# R3 Starter Series NVR, 4K 8 Channel, 8 PoE

R32-8PA




TECHNOLOGY INSIDE LumiCloud

## Key Features

- 4K NVR
- Eight (8) Channels With Two (2) SATA Ports
- HDMI and VGA Output
- PoE Plug-and-Play
- LumiCloud Lite Included and Optional Upgrade With LumiCloud HD Video Unity Channel Annual Subscription License[1]
- Supports Analytics by Camera

## Certifications and Compliance

- NDAA Compliant
- FCC
- ONVIF

## Learn More

Learn more about this product's key technologies.

## Overview

The **R32-8PA** is part of Luminys's Starter series of devices. Starter series devices are designed with a curated selection of technologies and features to provide high-quality security without unnecessary or complicated add-ons.

## Key Technologies

**Analytics by Camera** includes Intelligent Motion Detection (iMD), Video Content Analysis (VCA), Face Detection, Face Recognition, and Video Metadata by Camera. The analytical metadata is created by the Luminys cameras at the time the video is encoded. The NVR leverages these camera-edge analytics to create smarter video for the end-user to ease their video searching, authentication and video capabilities.

**License Plate Recognition (LPR)** technology is supported by Luminys LPR cameras. This technology improves safety and operational efficiency by automatically capturing and reading vehicle license plates for easy and accurate identification.

**LumiViewer** streamlines security management by providing real-time surveillance, playback of historical footage, and instant alarm notifications. With features like device sharing, an alarm hub for safety alerts, visual intercom for video calls and door control, and remote access management, LumiViewer ensures comprehensive and efficient monitoring. The platform is available for desktop and mobile devices.

**LumiCloud** is a Video Surveillance as a Service (VSaaS) solution powered by a variety of algorithms that provides the ability to search, receive alerts and analyze patterns of detections across locations and historical data. Data is centrally stored in the cloud with easy access from web browsers and smart phone apps. LumiCloud supports high-resolution video streams, ensures clarity, and provides real-time access from anywhere. This platform provides advanced analytics, customizable alerts, effective bandwidth management, and simple subscription-based scalability. LumiCloud Lite is included with this NVR and offers many of the LumiCloud key features, however cloud recording does require an upgrade to LumiCloud with a paid subscription.

# Specifications

## Video

| | |
|---|---|
| Video Input | Eight (8) Channels |
| Recording Resolutions | 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF |
| Output Resolutions | **HDMI:** 4K (3840 × 2160), 1920 × 1080, 1280 x 1024, 1280 x 720<br>**VGA:** 1920 × 1080, 1280 x 1024, 1280 x 720 |
| Live View/Playback Resolutions | 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF |

## Decoding

| | |
|---|---|
| Format | H.265, H.264, H.264H, H.264B, MJPEG |
| Capability | **Two (2) Channel:** 8MP at 30 fps<br>**Eight (8) Channel:** 1080p at 30 fps |
| Synchronous Playback | 1, 4, 8 Views |

## Supported Analytics by Camera

| | |
|---|---|
| Intelligent Motion Detection | Eight (8) Channels |
| Video Content Analytics (VCA) | Eight (8) Channels |
| Face Detection | Four (4) Channels |
| License Plate Recognition | Four (4) Channels |
| Smart Search | Search by Target Classification, Pictures by Channel, Time, and Event Type |

## Interface

| | |
|---|---|
| SATA | Two (2) Ports |
| HDD | Up to 10 TB per HDD |
| Network | One (1) Port (RJ-45 Self-Adaptive Ethernet (10/100/1000 Mbps)) |
| PoE | Eight (8) Ports (RJ-45 Self-Adaptive Ethernet (10/100 Mbps)) |
| USB | **Front Panel:** One (1) USB 2.0 Port<br>**Rear Panel:** One (1) USB 2.0 Port |
| Alarm | **Input:** Four (4) Channels<br>**Output:** Two (2) Channels |
| Audio | **Input:** One (1) RCA Channel<br>**Output:** One (1) RCA Channel |

