

8MP LumiLightBand Network Kit

K8T-16B2A4



Key Features

- 4K NVR With 4 TB HDD
- 16 Channels With Two (2) SATA Ports
- HDMI and VGA Output
- PoE Plug-and-Play
- 8MP Turret Housing
- 2.8 mm Fixed Lens
- LumiLightBand
- Video Content Analytics: Line Crossing and Intrusion
- 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 **K8T-16B2A4** is a full-featured security solution. It contains one (1) Luminys R3 series NVR and twelve (12) 8MP 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 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.

LumiLightBand technology activates a camera's light strip according to a schedule, event trigger, or motion detection. When the camera's sensor detects motion, the semi-ring of colorful LEDs turn red to deter intruders. Once motion stops, the colorful LEDs return to their normal state. The lights come in eight (8) different colors and can be set to keep steady, wave, or flash for a specific amount of time. LumiLightBand cameras offer three low-light modes: covert IR-only mode, nighttime white-light deterrent LEDs, and motion-activated IR and LED dual-illumination. The brightness and intensity of the white-light LEDs can be remotely adjusted, preventing unnecessary light pollution.

NVR Specifications - R32-16PA4

R3 Starter Series NVR, 4K 16 Channel, 16 PoE With 4 TB HDD

Video

Video Input	16 Channels
Recording Resolutions	8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF
Output Resolutions	HDMI: 4K (3840 × 2160), 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 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 Eight (8) Channel: 1080p at 30 fps
Synchronous Playback	1, 4, 8, 9, 16 views

Supported Analytics by Camera

Intelligent Motion Detection	12 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	4 TB Pre-Installed HDD (Max. 10 TB per HDD)
Network	One (1) Port (RJ-45 Self-Adaptive Ethernet (10/100/1000 Mbps))
PoE	16 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
Alarm	Input: Four (4) Channels Output: Two (2) Channels
Audio	Input: One (1) RCA Channel Output: One (1) RCA Channel

Network

Bandwidth	Incoming/Recording: 160 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

Electrical

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

Construction

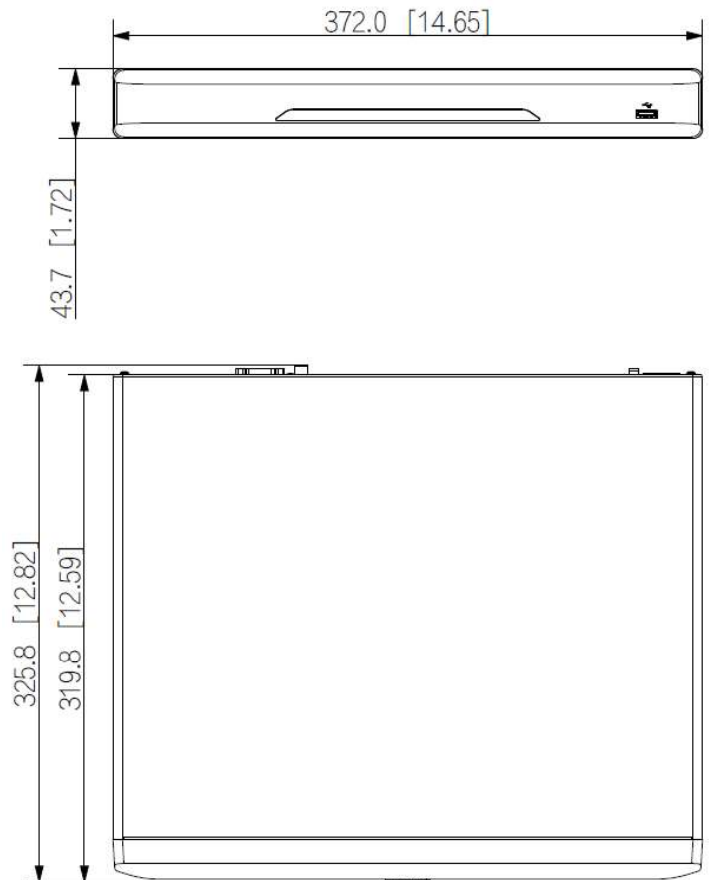
Weight	2.6 kg (5.8 lb) Without HDD
Operating Temperature	-10 °C to 55 °C (10 °F to 131 °F) 10% to 93%
Dimensions (W x L x H)	372.0 mm × 325.8 mm × 43.7 mm (14.7 in. × 12.8 in. × 1.7 in.)

Certifications and Compliance

Certifications	FCC
Compliance	NDA

Dimensional Drawing

mm [in.]



