LUMINYS

5MP LumiLuxLite Network Kit
K54-4L1A2

Key Features

- 4K NVR With 2 TB HDD
- Four (4) Channels with One (1) SATA Port
- HDMI and VGA Output
- PoE Plug-and-Play
- 5MP Turret Housing
- 2.8 mm Fixed Lens
- LumiLuxLite — IR and White-Light LEDs
- iMD

Certifications and Compliance

- NDAA Compliant
- FCC
- ONVIF

Learn More

Learn more about the camera's key technologies.

Learn more about the NVR's key technologies.

Overview

The **K54-4L1A2** is a full-featured security solution. It contains one (1) Luminys R3 Starter series NVR and four (4) 5MP network cameras. This smartly-designed kit is highly cost-effective and designed with a curated selection of technologies and features to provide high-quality security without unnecessary or complicated add-ons. With all devices part of the powerful Luminys security ecosystem, integration between the cameras and NVR is seamless and provides the highest levels of compatability and functionality.

Key Technologies

R3 Starter series NVRs are compatible with the **LumiViewer desktop platform and mobile app**. 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.

LumiLuxLite technology allows cameras to capture clear, full-color video day or night. When motion is detected, LumiLuxLite cameras switch from IR LEDs to white-light LEDs to illuminate a scene, then switch back to IR mode once motion has ceased to prevent light pollution and energy inefficiency.

Intelligent Motion Detection (iMD) technology accurately detects and filters humans and vehicle in a monitoring area. Using an advanced algorithm, iMD can accurately detect humans and vehicles while reducing false alarms caused by other objects, animals, or lighting. Users can be alerted to iMD events for timely security. iMD events can be saved for future reference and easily searched for at a later time for forensic analysis and to assist in investigations.

NVR Specifications - R31-4PA2

R3 Starter Series NVR, 4K 4 Channel, 4 PoE With 2 TB HDD

Video

Video Input	Four (4) 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 **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, MJPEG
Capability	**Two (2) Channel:** 8MP at 30 fps **Four (4) Channel:** 1080p at 30 fps
Synchronous Playback	1, 4 Views

Supported Analytics by N3T-5KA2

Intelligent Motion Detection	Four (4) Channels
Smart Search	Search by Target Classification and Time

Interface

SATA	One (1) Port
HDD	2 TB Pre-Installed HDD, (Max. 10 TB per HDD)
Network	One (1) Port (RJ-45 Self-Adaptive Ethernet (10/100/1000 Mbps))
PoE	Four (4) Ports (RJ-45 Self-Adaptive Ethernet (10/100 Mbps))
USB	**Front Panel:** One (1) USB 2.0 Port **Rear Panel:** One (1) USB 2.0 Port
Audio	**Input:** One (1) RCA Channel **Output:** One (1) RCA Channel

Network

Bandwidth	**Incoming/Recording:** 80 Mbps **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[1]

Electrical

Power Supply	48 V/53 VDC, 1.25 A/1.13 A
Power Consumption	< 10 W (Without HDD) **PoE:** 36 W (Max. Output for Single Port: 25.5 W)

## Construction

Weight	1.9 kg (4.1 lb) Without HDD
Operating Temperature	-10 °C to 55 °C (10 °F to 131 °F) 10% to 93%
Dimensions (W x L x H)	260.0 mm × 233.2 mm × 43.7 mm (10.2 in. × 9.2 in. × 1.8 in.)

Certifications and Compliance

Certifications	FCC
Compliance	NDAA

Dimensional Drawing

mm [in.]
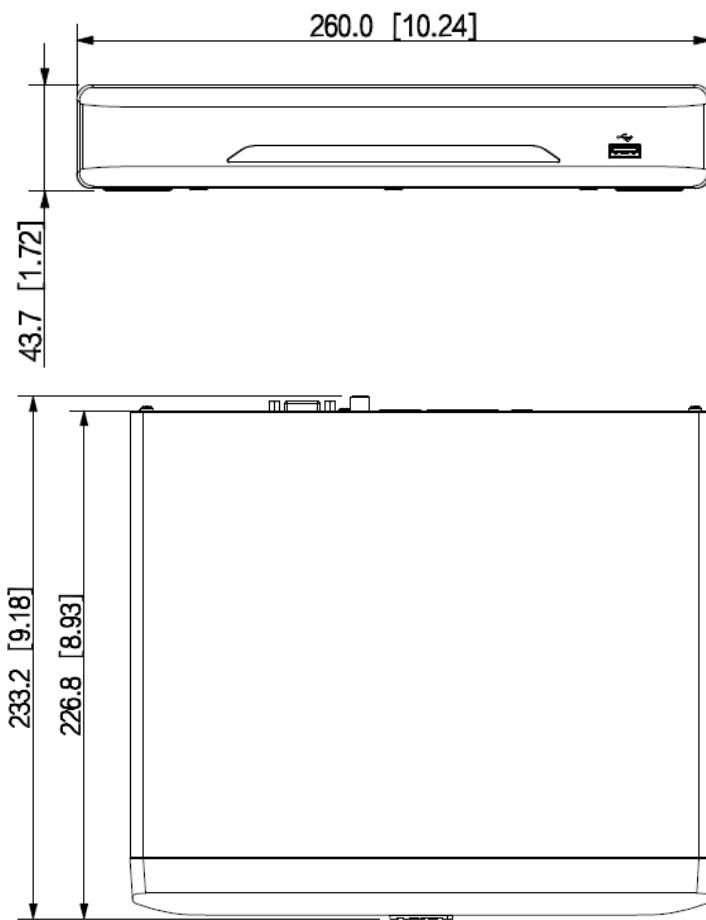
1. LumiCloud integration for the kit is limited to the following functions: iMD On/Off, iMD notification, and iMD event playback.

