

# R5 Mainstream Series NVR, 8K 32 Channel, 24 PoE

R54-32PA



## Key Features

- 8K NVR
- 32 Channels With Four (4) SATA Ports and One (1) eSATA Port
- 24 PoE Ports With LumiPower Support (Ports 1–8)
- HDMI/VGA Output
- Supports LumiSearch+\*
- iMD, Face Recognition, and VCA by Recorder

## Certifications and Compliance

- NDA Compliant
- FCC

## Learn More



Learn more about this product's key technologies.

## Overview

The **R54-32PA** is part of Luminy's R5 Mainstream series. R5 series devices are designed with a suite of advanced LumiTechnologies to meet the needs of today's evolving security market.

## Key Technologies

**LumiSearch+\*** technology lets you quickly find, track, and identify targets in security footage using a reference image. The LumiSearch algorithm analyzes human body shape, clothing color, and other characteristics to accurately pinpoint where a target has appeared in footage captured by any LumiSearch-enabled camera and NVR. LumiSearch+ provides enhanced LumiSearch functionality by allowing users to create custom intrusion zones to monitor irregular or high-risk areas more precisely.

**LumiPower** technology enables long-distance Power over Ethernet transmission, extending power and data delivery up to 3,000 feet. This simplifies installations in larger or more complex environments by eliminating the need for additional power sources or repeaters. LumiPower ensures consistent connectivity and dependable power management, ideal for expansive security infrastructures.

**LumiViewer** is a desktop and mobile application that 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.

# Specifications

## Video

|                                |                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Input                    | 32 Channels                                                                                                                                                                                                           |
| Recording Resolutions          | 32MP, 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF                                                                                                                                                  |
| Output Resolutions             | <b>HDMI (2CH):</b> 4K (3840 × 2160), 1920 × 1080, 1280 × 1024<br><b>VGA (2CH):</b> 1920 × 1080, 1280 × 1024<br><br>HDMI1/HDMI2 Independent Output<br>HDMI1/VGA1 Simultaneous Output<br>HDMI2/VGA2 Simultaneous Output |
| Live View/Playback Resolutions | 32MP, 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF                                                                                                                                                  |

## Decoding

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format                         | Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG                                                                                                                                                                                                                                                                                                                                              |
| Capability                     | <b>AI On</b> <ul style="list-style-type: none"><li>1CH at 32MP (30 fps)</li><li>2CH at 16MP (30 fps)</li><li>4CH at 8MP (30 fps)</li><li>12CH at 4MP (30 fps)</li><li>24CH at 1080p (30 fps)</li></ul> <b>AI Off</b> <ul style="list-style-type: none"><li>2CH at 32MP (30 fps)</li><li>4CH at 16MP (30 fps)</li><li>8CH at 8MP (30 fps)</li><li>16CH at 4MP (30 fps)</li><li>32CH at 1080p (30 fps)</li></ul> |
| Live View Window Division      | 1, 4, 9, 16, 25, 36 Views                                                                                                                                                                                                                                                                                                                                                                                      |
| Auxiliary Port Window Division | 1, 4, 8, 9, 16 Views                                                                                                                                                                                                                                                                                                                                                                                           |
| Synchronous Playback           | 16 Channels                                                                                                                                                                                                                                                                                                                                                                                                    |

## Supported Analytics

|                               |                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intelligent Motion Detection  | <b>Camera:</b> 16CH<br><b>NVR:</b> 8CH                                                                                                                             |
| Video Content Analytics (VCA) | <b>Camera:</b> 16CH<br><b>NVR:</b> 4CH<br>10 Rules per Channel                                                                                                     |
| Face Recognition              | <b>Face Capture and Recognition:</b> 2CH<br><b>Face Picture Comparison Alarm From Camera:</b> 16CH<br>Up to 20 Face Picture Libraries (Max. 20,000 Pictures Total) |
| LumiSearch+*                  | 16CH (Must be Supported by Camera)                                                                                                                                 |
| Video Metadata                | 8CH (Analytics by Camera)                                                                                                                                          |
| License Plate Recognition     | 8CH (LPR Camera Required)<br>Two (2) Block List, Two (2) Allow List<br>Up to 20,000 Plate Numbers                                                                  |

\*LumiSearch+ requires the use of a LumiSearch+-enabled camera.

## Network

|                  |                                                                                                                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bandwidth        | <b>AI On</b> <ul style="list-style-type: none"><li><b>Incoming:</b> 220 Mbps</li><li><b>Outgoing:</b> 220 Mbps</li></ul> <b>AI Off</b> <ul style="list-style-type: none"><li><b>Incoming:</b> 400 Mbps</li><li><b>Outgoing:</b> 400 Mbps</li></ul> |
| 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                                                                                                                                                                                                                                   |

## Network

|             |                                                                          |
|-------------|--------------------------------------------------------------------------|
| Client      | LumiViewer, LumiViewer Mobile App, LumiCloud                             |
| Interface   |                                                                          |
| SATA        | Four (4) Ports                                                           |
| eSATA       | One (1) Port                                                             |
| HDD         | Up to 16TB per HDD                                                       |
| Network     | One (1) RJ-45 Self-Adaptive Ethernet (10/100/1000 Mbps)                  |
| PoE         | 24 x RJ-45 Self-Adaptive Ethernet (10/100 Mbps)                          |
| USB         | <b>Front Panel:</b> 1 x USB 2.0<br><b>Rear Panel:</b> 2 x USB 3.0        |
| Serial Port | 1 x RS-232                                                               |
| Alarm       | <b>Input:</b> 16 Channels<br><b>Output:</b> 6 Channels                   |
| Audio       | <b>Input:</b> 1-Channel RCA Input<br><b>Output:</b> 2-Channel RCA Output |

## Electrical

|                   |                                                                                      |
|-------------------|--------------------------------------------------------------------------------------|
| Power Supply      | 100 to 240 VAC, 50 to 60 Hz                                                          |
| Power Consumption | < 13 W (HDD Not Included)<br><b>PoE:</b> 210 W (Max. Output for Single Port: 25.5 W) |

## Construction

|                        |                                                    |
|------------------------|----------------------------------------------------|
| Installation Method    | Rack- or Desktop-Mount                             |
| Weight                 | 4.7 kg (10.4 lb) Without HDD                       |
| Operating Temperature  | −10 °C to 55 °C (14 °F to 131 °F)<br>10% to 93%    |
| Dimensions (W × D × H) | 442.0 × 414.1 × 68.0 mm<br>(17.4 × 16.3 × 2.7 in.) |

## Certifications and Compliance

|                |      |
|----------------|------|
| Certifications | FCC  |
| Compliance     | NDAА |

## Dimensional Drawing