Camera Specifications - N3T-8BA2

8MP Network LumiLightBand Turret Camera (2.8 mm)

Camera	
Luminys Series	N3 Series (Entry Level)
Image Sensor	1/2.8-in. 8MP Progressive CMOS
Maximum Resolution	3840 × 2160
Minimum Illumination	Color: 0.008 Lux at F1.6 (30 IRE) Black/White: 0.0008 Lux at F1.6 (30 IRE) 0 Lux With IR Light On
Number of Illuminators	One (1) IR LED, Two (2) White-Light LEDs Supports LumiLightBand
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	IR/Warm-Light: Up to 30.0 m (98.4 ft)
Electronic Shutter Speed	Automatic, Manual; 1/3 s to 1/100,000 s
Installation Angle	Pan and Rotation: 0° to 360° Tilt: 0° to 78°
S/N Ratio	> 50 dB

Lens	
Iris Type	Fixed
Lens Type	Fixed
Focal Length	2.8 mm
Maximum Aperature	F1.6
Field of View	Horizontal: 111° Vertical: 58° Diagonal: 132°
Close Focus Range`	1.5 m (4.9 ft)
DORI Distance	Detect: 58.2 m (190.9 ft) Observe: 23.3 m (76.4 ft) Recognize: 11.6 m (38.1 ft) Identify: 5.8 m (19.0 ft)

Video	
Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Sub Stream Only)
Stream Capability	Two (2) Streams
Resolution	8MP (3840 × 2160), 6MP (3072 × 2048), 5MP (3072 × 1728), 5MP (2880 × 1620), 4MP (2688 × 1520), 3.6MP (2560 × 1440), 3MP (2048 × 1536), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Maximum Frame Rate	Main Stream: 3840 x 2160 at 20 fps Sub Stream: D1 at 20 fps
Video Bit Rate	H.264: 32 to 8192 kbps H.265: 12 to 8192 kbps
Bit Rate Control	CBR/VBR
Day/Night	Automatic (ICR), Color, Black and White
Light Balancing	Wide Dynamic Range (120 dB)
Noise Reduction	3D NR
Image Rotation	0°/90°/180°/270° (Supports 90°/270° With 4MP Resolution and Lower)
Mirroring	Supported
Region of Interest	Four (4) Zones
Privacy Masking	Four (4) Zones

Analytics	
Video Content Analytics	Line Crossing, Intrusion
Intelligent Motion Detection	Supported With Alarms for Vehicles and Humans

Audio	
Compression	PCM, G.711a, G.711Mu
Interface	Input: Built-in Microphone

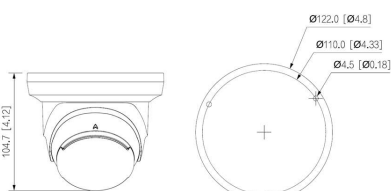
Alarm	
Event	No SD Card, Disk Full, SD Card Error, Offline, IP Conflict, Illegal Access, Motion Detection, Video Tampering, Voltage Detection, Security Exception, Line Crossing, Intrusion, Audio Detection, IMD

Network	
Protocol	RJ-45 (10/100 Base-T)
Protocol	IPv4, IPv6, HTTP, TCP, UDP, ARP, RTP,RTSP, RTMP, FTP, SFTP ,NAS, DHCP,DNS DDNS, QoS, UPnP, NTP , NFS, PPPoE, SMTP, 802.1x
Interoperability	ONVIF (Profile S/G/T), CGI, SDK
Browser	Chrome, Firefox, Edge
Client	LumiViewer, LumiViewer Mobile App
Storage	FTP, SFTP, NAS, MicroSD Card (Max. 256 GB)

Electrical	
Power Supply	12 VDC, PoE (802.3af)
Power Consumption	12 VDC: 8.4 W (Max.), 3.2 W (Normal) PoE: 9.8 W (Max.), 4.3 W (Normal)

Construction	
Net Weight	0.5 kg (1.1 lb)
Gross Weight	0.7 kg (1.4 lb)
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F) < 95% RH (Non-Condensing)
Storage Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Protection Ratings	IP67
Dimensions (L × W × H)	Φ 122.0 mm × 104.7 mm (Φ 4.8 in. × 4.1 in.)
Material	Metal

Certifications and Compliance	
Certifications	FCC, IC
Compliance	NDA A

Dimensional Drawing	
mm [in.]	
	

Optional Accessories - N3T-8BA2

8MP Network LumiLightBand Turret Camera (2.8 mm)

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
Junction Box	N5D/N5T/N3T-J01	Junction Box
Wall Mount (Option 1)	N5D/N5T/N3T-W01	Wall Mount Bracket
Wall Mount (Option 2)*	N5D/N5T/N3T-A01	Junction Box
	N5D/N5T/N3T/P45/P5-W01	Wall Mount Bracket
Pole Mount (Option 1)*	N5D/N5T/N3T-J01	Junction Box
	N3/N5-P01	Pole Mount Bracket
Pole Mount (Option 2)*	N5D/N5T/N3T-A01	Adapter Plate
	N5D/N5T/N3T/P45/P5-W01	Wall Mount Bracket
	P01	Pole Mount Bracket
Pendant Mount*	N5D/N5T/N3T-A01	Adapter Plate
	N5D/N5T/N3T/N5P-E01	Ceiling Mount Bracket
Corner Mount*	N5D/N5T/N3T-A01	Adapter Plate
	N5D/N5T/N3T/P45/P5-W01	Wall Mount Bracket
	C01	Corner Mount Bracket

*All SKUs must be purchased to complete the mounting combination. Failure to purchase all SKUs listed will result in an incomplete mount.