

HiLook IPC-B121H-C

HiLook IPC-B121H-C 2MP Bullet IP Camera User Manual

Model: IPC-B121H-C

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the HiLook IPC-B121H-C 2MP Bullet IP Camera. This camera is designed for surveillance applications, offering 2-megapixel resolution, a 2.8mm fixed lens, 30-meter infrared night vision, and an IP67 weather-resistant rating. It supports Power over Ethernet (PoE) for simplified installation and H.265+ video compression for efficient storage.

2. PRODUCT OVERVIEW

The HiLook IPC-B121H-C is a compact bullet-style IP camera. Familiarize yourself with its components before installation.



Image 2.1: Side view of the HiLook IPC-B121H-C 2MP Bullet IP Camera, showing the main body and integrated mounting bracket.



Image 2.2: Front view of the camera, highlighting the lens and infrared illuminators.

2.1 Package Contents

Upon unpacking, verify that all items are present:

- HiLook IPC-B121H-C IP Camera
- Mounting Screws and Wall Plugs
- Mounting Template
- Quick Start Guide (this manual)

2.2 Camera Components

- **Lens:** 2.8mm fixed lens for wide-angle viewing.
- **IR LEDs:** Infrared illuminators for night vision up to 30 meters.
- **Housing:** IP67-rated metal casing for outdoor protection.
- **Mounting Base:** Adjustable bracket for wall or ceiling installation.
- **Cables:** Integrated Ethernet (PoE) and power input cables.



Image 2.3: Angled view of the camera, showing the integrated cables for power and network connection.

3. SETUP

3.1 Mounting the Camera

1. **Select a Location:** Choose a suitable wall or ceiling location that provides the desired field of view and is within reach of network cabling. Ensure the surface can support the camera's weight.
2. **Use Mounting Template:** Affix the provided mounting template to the chosen surface. Drill pilot holes according to the template.
3. **Secure the Base:** Attach the camera's mounting base to the surface using the supplied screws and wall plugs.
4. **Adjust Angle:** Loosen the adjustment screws on the bracket to position the camera for optimal viewing. Tighten the screws once the desired angle is achieved.



Image 3.1: Side view of the camera, illustrating the adjustable mounting bracket.



Image 3.2: Bottom view of the camera, showing the mounting holes on the base and the cable entry point.

3.2 Wiring and Power

The camera supports Power over Ethernet (PoE) for simplified installation, allowing both power and data to be transmitted over a single Ethernet cable.

1. **PoE Connection:** Connect an Ethernet cable from a PoE-enabled switch or NVR to the camera's Ethernet port. This will provide both power and network connectivity.
2. **Alternative Power (if not using PoE):** If PoE is not available, connect a 12V DC power adapter (not included) to the camera's power input cable. Then, connect an Ethernet cable from your network to the camera's Ethernet port.



Image 3.3: Rear view of the camera, showing the Ethernet and power input cables.

3.3 Initial Configuration

After physical installation and power-up, configure the camera for network access and video settings.

1. **Network Connection:** Ensure the camera is connected to your local network.
2. **Software Installation:** Install the HiLook SADP Tool or client software on a computer connected to the same network.
3. **Activate Camera:** Use the SADP Tool to discover the camera. Activate it by setting a strong password.
4. **IP Address Configuration:** Assign a static IP address or enable DHCP for the camera using the SADP Tool or web interface.
5. **Access Web Interface:** Open a web browser and enter the camera's IP address to access its web interface. Log in with the newly set password.

4. OPERATING THE CAMERA

4.1 Live View

Access the live video feed from your camera through a web browser or compatible NVR/VMS software.

- **Web Browser:** Log into the camera's web interface. Navigate to the 'Live View' section to see the real-time video feed.
- **NVR/VMS:** Add the camera to your Network Video Recorder (NVR) or Video Management Software

(VMS) using its IP address and credentials.

4.2 Recording and Storage

Configure recording settings to capture and store video footage.

- **Recording Schedule:** Set up continuous recording or schedule recording based on specific times.
- **Motion Detection:** Configure motion detection zones and sensitivity to trigger recordings only when activity is detected.
- **Storage:** Recordings are typically stored on an NVR, a network-attached storage (NAS) device, or a local SD card (if supported by the camera model).

4.3 Playback

Review recorded footage to investigate events.

- **NVR/VMS Playback:** Use the playback function of your NVR or VMS to browse and view recorded video.
- **Web Interface Playback:** Some camera models allow direct playback of footage stored on an SD card via the web interface.

4.4 Night Vision

The camera automatically switches to infrared night vision in low-light conditions.

- **Automatic Activation:** Built-in sensors detect ambient light levels and activate the IR LEDs when necessary.
- **Range:** Provides clear black and white video up to 30 meters in complete darkness.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning ensures optimal performance and image quality.

- **Lens:** Gently wipe the lens with a soft, clean, lint-free cloth. For stubborn dirt, use a lens cleaning solution. Avoid abrasive materials.
- **Housing:** Clean the camera housing with a damp cloth. Do not use strong detergents or solvents.

5.2 Firmware Updates

Keep your camera's firmware updated to benefit from new features, performance improvements, and security patches.

- **Check for Updates:** Periodically visit the HiLook official website for the latest firmware versions for your specific model.
- **Update Procedure:** Follow the instructions provided with the firmware update package. Ensure a stable power supply during the update process to prevent damage.

5.3 Environmental Considerations

The camera is designed for outdoor use with an IP67 rating.

- **Temperature:** Operate the camera within its specified temperature range.
- **Moisture:** The IP67 rating protects against dust and water immersion up to 1 meter for 30 minutes.

Ensure all cable connections are properly sealed.

6. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

6.1 No Video Feed

- **Check Power:** Ensure the camera is receiving power, either via PoE or a 12V DC adapter.
- **Network Connection:** Verify the Ethernet cable is securely connected and the network is operational. Check network indicator lights on the camera and switch.
- **IP Address:** Confirm the camera's IP address is correct and not conflicting with other devices on the network. Use the SADP Tool to verify.

6.2 Poor Image Quality

- **Clean Lens:** Dust or smudges on the lens can degrade image quality. Refer to Section 5.1 for cleaning instructions.
- **Lighting Conditions:** Ensure adequate lighting. If in low light, verify IR LEDs are functioning.
- **Focus:** While this camera has a fixed lens, ensure it is not obstructed.

6.3 Network Access Issues

- **Ping Test:** From a computer on the same network, try to ping the camera's IP address to confirm network connectivity.
- **Firewall:** Ensure no firewall settings are blocking communication with the camera.
- **Router/Switch:** Restart your network router or switch.

6.4 Factory Reset

If issues persist, a factory reset may resolve them. Consult the HiLook support website or product documentation for the exact reset procedure for your model, as it often involves a physical button or specific software steps.

7. SPECIFICATIONS

Detailed technical specifications for the HiLook IPC-B121H-C 2MP Bullet IP Camera.

Feature	Specification
Model Number	IPC-B121H-C
Resolution	2 Megapixel (1080p)
Lens	2.8mm Fixed Lens
Night Vision Range	30 Meters (Infrared)
Ingress Protection (IP) Rating	IP67 (Dust and Water Resistant)
Video Compression	H.265+
Connectivity	Wired (PoE)

Protocol	ONVIF
Material	Metal
Dimensions (L x W x H)	15 x 5 x 15 cm
Weight	240 g
Mounting Type	Wall Mount