Seco-Larm EV-N2506-2W4WQ

Seco-Larm EV-N2506-2W4WQ Enforcer 5MP IP Turret Camera User Manual

Model: EV-N2506-2W4WQ

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Seco-Larm EV-N2506-2W4WQ Enforcer 5MP IP Turret Camera. Please read this manual thoroughly before using the product to ensure proper setup and functionality. Retain this manual for future reference.

Important Safety Information

Observe the following safety precautions to prevent damage to the product and ensure user safety:

- Ensure the power supply matches the camera's requirements (12VDC or PoE IEEE 802.3af).
- Do not expose the camera to extreme temperatures outside its operating range (-40°F to 131°F).
- Avoid direct exposure to water or moisture unless the camera is specifically rated for such conditions (IP66 weatherproof).
- Do not attempt to disassemble or modify the camera. Refer all servicing to qualified personnel.
- Mount the camera securely to prevent it from falling.

Package Contents

Verify that all items are present in the package:

- Seco-Larm EV-N2506-2W4WQ Enforcer 5MP IP Turret Camera
- Mounting hardware (screws, anchors)
- Quick Start Guide (if included)
- Waterproof connector for Ethernet cable

Note: A junction box is not included with this product and may be required for certain installations.

Product Overview

The Seco-Larm EV-N2506-2W4WQ is a 5MP IP turret camera designed for outdoor surveillance. It features a 1/2.7" CMOS sensor, a 2.8mm lens, and advanced imaging technologies for clear video capture.

Image 1: Front view of the Seco-Larm EV-N2506-2W4WQ Enforcer 5MP IP Turret Camera, showing the lens and IR illuminators.

Key Features:

- **High Resolution:** 5MP (2880 x 1620) at 30 frames per second.
- **Wide Angle Lens:** 2.8mm fixed lens.
- **Advanced Video Encoding:** H.265, H.264, and MJPEG triple stream.
- **Enhanced Imaging:** True Wide Dynamic Range (WDR) and 3D Digital Noise Reduction (3DNR).
- **Night Vision:** Smart IR with a range up to 98 feet (30m).
- **Weatherproof:** IP66 rated for outdoor use.

- **Power Options:** Power over Ethernet (PoE IEEE 802.3af) or 12VDC.
- **Local Storage:** MicroSD card slot (up to 512GB).
- **AI Functions:** Includes face detection, human & vehicle detection, perimeter intrusion, line crossing, and more.

Setup and Installation

1. Mounting the Camera

The camera is designed for ceiling mount installation. Ensure the mounting surface is strong enough to support the camera's weight.

1. Choose a suitable location for optimal surveillance coverage, considering the 98-foot IR range for night vision.
2. Use the provided mounting template (if available) or the camera base to mark drill holes on the mounting surface.
3. Drill pilot holes and insert wall anchors if necessary.
4. Route the Ethernet cable through the mounting surface or a conduit.
5. Secure the camera base to the mounting surface using the provided screws.
6. Adjust the camera's angle and orientation as needed.

Image 2: Side view of the Seco-Larm EV-N2506-2W4WQ Enforcer 5MP IP Turret Camera, illustrating its turret form factor suitable for adjustable positioning.

2. Power and Network Connection

The camera supports two power options: Power over Ethernet (PoE) or a 12VDC power adapter (not included).

- **PoE Connection:** Connect an Ethernet cable from a PoE-enabled switch or NVR to the camera's RJ45 port. This provides both power and data.
- **12VDC Connection:** If not using PoE, connect a 12VDC power adapter (minimum 1A, center positive) to the camera's power input jack. Then, connect an Ethernet cable from your network to the camera's RJ45 port for data.
- Ensure the Ethernet cable is properly connected and secured, especially if using the waterproof connector for outdoor installations.

Operation

1. Initial Access and Network Configuration

After connecting the camera to your network, you will need to discover and configure it using a compatible NVR or IP camera management software.

- Use the manufacturer's IP camera tool or your NVR's discovery function to find the camera on the network.
- The camera will likely have a default IP address or obtain one via DHCP. You may need to change its IP address to a static one within your network's range.
- Access the camera's web interface via a web browser using its IP address. Log in with the default username and password (refer to the Quick Start Guide or manufacturer's documentation for defaults).
- *It is highly recommended to change the default password immediately for security purposes.*

2. Video Settings

Configure video parameters through the camera's web interface or NVR settings:

- **Resolution:** Set to 2880 x 1620 (5MP) for maximum clarity, or lower for reduced bandwidth/storage.
- **Frame Rate:** Up to 30FPS for smooth video.
- **Encoding:** Select H.265 for efficient compression, H.264 for broader compatibility, or MJPEG.
- **WDR (Wide Dynamic Range):** Enable for scenes with high contrast (e.g., bright background, dark foreground).
- **3DNR (Digital Noise Reduction):** Enable to reduce video noise in low-light conditions.
- **Day/Night Mode:** Configure automatic switching or manual control for the True Day & Night function with ICR module. Adjust ICR sensitivity as needed.
- **Corridor Mode:** If monitoring a vertical area, enable corridor mode to optimize the aspect ratio.

