R6 Extreme Series NVR, 8K 128 Channel

R68-XNA



TECHNOLOGY INSIDE LumiCloud

Key Features

- 128 Channels, Up to 32MP Cameras (Max. Incoming Bandwidth: 1400 Mbps)
- Analytics and LumiSearch+[1] by Camera
- Analytics and Video Metadata by Recorder
- LumiCloud Lite Included and Optional Upgrade With LumiCloud HD Video Unity Channel Annual Subscription License[2]
- Up to 160 TB Internal Storage, Eight (8) SATA Ports, One (1) eSATA Port
- Supports RAID 0, 1, 5, 6, 10, Hot Swap
- Dual NIC (10/100/1000/2500 Mbps Ethernet)

Certifications and Compliance

- NDAA Compliant
- UL/cUL
- FCC

Learn More

Learn more about this product's key technologies.

1. LumiSearch+ requires the use of a LumiSearch+-enabled camera.
2. A LumiCloud HD Video Unity Annual Subscription License is sold separately.

Overview

The **R68-XNA** is part of Luminys's Extreme series. Extreme series devices are designed with an extensive suite of advanced LumiTechnologies to meet the needs of today's evolving security market.

Key Technologies

LumiSearch+[1] technology enhances the original functionality of LumiSearch for an even faster way to find, track, and identify targets in recorded video using a reference image. The LumiSearch+ algorithm simultaneously uses both metadata and the search functionality to analyze human body shape, clothing color, and other characteristics to accurately pinpoint where a target has appeared in video captured by any LumiSearch+ enabled camera and NVR.

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 Recorder includes Intelligent Motion Detection (iMD), Video Content Analysis (VCA), Face Detection, Face Recognition, and Video Metadata by Recorder. The NVR processes the video and creates the metadata that is encoded with the video on the NVR. This enables the NVR to create smarter video from any camera for the end-user to ease their video searching, authentication and video capabilities.

Video Metadata by NVR allows greater third-party camera support by allowing the NVR to receive metadata from compatible cameras using ONVIF Profile M.

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	128 Channels
Recording Resolutions	32MP, 24MP, 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF
Output Resolutions	**HDMI (4CH)** • **HDMI 1 and 2**: 3840 × 2160, 1920 × 1080, 1280 × 1024 • **HDMI 3**: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024 • **HDMI 4**: 1920 × 1080, 1280 × 1024 **VGA (2CH):** 1920 × 1080, 1280 x 1024 **Simultaneous Mode** • HDMI1/HDMI2/HDMI3/HDMI4 Simultaneous Output • VGA1/VGA2 Simultaneous Output • HDMI1/VGA1 Simultaneous Output • HDMI2/VGA2 Simultaneous Output **Spot Output Mode** • HDMI1/HDMI2/HDMI3/HDMI4 Spot Output
Live View/Playback Resolutions	32MP, 24MP, 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF

Decoding

Format	Smart H.265+, Smart H.264+, H.265, H.264, MJPEG
Capability	**AI On** • 1CH at 32MP/24MP (30 fps) • 2CH at 16MP/12MP (30 fps) • 4CH at 8MP (30 fps) • 5CH at 6MP (30 fps) • 6CH at 5MP (30 fps • 8CH at 4MP (30 fps) • 16CH at 1080p (30 fps) • 80CH at D1 (30 fps) **AI Off** • 2CH at 32MP/24MP (30 fps) • 4CH at 16MP (30 fps) • 5CH at 12MP (30 fps) • 8CH at 8MP (30 fps) • 11CH at 6MP (30 fps) • 12CH at 5MP (30 fps) • 16CH at 4MP (30 fps) • 32CH at 1080p (30 fps) • 128CH at D1 (30 fps)
Live View Window Division	1, 4, 8, 9, 16, 25, 36, 64 Views
Auxiliary Port Window Division	1, 4, 8, 9, 16, 32 Views
Synchronous Playback	16 Channels

Supported Analytics

Intelligent Motion Detection	**Camera:** 128CH (Max. 128 Targets per Second) **NVR:** 32CH
Video Content Analytics (VCA)	**Camera:** 128CH (Max. 64 Targets per Second) **NVR:** 32CH (Simultaneous Output) **OR** 24CH (Spot Video Output)

Supported Analytics

Video Metadata	**Camera:** 64CH **NVR:** 8CH
Face Detection	**Camera:** 64CH **NVR:** 8CH (Simultaneous Output) **OR** 5CH (Spot Video Output)
Face Recognition	**Simultaneous Output** • **Face Captured by Camera:** 32CH • **Face Captured by NVR:** 8CH **Spot Video Output** • **Face Captured by Camera:** 16CH • **Face Captured by NVR:** 5CH Up to 40 Face Picture Libraries (Max. 300,000 Pictures Total)
LumiSearch+ *(Requires LumiSearch-Enabled Camera)*	64CH (Must be Supported by Camera)
License Plate Recognition *(LPR Camera Required)*	128CH (Max. 64 Targets per Second) One (1) Block List, One (1) Allow List Up to 20,000 Plate Numbers

LumiCloud

Platform	LumiCloud Lite (Included With Hardware) *Optional Upgrade to LumiCloud HD Video Unity Annual Subscription License (Sold Separately)*
Max. Number of Channels	**NVR:** 10CH

Interface

SATA	Eight (8) Ports
eSATA	One (1) Port
HDD	Up to 20 TB per HDD
RAID	0, 1, 5, 6, 10 Hot Swap Supported
Network	Two (2) RJ-45 Self-Adaptive Ethernet (10/100/1000/2500 Mbps)
USB	**Front Panel:** Two (2) x USB 2.0 **Rear Panel:** Two (2) x USB 3.0
Serial Port	One (1) x RS-232, One (1) x RS-485
Alarm	**Input:** 16 Channels **Output:** Eight (8) Channels
Audio	**Input:** One-Channel RCA Input **Output:** Two-Channel RCA Output Two-Way Audio Supported

