Weatherproof Vandal Proof Housing for Indoor and Outdoor Use.
- **Imaging Sensor:** 6.23 mm (1/2.9 Type) CMOS Image Sensor for clear and detailed images.
- **Built-in Fixed Lens:** Equipped with a 4 mm F2.1 Fixed Lens for a consistent field of view.
- **High Sensitivity Camera with Built-in IR LED:** Features 24 IR LEDs for minimum illumination of 0 Lux when IR LEDs are active, enabling clear night vision.
- **Special Features:** Includes Digital WDR (Automatic Tone Control), Auto Gain Control, Auto 3D-DNR (Digital Noise Reduction), and IP66 rating for enhanced performance and durability.

3. Product Specifications

Specification	Detail
Model Number	LAD3200R
Video Capture Resolution	1080p
Imaging Sensor	6.23 mm (1/2.9 Type) CMOS
Lens	4 mm F2.1 Fixed Lens

IR LEDs	24 Built-in IR LEDs
Minimum Illumination	0 Lux @ IR LED on
International Protection Rating	IP66 (Weatherproof)
Connectivity Technology	Wired (CVBS Protocol)
Power Source	12 Volts (DC)
Mounting Type	Ceiling Mount
Dimensions (L x W x H)	3.66 x 3.66 x 2.67 inches
Item Weight	11.7 ounces (0.73 Pounds)
Color	White

4. Package Contents

Upon opening the package, please verify that all components are present and in good condition:

- LG Innotek LAD3200R Security Camera (1 unit)
- Mounting Hardware (screws, wall anchors)
- Quick Start Guide / User Manual (this document)
- Power Adapter (12V DC, may be sold separately or included depending on region/kit)

5. Installation Guide

5.1. Mounting Considerations

- **Location:** Choose a location that provides the desired field of view and is within reach of power and video cables. The camera is suitable for both indoor and outdoor use due to its IP66 rating.
- **Surface:** Ensure the mounting surface (ceiling or wall) is strong enough to support the camera's weight.
- **Height:** Mount the camera at a height that deters tampering while still providing optimal coverage.

5.2. Wiring Diagram

The LAD3200R camera uses standard BNC connectors for video output and a DC power jack for power input. Ensure your DVR/NVR system is compatible with AHD 1080P analog signals.



Figure 2: Camera Video and Power Connectors



Figure 3: Camera Mounting Base and Cable Exit

- Connect the **yellow BNC connector** from the camera to the video input port on your DVR/NVR using a coaxial cable.
- Connect the **red DC power jack** from the camera to a 12V DC power adapter.
- Ensure all connections are secure to prevent signal loss or power interruptions.

5.3. Physical Installation Steps

1. **Prepare the Mounting Surface:** Use the provided mounting template (if available) or the camera base to mark the drilling points for the screws.

2. **Drill Holes:** Drill pilot holes at the marked locations. If mounting on drywall or hollow surfaces, insert the provided wall anchors.
3. **Route Cables:** Pass the camera's video and power cables through the designated cable exit hole in the mounting surface or along the surface, ensuring they are protected from damage.
4. **Secure the Camera:** Align the camera's mounting holes with the drilled holes and secure the camera to the surface using the provided screws.
5. **Connect Cables:** Connect the video and power cables as described in Section 5.2.
6. **Adjust Camera Angle:** Loosen the adjustment screws on the camera's dome to position the lens for the desired viewing angle. Tighten the screws once the angle is set.

6. Operation

6.1. Initial Setup

- After physical installation and wiring, power on your DVR/NVR system and the camera's power adapter.
- Access your DVR/NVR's interface to view the live feed from the camera. Ensure the video input channel is correctly configured for AHD 1080P.
- Adjust the camera's physical angle as needed to optimize the field of view.

6.2. Video Output

- The camera outputs a 1080P AHD signal. Ensure your recording device (DVR/NVR) supports this resolution and signal type for optimal image quality.
- The camera features Digital WDR (Wide Dynamic Range) and 3D-DNR (Digital Noise Reduction) to enhance image clarity in challenging lighting conditions and reduce video noise. These features operate automatically.

6.3. Day/Night Functionality

- The camera automatically switches between day (color) and night (black and white with IR illumination) modes based on ambient light levels.
- The built-in 24 IR LEDs provide illumination for clear video capture in complete darkness, up to their effective range.

7. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your security camera.

- **Lens Cleaning:** Periodically clean the camera lens with a soft, lint-free cloth. For stubborn dirt, use a mild lens cleaning solution. Avoid abrasive materials that could scratch the lens.
- **Housing Cleaning:** Wipe the camera housing with a damp cloth to remove dust and dirt. Do not use harsh chemicals or solvents.
- **Cable Inspection:** Regularly check all cables and connections for signs of wear, damage, or corrosion. Ensure they remain securely connected.

- **Environmental Check:** For outdoor installations, ensure that no debris (e.g., leaves, spiderwebs) obstructs the camera's view or ventilation.

8. Troubleshooting

This section addresses common issues you might encounter with your camera.

Problem	Possible Cause	Solution
No video signal	No power to camera; Loose video cable; Incorrect DVR/NVR input settings; Incompatible DVR/NVR.	Check power adapter and connection; Ensure BNC cable is securely connected; Verify DVR/NVR input is set to AHD 1080P; Confirm DVR/NVR supports AHD 1080P.
Poor image quality (blurry/grainy)	Dirty lens; Insufficient lighting; Cable interference; DVR/NVR resolution setting.	Clean the camera lens; Ensure adequate lighting or check IR functionality; Use high-quality coaxial cables; Set DVR/NVR recording resolution to 1080P.
Night vision not working	IR LEDs obstructed; Power issue; Faulty IR sensor.	Clear any obstructions from the IR LEDs; Verify stable 12V DC power supply; Contact support if IR LEDs do not illuminate in darkness.
Camera not powering on	No power from adapter; Faulty power adapter; Loose power connection.	Check power outlet; Test power adapter with another device or replace; Ensure power cable is firmly connected to camera.

9. Warranty and Support

LG Innotek products are manufactured to high quality standards. This product is covered by a limited warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase or visit the official LG Innotek website for specific warranty terms and conditions.
For technical support, troubleshooting assistance, or warranty claims, please contact LG Innotek customer service:

- **Manufacturer:** LG Innotek
- **Website:** www.lginnotek.com (Please check for regional support contacts)

When contacting support, please have your camera model (LAD3200R) and purchase information readily available.

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