# 4MP Network LumiLuxSmart Dome Camera (Vari-Focal)

## N3D-4LAV

## Key Features

- 4MP 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

## Certifications and Compliance

- NDAA Compliant
- FCC
- IC
- ONVIF

## Learn More

Learn more about this product's key technologies.

View all compatible accessories for this product.

## Overview

The **N3D-4LAV** is part of Luminys's N3 Starter series. N3 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 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.

# Specifications

## Camera

| | |
|---|---|
| Luminys Series | N3 Series (Starter) |
| Image Sensor | 1/2.9-in. 4MP Progressive CMOS |
| Maximum Resolution | 2688 × 1520 |
| Minimum Illumination | **Color:** 0.005 Lux at F1.5<br>**Black/White:** 0.0005 Lux at F1.5<br>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 39.6 m (130.0 ft)<br>**White Light:** Up to 39.6 m (130.0 ft) |
| Electronic Shutter Speed | Automatic, Manual<br>1/3 s to 1/100,000 s |
| Installation Angle | **Pan/Rotation:** 0° to 355°<br>**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:** 97° to 28°<br>**Vertical:** 52° to 16°<br>**Diagonal:** 117° to 32° |
| Close Focus Range` | 0.8 m (2.6 ft) |
| DORI Distance | **Detect:** 63.8 m to 209.8 m (209.32 ft to 688.3 ft)<br>**Observe:** 25.3 m to 83.8 m (80.0 ft to 274.9 ft)<br>**Recognize:** 12.5 m to 41.7 m (41.0 ft to 136.8 ft)<br>**Identify:** 6.3 m to 20.8 m (20.7 ft to 68.2 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 | 4MP (2688 x 1520), 4MP (2560 x 1440), 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:** 2688 x 1520 at 20 fps<br>**Sub Stream 1:** D1 at 30 fps |
| Video Bit Rate | **H.264:** 2,304 kbps to 6,144 kbps<br>**H.265:** 768 kbps to 6,144 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 Angle | 0°/90°/180°/270° |
| Mirror Rotation | Supported |
| Region of Interest | Four (4) Zones |

## Video

| | |
|---|---|
| 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<br>**Output:** One (1) RCA Output |

## Alarm

| | |
|---|---|
| Event | Line Crossing, Intrusion, Motion Detection, iMD, Audio Detection, Video Tampering, External Alarm, Disk Full, Disk Error, Offline, IP conflict, Voltage Detection, Security Warning |
| Interface | **Input:** One Port (Max. 5 VDC, 5 mA)<br>**Output:** One (1) Port (Max. 12 VDC, 300 mA) |

## Network

| | |
|---|---|
| Interface | 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 |
| Storage | FTP, SFTP, Micro SD Card (Max. 256 GB) |

## Electrical

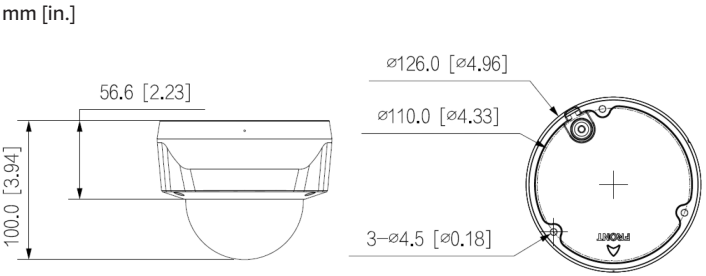| | |
|---|---|
| Power Supply | 12 VDC, PoE (802.3af) |
| Power Consumption | **12 VDC**<br>• **Maximum:** 10.2 W<br>• **Normal:** 2.6 W<br>**PoE**<br>• **Maximum:** 12.7 W<br>• **Normal:** 3.1 W |

## 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)<br>< 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<br>(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<br>(5.8 in. x 5.5 in. x 5.4 in.) |
| Material | Metal |

## Certifications and Compliance

| Certifications | FCC, IC |
|---|---|
| Compliance | NDAA |

## Dimensional Drawing

mm [in.]



## 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 |
|---|---|---|
| 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 | Adapter Plate |
| | N5D/N5T/N3T/P45/P5-W01 | Wall Mount Bracket |
| Pole Mount (Option 1)* | N5D/N5T/N3T-W01 | Wall Mount Bracket |
| | N3/N5-P01 | Pole Mount Bracket |
| Pole Mount (Option 2)* | N5D/N5T/N3T-A01 | Adapter Plate |
| | N5D/N5T/N3T/P45/PS-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.