Network

Bandwidth	**AI On** • **Incoming/Recording:** 700 Mbps • **Outgoing:** 512 Mbps **AI Off** • **Incoming/Recording:** 1400 Mbps • **Outgoing:** 1024 Mbps
Protocol	HTTP, HTTPS, TCP/IP, IPv4, IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS
Interoperability	ONVIF, RTSP

Client	LumiCloud, LumiViewer Desktop Client, LumiViewer Mobile App

Electrical

Power Supply	100 to 240 VAC, 50 to 60 Hz
Power Consumption	< 18 W (HDD Not Included)

Construction

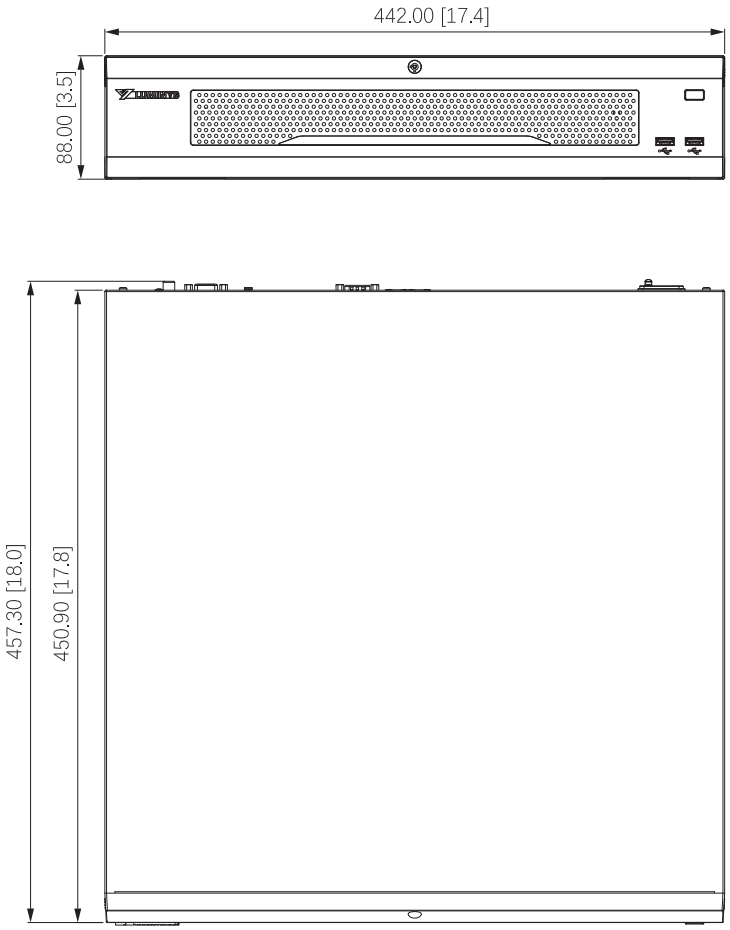
Installation Method	Rack- or Desktop-Mount
Housing	2U
Weight	7.2 kg (15.8 lb) Without HDD
Operating Temperature	–10 °C to 55 °C (14 °F to 131 °F) 10% to 93%
Dimensions (W × D × H)	442.0 mm × 457.3 mm × 88.0 mm (17.4 in. × 18.0 in. × 3.5 in.)

Certifications and Compliance

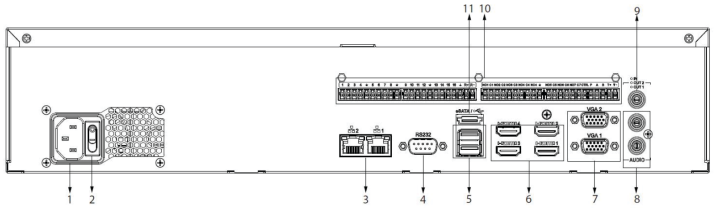
Certifications	FCC, UL/cUL
Compliance	NDAA

Dimensional Drawing

mm [in.]



Back Panel



1	Power Supply	7	VGA Ports
2	Power Switch	8	AUDIO OUT, RCA Connector
3	LAN Network Ports	9	AUDIO IN, RCA Connector
4	RS-232 Port	10	Alarm Input/Output
5	USB Ports	11	eSATA Port
6	HDMI Ports		

Packaging Information

Included Components

Below are the included components when purchasing the product.

Quantity	Component
1	R6 Extreme Series NVR
1	Power Cable, USA Plug, Type B, 3 Pin Plug, 15 A, 120 VAC
1	USB Mouse
1	Front Panel Key
16	Hard Drive Handles
1	Set of Screws
1	Set of Anti-Slip Pads
1	I/O Terminal Block
2	Mounting Bracket
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.[3]

SKU	Product
R68-32NA	R6 Extreme Series NVR, 32MP 32 Channel 2U Dual NIC, 8SATA, Analytics by Recorder Including Metadata, LumiSearch+ Supported
R68-64NA	R6 Extreme Series NVR, 32MP 64 Channel 2U Dual NIC, 8SATA, Analytics by Recorder Including Metadata, LumiSearch+ Supported
R68-XNA	R6 Extreme Series NVR, 32MP 128 Channel 2U Dual NIC, 8SATA, Analytics by Recorder Including Metadata, LumiSearch+ Supported

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

LumiCloud Add-Ons

R6 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.* *Cloud storage requires an active license and provides up to 30 GB archive storage per end-user account.

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