## Network

| | |
|---|---|
| Bandwidth | **Incoming/Recording:** 160 Mbps<br>**Outgoing:** 60 Mbps |
| Protocol | HTTP, HTTPS, TCP/IP, IPv4, IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS |
| Interoperability | ONVIF, RTSP |
| PoE Standard | IEEE 802.3 af/at |
| Client | LumiViewer, LumiViewer Mobile App, LumiCloud |

## Electrical

| | |
|---|---|
| Power Supply | 100-240 V, 47-63 Hz. 3.5 A |
| Power Consumption | < 10 W (HDD Not Included)<br>**PoE:** 115 W (Max. Output for Single Port: 25.5 W) |

## Construction

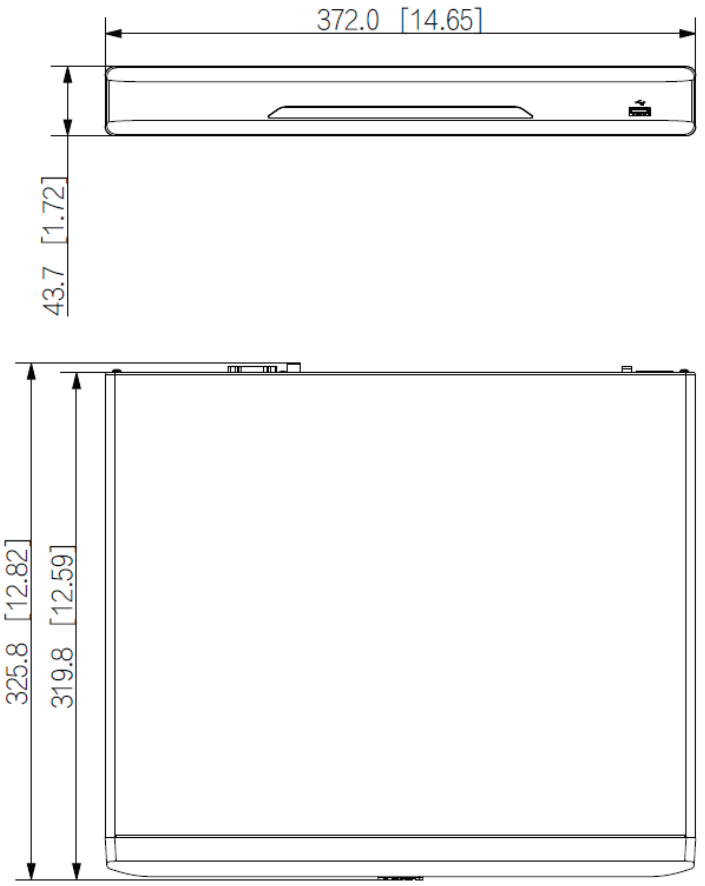
| | |
|---|---|
| Weight | 2.5 kg (5.5 lb) Without HDD |
| Operating Temperature | -10 °C to 55 °C (10 °F to 131 °F)<br>10% to 93% |
| Dimensions (W x L x H) | 372.0 mm × 325.8 mm × 43.7 mm<br>(14.7 in. × 12.8 in. × 1.7 in.) |

## Certifications and Compliance

| | |
|---|---|
| Certifications | FCC |
| Compliance | NDAA |

## Dimensional Drawing

mm [in.]



# R3 NVR Series Feature Comparison

The Luminys R3 NVR series is designed for small-scale deployments and offers camera-side analytics when paired with Luminys cameras. Available in mini form factors with up to 16-channel configurations, the R3 series provides an efficient solution for basic video recording needs.

| SKU | Channels | PoE Ports | Max. Camera Resolution Supported | Max. Recording Bandwidth | HDMI Output Resolution | Chassis Height |
|---|---|---|---|---|---|---|
| R31-4PA | 4 | 4 | Up to 4K (8MP) | 80 Mbps | 4K | Mini 1U |
| R31-8PA | 8 | 8 | Up to 4K (8MP) | 80 Mbps | 4K | Mini 1U |
| R32-8PA | 8 | 8 | Up to 4K (8MP) | 160 Mbps | 4K | 1U |
| R32-16PA | 16 | 16 | Up to 4K (8MP) | 160 Mbps | 4K | 1U |

