

R4 Mainstream Series NVR, 8K 8 Channel, 8 PoE

R42-8PA



Key Features

- 8K NVR
- 8 Channels With Two (2) SATA Ports
- HDMI and VGA Output
- Supports Analytics by Camera and Analytics by Recorder¹

Certifications and Compliance

- NDAA Compliant
- FCC

Learn More



Learn more about this product's key technologies.

Overview

The R42-8PA is part of Luminys's Mainstream series. Mainstream series devices are designed with a suite of advanced LumiTechnologies to meet the needs of today's evolving security market.

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.

Analytics by Recorder¹ includes Intelligent Motion Detection (iMD), Video Content Analysis (VCA), Face Detection, and Face Recognition, and Video Metadata by Recorder.

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.

1. Only a limited amount of channels support Analytics by Recorder on R4 series NVRs.

Specifications

Video

| | |
|--------------------------------|--|
| Video Input | 8 Channels |
| Recording Resolutions | 16MP, 12MP, 8MP, 6MP, 5MP (3072 x 1728/2592 x 1944), 4MP (2688 x 1520/2560 x 1440), 3MP (2304 x 1296/2048 x 1536), 1080p, 720p, D1, VGA, CIF |
| Output Resolutions | HDMI: 4K (3840 x 2160), 1920 x 1080, 1280 x 1024, 1280 x 720 VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 |
| Live View/Playback Resolutions | 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF |

Decoding

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|--------------------------------|--|
| Format | Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG |
| Capability | AI On • 1CH at 16MP (30 fps) • 3CH at 8MP (30 fps) • 5CH at 4MP (30 fps) • 8CH at 1080p (30 fps) AI Off • 2CH at 16MP (30 fps) • 4CH at 8MP (30 fps) • 8CH at 4MP (30 fps) |
| Live View Window Division | 1, 4, 8, 9 Views |
| Auxiliary Port Window Division | 1, 4, 8, 9 Views |
| Synchronous Playback | 8 Channels |

Supported Analytics

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|-------------------------------|--|
| Intelligent Motion Detection | Camera: 8CH NVR: 4CH |
| Video Content Analytics (VCA) | Camera: 8CH NVR: 2CH |
| License Plate Recognition | 8CH (LPR Camera Required) Two (2) Block List, Two (2) Allow List Up to 20,000 Plate Numbers |
| Face Detection | Camera: 8CH NVR: 8CH |
| Face Recognition | Face Capture and Recognition: 1 CH Face Picture Comparison Alarm From Camera: 8CH Up to 10 Face Picture Libraries (Max. 20,000 Pictures Total) |

Interface

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|---------|---|
| SATA | Two (2) Ports |
| HDD | Up to 16TB per HDD |
| Network | One (1) RJ-45 Self-Adaptive Ethernet (10/100/1000 Mbps) |
| PoE | Eight (8) RJ-45 Self-Adaptive Ethernet (10/100 Mbps) |
| USB | Front Panel: 1 x USB 2.0 Rear Panel: 1 x USB 2.0 |
| Alarm | Input: Four (4) Channels Output: Two (2) Channels |
| Audio | Input: 1-Channel RCA Input, Two-Way Audio Supported Output: 1-Channel RCA Output |

Network

| | |
|------------------|---|
| Bandwidth | AI On • Incoming/Recording: 180 Mbps • Outgoing: 180 Mbps AI Off • Incoming/Recording: 256 Mbps • Outgoing: 256 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 |

Electrical

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|-------------------|---|
| Power Supply | 100-240 V, 50-60 Hz |
| Power Consumption | < 10 W (HDD Not Included) PoE: 130 W (Max. Output for Single Port: 25.5 W) |

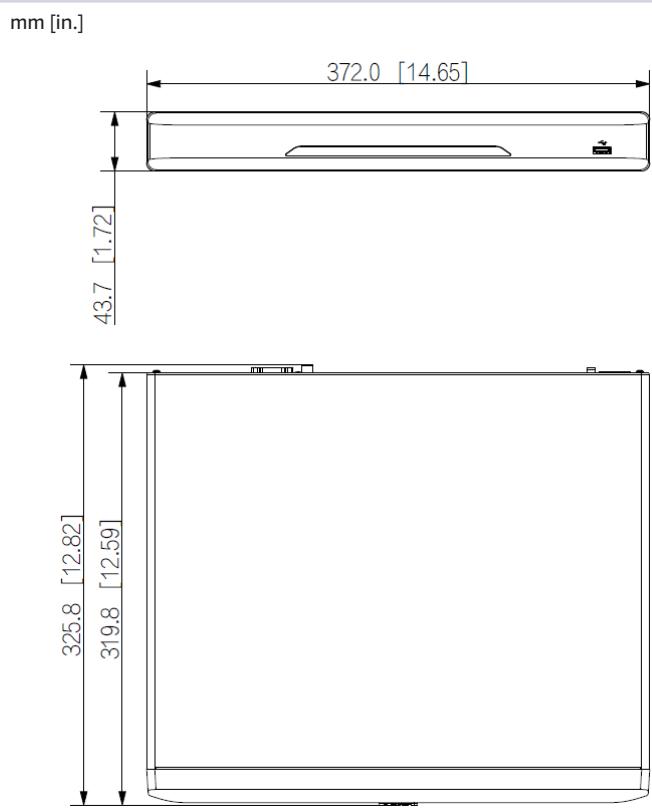
Construction

| | |
|------------------------|--|
| Installation Method | Rack Mount, Desktop |
| Weight | 2.6 kg (5.7 lb) Without HDD |
| Operating Temperature | -10 °C to 55 °C (14 °F to 131 °F) 10% to 93% RH |
| Dimensions (W x L x H) | 372.0 x 325.8 x 43.7 mm (14.7 in. x 12.8 in. x 1.7 in.) |

Certifications and Compliance

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

Dimensional Drawing



R4 NVR Series Feature Comparison

The Luminys R4 NVR series is designed for smarter security management and offers camera-side analytics when paired with Luminys cameras. Available in up to 16 channel configurations, the R4 series provides a powerful and cost-effective solution for video recording needs.

| SKU | Channels | PoE Ports | Max. Camera Resolution Supported | Max. Recording Bandwidth | HDMI Output Resolution | Chassis Height |
|----------|----------|-----------|----------------------------------|---------------------------------------|------------------------|----------------|
| R42-8PA | 8 | 8 | Up to 4K | 180 Mbps (AI On) 256 Mbps (AI Off) | 4K | 1U |
| R42-16PA | 16 | 16 | Up to 4K | 180 Mbps (AI On) 256 Mbps (AI Off) | 4K | 1U |

Packaging Information

Included Components

Below are the included components when purchasing the product.

| Quantity | Component |
|----------|--|
| 1 | R4 Mainstream 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 |
|----------|--|
| R42-8PA | R4 Mainstream Series NVR, 16MP 8 Channel 1U 8-Port PoE, 2SATA, Analytics by Recorder |
| R42-16PA | R4 Mainstream Series NVR, 16MP 16 Channel 1U 16-Port PoE, 2SATA, Analytics by Recorder |

2. Costs may vary depending on hard drive capacity and enterprise-grade model.