3. Smart IR Configuration

The camera features Smart IR technology to prevent overexposure of objects close to the camera in low light.

- Smart IR automatically adjusts the intensity of the infrared LEDs based on the distance of objects in the field of view.
- Ensure Smart IR is enabled in the camera settings for optimal night vision performance up to 98 feet.

4. AI Functions

The camera includes advanced Artificial Intelligence (AI) features for enhanced surveillance and event detection:

- **Face Detection:** Detects human faces within the camera's view.
- **Human & Vehicle Detection:** Differentiates between humans, vehicles, and other motion.
- **Perimeter Intrusion Detection:** Triggers an alert when an object crosses a predefined virtual boundary.
- **Line Crossing Detection:** Detects objects crossing a specific virtual line.
- **Stationary Object Detection:** Identifies objects that remain in a specific area for a set duration.
- **Cross Counting:** Counts objects crossing a virtual line in a specified direction.
- **Heat Map:** Visualizes areas of high activity over time.
- **Crowd Density Detection:** Estimates the number of people in a designated area.
- **Queue Length Detection:** Monitors the length of queues in specific zones.

Refer to the camera's web interface or NVR manual for detailed configuration of each AI function, including setting detection zones, sensitivity, and alert actions.

5. MicroSD Card Storage

The camera supports a MicroSD card up to 512GB for local video storage.

- To install, carefully open the camera housing (if accessible) and insert the MicroSD card into the designated slot.
- Format the MicroSD card through the camera's web interface before use.
- Configure recording schedules and event-triggered recording to the MicroSD card as desired.

Maintenance

1. Cleaning

- Regularly clean the camera lens and housing with a soft, damp cloth to remove dust and dirt.
- Do not use harsh chemicals or abrasive cleaners, as these can damage the lens coating or housing.

2. Firmware Updates

- Check the Seco-Larm website periodically for firmware updates.
- Firmware updates can improve performance, add new features, or address security vulnerabilities.
- Follow the instructions provided with the firmware update package carefully.

3. Environmental Considerations

- While the camera is IP66 weatherproof, ensure proper drainage around the mounting area to prevent water accumulation.
- Avoid mounting the camera in direct sunlight for prolonged periods if possible, as this can affect image quality and component lifespan.

Troubleshooting

Problem	Possible Cause	Solution
No video feed	No power; Network cable disconnected; Incorrect IP address; NVR/Software issue.	Check power supply (PoE or 12VDC). Verify network cable connection. Ensure camera IP address is correct and accessible. Restart NVR/software.
Poor image quality	Dirty lens; Incorrect resolution/encoding settings; Low light without IR; Backlight issues.	Clean the lens. Adjust resolution and encoding settings. Ensure Smart IR is enabled for low light. Enable WDR for high-contrast scenes.
Night vision not working	IR LEDs off; Smart IR disabled; Obstruction.	Check camera settings to ensure IR is enabled. Verify Smart IR functionality. Remove any obstructions in front of the IR LEDs.
Cannot access web interface	Incorrect IP address; Network connectivity issue; Firewall blocking access.	Verify camera's IP address. Ping the camera's IP address. Check network cables and router settings. Temporarily disable firewall on your PC.
AI functions not triggering	Incorrect configuration; Sensitivity too low; Detection zones not set.	Review AI function settings in the web interface. Adjust sensitivity and ensure detection zones are correctly defined.

Specifications

Feature	Detail
Model	EV-N2506-2W4WQ
Image Sensor	1/2.7" 5MP SmartSens CMOS Sensor
Max Resolution	2880 x 1620 (5MP)
Frame Rate	30FPS@5MP
Lens	2.8mm Fixed Lens
Video Compression	H.265, H.264, MJPEG (Triple Stream)
Wide Dynamic Range (WDR)	True WDR
Digital Noise Reduction	3DNR
Day/Night Function	True Day & Night with ICR Module
IR Range	Up to 98 feet (30m) with Smart IR
Weatherproof Rating	IP66
Operating Temperature	-40°F ~ 131°F (-40°C ~ 55°C)
Power Input	PoE (IEEE 802.3af Class 0), 12VDC
Power Consumption	<6W
Local Storage	MicroSD slot (512GB max)
AI Functions	Face detection, Human & vehicle detection, Perimeter intrusion, Line crossing, Stationary object, Cross counting, Heat map, Crowd density, Queue length detection
Dimensions	3-15/16" x 3-9/16"
Weight	13.05oz (370g)
Connectivity Technology	Wired (Ethernet, PoE)
Wireless Communication Technology	RTSP (Real Time Streaming Protocol)
ONVIF Support	Profiles G, S, and T conformant

Warranty and Support

Seco-Larm products are typically covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Seco-Larm website.
For technical support, troubleshooting assistance, or service inquiries, please contact Seco-Larm customer support through their official channels. Contact information can usually be found on the product packaging or their website.
Please have your product model number (EV-N2506-2W4WQ) and purchase information ready when contacting support.

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