

Lorex N4K3-1612WB

Lorex 16-Channel Fusion NVR System N4K3-1612WB User Manual

Model: N4K3-1612WB

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Lorex 16-Channel Fusion Network Video Recorder (NVR) System, model N4K3-1612WB. This system includes a 16-channel NVR and twelve 4K (8MP) IP cameras designed for comprehensive surveillance. The NVR supports Lorex Fusion technology, allowing integration with select Wi-Fi devices and accessory alarm sensors.



Figure 1: Lorex 16-Channel Fusion NVR System with 12 4K IP Cameras. This image displays the NVR unit at the bottom and twelve white bullet-style 4K IP cameras arranged above it, showcasing the complete surveillance system.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, contact Lorex support.

- 1 x 16-Channel Fusion Network Video Recorder (NVR)
- 12 x 4K (8MP) IP Bullet Cameras
- 1 x NVR Power Adapter
- 12 x Ethernet Cables (for cameras)
- 1 x HDMI Cable
- 1 x USB Mouse
- Mounting Hardware for Cameras
- Quick Start Guide (digital version available online)

3. SYSTEM OVERVIEW

3.1 Network Video Recorder (NVR)

The NVR is the central recording and management unit for your surveillance system. It features multiple Power over Ethernet (PoE) ports for direct camera connection and power supply.



Figure 2: Lorex NVR Rear Panel. This image shows the back of the NVR unit, highlighting various ports including 16 PoE ports, HDMI, VGA, USB, Ethernet, audio input/output, and power input.

Key NVR Ports and Indicators:

- **PoE Ports:** Connect IP cameras directly. These ports provide both power and data.
- **HDMI/VGA Output:** Connect to a monitor or TV for local viewing.
- **USB Ports:** For mouse, USB backup devices, or firmware updates.
- **Ethernet Port:** Connect to your router for network access and remote viewing.
- **Audio In/Out:** For connecting external audio devices (if supported by specific camera models).
- **Power Input:** Connect the NVR power adapter.

3.2 4K (8MP) IP Cameras

The included IP cameras capture video at 4K (8-megapixel) resolution, providing detailed images. They feature Color Night Vision technology for enhanced low-light performance.



Figure 3: Lorex 4K IP Bullet Camera Front View. This image shows a white bullet-style IP camera from the front, highlighting the lens and infrared illuminators.



Figure 4: Lorex 4K IP Bullet Camera Mounted View. This image displays a white bullet-style IP camera mounted on a surface, showing its adjustable bracket and overall profile.

Camera Features:

- **4K (8MP) Resolution:** Provides high-definition video for clear detail.
- **Color Night Vision:** Delivers full-color video in low-light conditions with ambient light.

- **Weatherproof Housing:** Suitable for outdoor installation.
- **PoE Connectivity:** Receives power and data through a single Ethernet cable.

4. SETUP

4.1 Initial NVR Connection

1. **Connect Monitor:** Connect an HDMI or VGA cable from the NVR's corresponding port to a monitor or TV.
2. **Connect Mouse:** Plug the USB mouse into any USB port on the NVR.
3. **Connect Network:** Connect an Ethernet cable from the NVR's Ethernet port to your router or network switch.
4. **Connect Power:** Plug the NVR power adapter into the NVR's power input, then into a power outlet. The NVR will power on automatically.

4.2 Camera Installation

1. **Connect Cameras:** Connect each IP camera to an available PoE port on the NVR using the provided Ethernet cables. The cameras will power on automatically.
2. **Mounting Location:** Choose a suitable location for each camera, ensuring a clear field of view and adequate lighting. Avoid direct sunlight or strong light sources pointing into the lens.
3. **Secure Mounting:** Use the provided mounting hardware to securely attach the cameras to walls or ceilings. Adjust the camera angle as needed.

4.3 Initial NVR Configuration

Upon first power-up, the NVR will guide you through a setup wizard on the connected monitor.

