8MP Network LumiLuxSmart Dome Camera (Vari-Focal)

N3D-8LAV



Key Features

- 8MP Dome Housing
- 2.7 mm to 13.5 mm Motorized Vari-Focal Lens
- LumiLuxSmart — IR and White-Light LEDs
- Video Content Analytics: Line Crossing, Intrusion
- iMD
- LumiPolarPro and LumiDesertPro

Certifications and Compliance

- NDAA Compliant
- FCC
- IC

Learn More

Learn more about this product's key technologies.

View all compatible accessories for this product.

Overview

The **N3D-8LAV** is part of Luminys's Starter series. Starter series devices are designed with a curated selection of technologies and features to provide high-quality security without unnecessary or complicated add-ons.

This camera is equipped with LumiLuxSmart technology to provide unparalleled customization and flexibility to meet the needs of today's security market. LumiLuxSmart cameras allow users to switch between three low-light functionalities: covert IR- only mode, nighttime white-light LED lighting, 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. With its smart design, this camera is ideal for small to mid-sized applications.

Key Technologies

LumiLuxSmart technology allows cameras to capture clear, full-color video day or night. When motion is detected, LumiLuxSmart 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.

Video Content Analytics (VCA) is the umbrella for line crossing and intrusion analytics. Line crossing identifies when a person or object crosses a defined line. Intrusion detects when a person or object breaches the boundaries of a defined area or enters a restricted area. VCA is available on most Luminys network cameras.

LumiPolarPro and **LumiDesertPro** technology ensure rugged all-weather performance. Depending on the product model, LumiPolarPro enables dependable performance in -40 °C (-40 °F) or lower, and LumiDesertPro allows operation in temperatures 60 °C (140 °F) or higher.

Specifications

Camera

Luminys Series	Starter
Image Sensor	1/2.7-in. 8MP Progressive CMOS
Maximum Resolution	3840 x 2160
Minimum Illumination	**Color:** 0.007 Lux at F1.6 **Black/White:** 0.0007 Lux at F1.6 0 Lux With IR Light On
Number of Illuminators	Four (4) White-Light LEDs, Four (4) IR LEDs, Supports LumiLuxSmart
Illuminator Control	Automatic, Manual, Zoom Priority
Maximum Illumination Distance	**IR:** Up to 61.0 m (200.0 ft) **White Light:** Up to 61.0 m (200.0 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
Installation Angle	**Pan/Rotation:** 0° to 355° **Tilt:** 0° to 80°
S/N Ratio	> 56 dB

Lens

Iris Type	Fixed
Lens Type	Motorized Vari-Focal
Focal Length	2.7 mm to 13.5 mm
Maximum Aperature	F1.5
Field of View	**Horizontal:** 114° to 32° **Vertical:** 58° to 17° **Diagonal:** 138° to 36°
Close Focus Range`	0.8 m (2.6 ft)
DORI Distance	**Detect:** 85.0 m to 279.5 m (278.9 ft to 917.0 ft) **Observe:** 33.9 m to 111.8 m (111.22 ft to 366.80 ft) **Recognize:** 16.9 m to 55.8 m (55.45 ft to 183.07 ft) **Identify:** 8.3 m to 27.8 m (27.23 ft to 91.21 ft)

Video

Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Sub Stream Only)
Standard Codec	Supported
Stream Capability	Two (2)
Resolution	8MP (3840 x 2160), 6MP (3072 x 2048), 5MP (3072 x 1728), 5MP (2880 x 1620), 4MP (2688 x 1520), 3MP (2048 x 1536), 3MP (2304 x 1296), 1080P (1920 x 1080), 1.3MP (1280 x 960), 720P (1280 x 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)
Maximum Frame Rate	**Main Stream:** 3840 x 2160 at 20 fps **Sub Stream 1:** D1 at 30 fps
Video Bit Rate	**H.264:** 3 kbps to 8,192 kbps **H.265:** 3 kbps to 8,192 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

Video

Image Angle	0°/90°/180°/270° (Only 90°/270° Available for 2688 × 1520 Resolution or Lower)
Mirror Rotation	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	G.711a, G.711Mu, PCM
Interface	**Input:** Built-in Microphone and One (1) RCA Input **Output:** One (1) RCA Output

Alarm

Event	Line Crossing, Intrusion, Motion Detection, iMD, Audio Detection, Video Tampering, Disk Full, Disk Error, Voltage Detection, Security Exception
Interface	**Input:** One Port (Max. 5 VDC, 5 mA) **Output:** One (1) Port (Max. 12 VDC, 300 mA)

Network

Protocol	RJ-45 (10/100 Base-T)
Protocol	IPv4, IPv6, DNS, TCP, UDP, DHCP, HTTP, HTTPS, 802.1X, RTSP, DDNS, P2P, SMTP, RTMP, UPnP, Auto Registration, ICMP, IGMP, FTP, SFTP, RTP, RTCP, ARP, NTP, Multicast, NFS
Interoperability	ONVIF (Profile S/G/T), CGI
Browser	Chrome, Firefox, Edge
Client	LumiViewer, LumiViewer Mobile App
Strorage	FTP, NAS, SFTP, Micro SD Card (Max. 256 GB)