# Packaging Information

## Included Components

Below are the included components when purchasing the product.

| Quantity | Component |
|---|---|
| 1 | R3 Starter Series NVR |
| 1 | Power Cable, USA Plug, Type B, 3 Pin Plug, 15 A, 120 VAC |
| 2 | Mounting Bracket |
| 1 | USB Mouse |
| 1 | Set of Screws |
| 1 | Set of Anti-Slip Pads |
| 2 | SATA Data Cable |
| 1 | SATA Power Cable |
| 1 | CAT5E Ethernet Cable |
| 1 | Quick Start Guide |
| 1 | Regulatory Information |

# Ordering Information

Below is the ordering information for the product. Larger capacity drives (up to 10 TB) and enterprise-grade models with enhanced durability are also available upon request.[2]

| SKU | Product |
|---|---|
| R31-4PA | R3 Starter Series NVR, 8MP 4 Channel Mini 1U 4-Port PoE, 1SATA, Analytics by Camera |
| R31-8PA | R3 Starter Series NVR, 8MP 8 Channel Mini 1U 8-Port PoE, 1SATA, Analytics by Camera |
| R32-8PA | R3 Starter Series NVR, 8MP 8 Channel 1U 8-Port PoE, 2SATA, Analytics by Camera |
| R32-16PA | R3 Starter Series NVR, 8MP 16 Channel 1U 16-Port PoE, 2SATA, Analytics by Camera |

The following NVR models include pre-installed hard drives and are available in USA. For customers outside USA, please contact your local Luminys sales representative for available NVR models with pre-installed storage.

| SKU | Product |
|---|---|
| R31-4PA2 | R3 Starter Series NVR, 8MP 4 Channel Mini 1U 4-Port PoE, 1SATA, Analytics by Camera, 2TB |
| R31-4PA6 | R3 Starter Series NVR, 8MP 4 Channel Mini 1U 4-Port PoE, 1SATA, Analytics by Camera, 6TB |
| R31-8PA2 | R3 Starter Series NVR, 8MP 8 Channel Mini 1U 8-Port PoE, 1SATA, Analytics by Camera, 2TB |
| R31-8PA4 | R3 Starter Series NVR, 8MP 8 Channel Mini 1U 8-Port PoE, 1SATA, Analytics by Camera, 4TB |
| R32-8PA2 | R3 Starter Series NVR, 8MP 8 Channel 1U 8-Port PoE, 2SATA, Analytics by Camera, 2TB |
| R32-8PA4 | R3 Starter Series NVR, 8MP 8 Channel 1U 8-Port PoE, 2SATA, Analytics by Camera, 4TB |
| R32-16PA4 | R3 Starter Series NVR, 8MP 16 Channel 1U 16-Port PoE, 2SATA, Analytics by Camera, 4TB |
| R32-16PA8 | R3 Starter Series NVR, 8MP 16 Channel 1U 16-Port PoE, 2SATA, Analytics by Camera, 8TB |
| R32-16PA10 | R3 Starter Series NVR, 8MP 16 Channel 1U 16-Port PoE, 2SATA, Analytics by Camera, 10TB |

## LumiCloud Add-Ons

R3 NVRs have enhanced functionality when a LumiCloud add-on license is purchased. LumiCloud offers intelligent system management, cloud-based control, and scalability.

| SKU | Add-On | Description |
|---|---|---|
| LCL-HDV-U | LumiCloud HD Video Unity Channel (Annual Subscription License) | The LumiCloud HD Video Unity Channel license supports one (1) year of high-performance video surveillance for one (1) Luminys network camera when connected to one (1) channel on a Luminys NVR. The license enables the utilization of AI-based events, 30-day rolling AI Event cloud storage, remote maintenance, real-time device health monitoring, and comprehensive support for enhanced security monitoring. Users can archive important video events indefinitely in the cloud.*<br>*Cloud storage requires an active license and provides up to 30 GB archive storage per end-user account. |

1. A LumiCloud HD Video Unity Annual Subscription License is sold separately.
2. Costs may vary depending on hard drive capacity and enterprise-grade model.

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