- **Create Password:** Set a strong password for the NVR administrator account.
- **Time and Date:** Configure the correct time zone, date, and time settings.
- **Network Settings:** Confirm network connectivity. The NVR typically obtains an IP address automatically via DHCP.
- **Hard Drive Initialization:** The NVR's internal hard drive may require initialization before recording can begin. Follow on-screen prompts.

5. OPERATING THE SYSTEM

5.1 Live View

After initial setup, the NVR will display the live video feeds from all connected cameras on the monitor. You can switch between single-camera view, multi-camera grid view, and sequence view using the NVR's interface and mouse.

5.2 Recording Settings

The NVR supports various recording modes:

- **Continuous Recording:** Records 24/7.
- **Motion Detection Recording:** Records only when motion is detected in the camera's field of view. This conserves hard drive space.
- **Schedule Recording:** Configures specific times for continuous or motion-based recording.

Access the NVR's menu (right-click with mouse) to configure recording schedules and motion detection zones for each camera.

5.3 Playback

To review recorded footage:

1. From the live view, right-click and select "Playback" or navigate through the main menu.
2. Select the desired camera(s) and date/time range.
3. Use the timeline to navigate through recorded events.

5.4 Remote Access

For remote viewing on mobile devices or computers:

- Download the Lorex Home app (or specified Lorex app) from your device's app store.
- Create an account and add your NVR by scanning the QR code on the NVR or entering its device ID.
- Ensure your NVR is connected to the internet.

6. MAINTENANCE

6.1 Hard Drive Management

The NVR is configured to automatically overwrite the oldest recordings when the hard drive is full. Regularly back up important footage to a USB drive or network storage if needed.

6.2 Firmware Updates

Periodically check the Lorex support website for firmware updates for your NVR and cameras. Firmware updates can provide new features, improve performance, and address security vulnerabilities. Follow the instructions provided with the update package carefully.

6.3 Cleaning

- **Cameras:** Gently wipe camera lenses with a soft, damp cloth to remove dust or smudges. Avoid abrasive cleaners.
- **NVR:** Keep the NVR unit in a well-ventilated area. Periodically clean dust from the vents using compressed air.

7. TROUBLESHOOTING

7.1 No Video Display on Monitor

- Ensure the monitor is powered on and set to the correct input source (HDMI/VGA).
- Check that the HDMI/VGA cable is securely connected to both the NVR and the monitor.
- Verify the NVR is powered on (power indicator light should be active).

7.2 Cameras Not Displaying Video

- Ensure Ethernet cables are securely connected between the cameras and the NVR's PoE ports.
- Check the status indicator lights on the NVR's PoE ports (if available) to confirm power and data activity.
- Restart the NVR.

7.3 Remote Access Not Working

- Verify the NVR is connected to your router and has internet access. Check the network status in the NVR's settings.
- Ensure your mobile device has a stable internet connection.

- Confirm that the NVR is correctly added to your Lorex Home app account.

7.4 Forgotten Password

Refer to the Lorex support website or contact Lorex technical support for instructions on password recovery or reset procedures for your specific NVR model.

8. SPECIFICATIONS

Feature	Detail
Brand	Lorex
Model Number	N4K3-1612WB
Number of Channels	16
Video Capture Resolution	4K (2160p)
Memory Storage Capacity	3 TB (Internal Hard Drive)
Connectivity Technology	Wired (PoE for cameras), Wireless (Fusion for Wi-Fi devices)
Special Feature	Night Vision (Color Night Vision)
Recording Mode	Motion Detection, Continuous, Schedule
Video Input	HDMI, VGA
Power Source	Corded Electric
Product Dimensions	24 x 18 x 18 inches (System Packaging)
Item Weight	49.9 pounds (System)
UPC	695529034645

9. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please visit the official Lorex support website. You can find FAQs, troubleshooting guides, and contact information for customer service.

Lorex Support Website: www.lorex.com/support

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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