Electrical

Power Supply	12 VDC, PoE (802.3af)
Power Consumption	**12 VDC** • **Maximum:** 6.9 W • **Normal:** 2.6 W **PoE** • **Maximum:** 8.3 W • **Normal:** 3.3 W

Construction

Net Weight	0.6 kg (1.3 lb)
Gross Weight	0.7 kg (1.6 lb)
Operating Temperature	-40 to 60 °C (-40 to 140 °F) < 95% RH (Non-Condensing)
Storage Temperature	-40 to 60 °C (-40 to 140 °F)
Protection Ratings	IP67, IK10
Product Dimensions	Φ 126.0 mm × 100.0 mm (Φ 5.0 in. × 4.0 in.)

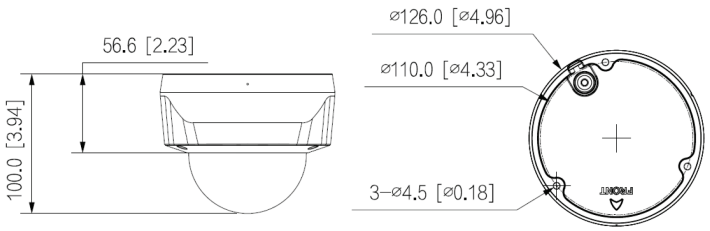
Packaging Dimensions (L x W x H)	148.0 mm x 139.0 mm x 137.0 mm (5.3 in. x 5.5 in. x 5.4 in.)
Material	Metal (Housing), Plastic (Dome Covering)

Certifications and Compliance

Certifications	FCC, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]



Compatible Accessories

Below are the compatible accessories for this product. Not all accessories are included with purchase; some must be purchased separately. For each mount type, all listed SKUs are required to ensure proper installation.

Cross-check the accessories in this datasheet with the Luminys accessory selector tool, and verify that the mount size corresponds to the camera size. Failure to check may result in an incorrect or incomplete mount.

Accessory Combination	SKU(s)	Description
Junction Box	N5D/N5T/N3T-J01 *(Must be Purchased Separately)*	Junction Box for Select Standard Size Dome and Mini Turret Camera Models
Wall Mount	N5D/N5T/N3T-W01 *(Must be Purchased Separately)*	Wall Mount Bracket for Select N5D Dome and N5T/N3T Turret Cameras
Horizontal Pole Mount*	N5D/N5T/N3T-W01 *(Must be Purchased Separately)*	Wall Mount Bracket for Select N5D Dome and N5T/N3T Turret Cameras
	N3/N5-P01 *(Must be Purchased Separately)*	Pole Mount Bracket for Select N3 and N5 Series Cameras
Vertical Pole Mount*	N5D/N5T/N3T-A01 *(Must be Purchased Separately)*	Junction Box for Standard Size Turret Camera Models
	N5D/N5T/N3T/N5P-E01 *(Must be Purchased Separately)*	Ceiling Mount Bracket for Standard Dome, Dome Wedge, and Mini Turret Cameras
	P01 *(Must be Purchased Separately)*	Pole Mount Bracket for Select N3 and N5 Series Cameras
Pendant Mount*	N5D/N5T/N3T-A01 *(Must be Purchased Separately)*	Adapter Plate for Select Dome and Turret Cameras
	N5D/N5T/N3T/N5P-E01 *(Must be Purchased Separately)*	Ceiling Mount Bracket for Standard Dome, Dome Wedge, and Mini Turret Cameras
Corner Mount*	N5D/N5T/N3T-A01 *(Must be Purchased Separately)*	Adapter Plate for Select Dome and Turret Cameras
	N5D/N5T/N3T/P45/P5-W01 *(Must be Purchased Separately)*	Wall Mount Bracket for Select N5D, N5T, N3T, P45, P54, and P55 Cameras
	C01 *(Must be Purchased Separately)*	Corner Mount Bracket for N3, N5, N9, P4, P5 Series Cameras
In-Ceiling Mount	N5D-M01 *(Must be Purchased Separately)*	In-Ceiling Mount Bracket for Select Dome Camera Models

*All SKUs listed must be used to complete the mounting combination. Verify the compatibility of the listed mounting components prior to ordering. Failure to use all SKUs listed and ensure compatibility may result in an incorrect or incomplete mount.

Replacement Components

Below are the replacement components available for this product. Not all product components are available for replacement. Replacement component must be purchased seperately. Cross-check the components in this datasheet with the Luminys accessory selector tool, and verify that the component size corresponds to the camera size. Failure to check may result in the purchase of an incorrect or incompatible component.

SKU	Description
N5D-B01 *(Must be Purchased Separately)*	Smoked Polycarbonate Replacement Bubble (3.4 inch) for Select Dome Cameras