Camera Specifications - N3T-5KA2 (Kit Only)[2]
5MP LumiLuxLite Fixed Turret Network Camera (2.8 mm)

Camera

Luminys Series	N3 Series (Starter)
Image Sensor	1/2.7-in. 5MP Progressive CMOS
Maximum Resolution	2880 x 1620
Minimum Illumination	**Color:** 0.01 Lux at F1.6 (AGC On) **Black/White:** 0 Lux With IR Light On
Number of Illuminators	Four (4) White-Light LEDs, Four (4) IR LEDs, Supports LumiLuxLite
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	**IR:** Up to 30.0 m (98.4 ft) **White Light:** Up to 20.0 m (65.6 ft)
Electronic Shutter Speed	Automatic, Manual 1/5 s to 1/20,000 s
Installation Angle	**Pan:** 0° to 355° **Rotation:** 0° to 360° **Tilt:** 0° to 80°
S/N Ratio	> 38 dB

Lens

Iris Type	Fixed
Lens Type	Fixed
Focal Length	2.8 mm
Maximum Aperature	F1.6
Field of View	**Horizontal:** 108.3° **Vertical:** 59.9° **Diagonal:** 126.8°

Video

Compression	H.265, H.264
Standard Codec	Supported
Stream Capability	Two (2)
Resolution	2880 x 1620, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720, D1 (704 x 576), VGA (640 x 480), CIF (352 x 288)
Maximum Frame Rate	**Main Stream:** 2880 x 1620 at 25 fps **Sub Stream:** D1 at 25 fps
Video Bit Rate	**H.265:** 128 kbps to 6,144 kbps **H.264:** 64 kbps to 1,024 kbps
Bit Rate Control	CBR/VBR
Day/Night	Automatic (ICR), Color, Black and White
Light Balancing	Digital Wide Dynamic Range (DWDR), BLC, HLC
Image Angle	0°/180°
Mirror Rotation	Supported
Privacy Masking	Four (4) Zones

Analytics[3]

Intelligent Motion Detection	Supported With Alarms for Vehicles and Humans

Audio

Compression	G.711U
Interface	**Input:** Built-In Microphone **Output:** Built-In Speaker

Alarm

Event	Motion Detection, iMD

Network

Interface	RJ-45 (10/100 Base-T)
Protocol	HTTP, TCP/IP, IPv4, DHCP, NTP
Interoperability	ONVIF (Profile S), SDK
Browser	Chrome, Firefox, Edge
Storage	FTP, SFTP, Micro SD Card (Max. 128 GB)

Electrical

Power Supply	12 VDC (-15% to +25%), PoE (802.3af)
Power Consumption	**Maximum (White-Light On):** 8.5 W **Normal (IR Off):** 2.0 W

Construction

Net Weight	0.5 kg (1.0 lb)
Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Operating Humidity	< 90% RH
Protection Ratings	IP66
Product Dimensions	φ 111.0 mm × 100.8 mm (φ 4.4 in. × 4.0 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]
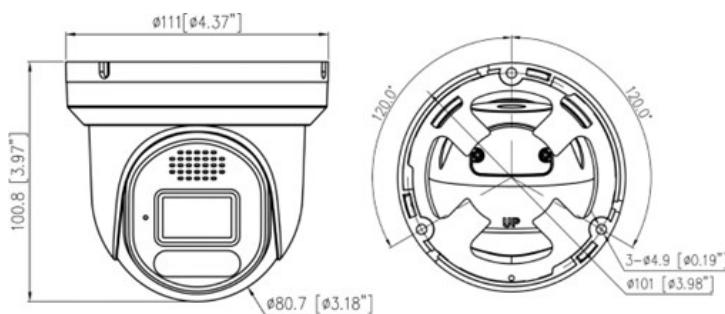
2.   This camera is only compatible with Luminys R3 NVRs.
3.   Some analytics may require firmware upgrades. Please visit the Luminys Wiki page for the latest firmware.

Optional Accessories

Below are the optional accessories for this product. All SKUs listed must be purchased to complete an accessory combination. For more information and to see mounting combinations, please view our accessory selector at https://www.luminyscorp.com/products/accessories.

Accessory Combination	SKU(s)	Description
Horizontal Pole Mount	N3T-J02	Junction Box