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› Seco-Larm DRN-K116-12 Enforcer NVR and Camera Kit User Manual

Seco-Larm DRN-K116-12

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Model: DRN-K116-12

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Seco-Larm DRN-K116-12 Enforcer NVR and Camera Kit. This kit includes one DRN-116-4TB Network Video Recorder (NVR) with a 4TB Hard Disk Drive (HDD) and twelve EV-N2506-2W4WQ 5MP Turret Cameras. Please read this manual thoroughly before use to ensure proper setup and functionality.

2. PACKAGE CONTENTS

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

- 1x DRN-116-4TB Network Video Recorder (NVR) with 4TB HDD
- 12x EV-N2506-2W4WQ White 5MP Turret Cameras
- Power Adapter for NVR
- USB Mouse
- Ethernet Cable
- Mounting Hardware for Cameras
- Quick Start Guide (if applicable)



Figure 1: Overview of the Seco-Larm DRN-K116-12 Enforcer NVR and Camera Kit, showing the NVR unit and twelve turret cameras.

3. NVR FEATURES

The DRN-116-4TB NVR offers advanced features for reliable video surveillance:

- Compatible with 8MP (4K) IP Cameras
- Wizard assistance for easy first-time setup
- Plug-and-Play functionality
- Built-in PoE ports (IEEE 802.3af/at) for direct camera connection
- VGA and HDMI outputs with up to 4K resolution support
- Includes one 4TB HDD, supports up to 2 HDDs
- Easy app setup with QR code for remote access
- Tri-stream encoding
- Live view, recording, and playback up to 4K@45FPS
- P2P for simple remote connections using PC or mobile device
- 8 Sensor inputs, 1 alarm relay output
- 9 AI functions including human and vehicle detection (additional functions with EV-N2806-2W4WQ 8MP Turret Camera)



Figure 2: Front view of the DRN-116-4TB Network Video Recorder (NVR), showing power and HDD indicators, and a USB port.

4. CAMERA FEATURES

The EV-N2506-2W4WQ 5MP Turret Cameras provide high-quality surveillance:

- 1/2.7" 5MP SmartSens CMOS sensor
- 30FPS@5MP (2880 x 1620) resolution
- 2.8mm fixed lens
- Supports H.265, H.264, and MJPEG video compression
- True Wide Dynamic Range (WDR) for clear images in varying light conditions
- Digital Noise Reduction (3DNR)
- True Day & Night function with ICR module
- IP66 Weatherproof rating for outdoor use
- IR Range up to 98 feet (30 meters)
- Profile G, S, and T conformant
- Smart IRs adjust IR strength to conditions, preventing overexposure



Figure 3: Close-up view of an EV-N2506-2W4WQ 5MP Turret Camera, highlighting its lens and infrared LEDs.

5. AI FUNCTIONS

The NVR supports various Artificial Intelligence (AI) functions for enhanced monitoring and alerts:

- Face detection
- Human & vehicle detection
- Perimeter intrusion detection
- Line crossing detection
- Stationary object detection
- Cross counting
- Heat map generation
- Crowd density detection
- Queue length detection

6. SETUP GUIDE

6.1 Initial Connection

1. **Connect Monitor:** Connect a monitor to the NVR's HDMI or VGA output port.
2. **Connect Mouse:** Plug the included USB mouse into a USB port on the NVR.
3. **Network Connection:** Connect the NVR to your local network using an Ethernet cable.
4. **Power On:** Connect the NVR's power adapter and plug it into an electrical outlet. The NVR will power on automatically.
5. **Initial Setup Wizard:** Upon first boot, the NVR will launch a setup wizard to guide you through basic configurations, including language, date/time, network settings, and password creation.

6.2 Camera Installation and Connection

1. **Mount Cameras:** Select appropriate locations for your cameras, ensuring optimal viewing angles and coverage. Use the provided mounting hardware to securely install each camera.
2. **Connect Cameras to NVR:** Connect each camera to one of the NVR's built-in PoE ports using Ethernet cables. The NVR will automatically detect and power the cameras.
3. **Camera Configuration:** The NVR's wizard or camera management interface will allow you to configure each camera, including naming, motion detection zones, and image settings.

7. OPERATING INSTRUCTIONS

7.1 Live View

After setup, the NVR will display the live feed from all connected cameras on the monitor. You can switch between single-camera view, multi-camera grid view, and customize display layouts using the NVR's interface.

7.2 Recording

The NVR is configured to record video to the internal 4TB HDD. Recording can be set to continuous, scheduled, or triggered by motion detection or AI events. Access the recording settings through the NVR's main menu.

7.3 Playback

To review recorded footage, navigate to the playback menu. You can search for recordings by date, time, camera, and event type. The NVR supports simultaneous playback of multiple channels.

7.4 Remote Access (P2P)

The NVR supports P2P (Peer-to-Peer) functionality for easy remote access via a mobile app or PC software. Scan the QR code displayed on the NVR's interface (usually found in network settings) with the designated mobile app to establish a connection. This allows you to view live feeds, play back recordings, and manage settings from anywhere with an internet connection.

8. MAINTENANCE

8.1 Hard Drive Management

The NVR is equipped with a 4TB HDD. Ensure the HDD is functioning correctly by regularly checking its status in the NVR's system settings. The NVR will automatically overwrite the oldest recordings when the HDD is full. You can configure recording retention policies as needed.

8.2 Cleaning

Periodically clean the camera lenses with a soft, damp cloth to ensure clear image quality. For the NVR, ensure proper ventilation and keep it free from dust accumulation. Do not use harsh chemicals or abrasive cleaners.

8.3 Firmware Updates

Check the Seco-Larm official website periodically for firmware updates. Keeping your NVR and cameras updated ensures optimal performance, security, and access to new features.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor	NVR not powered on; Monitor not connected or powered; Incorrect input selected on monitor.	Check NVR power adapter; Ensure monitor is powered and connected; Select correct input source on monitor.
No camera feed	Camera not powered; Ethernet cable loose or faulty; Camera not detected by NVR.	Check PoE connection to camera; Ensure Ethernet cable is securely connected; Restart NVR; Manually add camera if necessary.
Cannot access NVR remotely	NVR not connected to network; P2P service not enabled; Incorrect app settings.	Verify NVR network connection; Enable P2P in NVR settings; Re-scan QR code in mobile app.
Poor image quality	Dirty camera lens; Insufficient lighting; Camera resolution settings.	Clean camera lens; Ensure adequate lighting or enable IR; Check camera resolution settings in NVR.

10. SPECIFICATIONS

Feature	Description
Model Number	DRN-K116-12
Brand	Seco-Larm
NVR Channels	12
NVR HDD Capacity	4 TB (expandable to 2 HDDs)
Camera Resolution	5MP (2880 x 1620)
Camera Lens	2.8mm
Video Compression	H.265, H.264, MJPEG
NVR Video Output	VGA, HDMI (up to 4K)
PoE Support	IEEE 802.3af/at (Built-in)
Camera Weatherproof Rating	IP66
Camera IR Range	98 feet (30 meters)

Feature	Description
Power Supply	48VDC@3.75A
Power Consumption	8W (NVR)
Dimensions (WxDxH)	14-7/8" x 13-3/8" x 2" (NVR)
Item Weight	25.3 pounds (Total Kit)
Connectivity Technology	Wired
Low Light Technology	Night Vision
UPC	761373838613

11. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Seco-Larm website. Technical support is available through Seco-Larm's customer service channels. Please have your model number (DRN-K116-12) and purchase information ready when contacting support.

Seco-Larm Official Website: www.seco-larm.com