

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

N5D-4LAV



## Key Features

- 4MP Dome Housing
- 2.7 mm to 12 mm Motorized Lens
- LumiLuxSmart — IR and White-Light LEDs
- Video Content Analytics+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- LumiAnalytics, Face Detection, People Counting, Heat Map, LumiSearch+
- iMD, Queue Management, Smart Object Detection
- LumiPower

## Certifications and Compliance

- NDAA Compliant
- FCC
- IC



Learn more about this camera's key technologies.



View all compatible accessories for this camera.

## Overview

The **N5D-4LAV** is part of Luminys's N5 mainstream series of security devices. N5 mainstream series devices are designed with a suite of advanced LumiTechnologies to meet the needs of today's evolving security market.

## 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.

**LumiSearch+** technology lets you quickly find, track, and identify targets in security footage using a reference image. The LumiSearch algorithm analyzes human body shape, clothing color, and other characteristics to accurately pinpoint where a target has appeared in footage captured by any LumiSearch-enabled camera and NVR.

**LumiAnalytics** technology uses detailed metadata and advanced AI algorithms to track important metrics such as people counting and behavior analysis. These insights give businesses highly valuable information to improve and optimize operations.

**LumiPower** technology enables long-distance Power over Ethernet transmission, extending power and data delivery up to 3,000 feet. This simplifies installations in larger or more complex environments by eliminating the need for additional power sources or repeaters. LumiPower ensures consistent connectivity and dependable power management, ideal for expansive security infrastructures.

# Specifications

## Camera

Luminys Series	N5 Series (Mainstream)
Image Sensor	1/1.8-in. 4MP Progressive CMOS
Maximum Resolution	2688 × 1520
Minimum Illumination	<b>Color:</b> 0.0006 Lux (F1.2) <b>Black/White:</b> 0.0003 Lux at (F1.2) 0 Lux With IR Light On
Number of Illuminators	Four (4) Dual-Core (IR and White Light) LEDs, Supports LumiLuxSmart
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	<b>IR:</b> Up to 30.0 m (98.4 ft) <b>White Light:</b> Up to 30.0 m (98.4 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
Pan/Tilt/Zoom	<b>Pan:</b> 0° to 355° <b>Tilt:</b> 0° to 80° <b>Zoom:</b> 0° to 355°
S/N Ratio	> 50 dB

## Lens

Iris Type	Automatic
Lens Type	Motorized Vari-Focal
Focal Length	2.7 to 12 mm
Maximum Aperature	F1.2
Field of View	<b>Horizontal:</b> 114° to 48° <b>Vertical:</b> 59° to 27° <b>Diagonal:</b> 143° to 56°
Close Focus Range	0.2 m (0.5 ft)
DORI Distance	<b>Detect:</b> 60.4 m to 128.7 m (198.2 ft to 425.5 ft) <b>Observe:</b> 24.2 m to 51.5m (79.4 ft to 167.0 ft) <b>Recognize:</b> 12.1 m to 25.7 m (39.7 ft to 84.3 ft) <b>Identify:</b> 6.0 m to 12.9 m (19.7 ft to 42.3 ft)

## Video

Compression	H.265, H.264, H.264H, H.264B, MJPEG (Sub Stream Only)
Stream Capability	Three (3) Streams
Resolution	4MP (2688 × 1520), 3.6MP (2560 × 1440), 3MP (2048 × 1536), 2MP (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	<b>Main Stream:</b> 2688 × 1520 at 1–30 fps <b>Sub Stream 1:</b> D1 at 1–30 fps <b>Sub Stream 2:</b> 1080p at 1–30 fps
Video Bit Rate	<b>H.265:</b> 12 kbps to 11776kbps <b>H.264:</b> 32 kbps to 16384 kbps
Bit Rate Control	CBR/VBR
Day/Night	Automatic (ICR), Color, Black and White
Light Balancing	Wide Dynamic Range (130 dB)
Noise Reduction	3D NR
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2MP Resolution and Lower)
Mirroring	Supported

## Video

Defog	Supported
Region of Interest	Four (4) Zones
Privacy Masking	Four (4) Zones

## Analytics

Video Content Analytics	Line Crossing, Intrusion, Loitering Detection, Parking Detection
Intelligent Motion Detection	Supported with Alarms for Vehicles and Humans
Face Detection	Capture Snapshots and Facial Attributes
Heat Map	Supported
People Counting	Tripwire and In-Area People Counting, Queue Management With Report
LumiSearch+	Supported When Used With LumiSearch+-Enabled NVRs
LumiAnalytics	Supported
Object Monitoring	Supported

## Audio

Compression	G.711a, G.711Mu, PCM
Interface	<b>Input:</b> Built-in Microphone and 1-Channel RCA Input <b>Output:</b> Built-in Speaker and 1-Channel RCA Output

## Alarm

Event	No SD Card, SD Card Full, SD Card Error, Network Disconnection, IP Conflict, Illegal Access, Motion Detection, Video Tampering, Line Crossing, Intrusion, Abandoned Object, Missing Object, Loitering Detection, Parking Detection, Scene Changing, Audio Detection, Voltage Detection, External Alarm, Face Detection, iMD, Security Exception, Area People Counting, Stay Alarm, People Counting, People Number Exception Detection
Interface	<b>Input:</b> One (1) Channel (Max. 5 VDC, 5 mA) <b>Output:</b> One (1) Channel ((Max. 12 VDC, 300 mA)

## Network

Protocol	RJ-45 (10/100 Base-T)
Protocol	IPv4, IPv6, HTTP, TCP, RTSP, RTMP, SNMP, FTP, NAS, DHCP, DDNS, QoS, UPnP, NTP, Multicast, NFS, PPPoE, SNMP
Interoperability	ONVIF (Profile S/G/T), API, SDK
Browser	Chrome, Firefox
Client	LumiViewer, LumiViewer Mobile App
Storage	FTP, NAS, Micro SD Card (Max. 512 GB)



## Electrical

Power Supply 12 VDC, PoE (802.3at), LumiPower

Power Consumption 12 VDC  
• Maximum: 11.4 W  
• Normal: 4.3 W  
PoE  
• Maximum: 12.6 W  
• Normal: 5.2 W

## Construction

Net Weight 0.6 kg (1.2 lb)

Gross Weight 0.7 kg (1.6 lb)

Operating Temperature -30 °C to 60 °C (-22 °F to 140 °F)  
< 95% RH (Non-Condensing)

Storage Temperature -40 to 60 °C (-40 to 140 °F)

Protection Ratings IP67, IK10

Dimensions 126.0 mm × 100.0 mm (5.0 in. × 3.9 in.)

Material Metal

## Certifications and Compliance

Certifications FCC, UL, IC

Compliance NDAA

## Dimensional Drawing

mm [in.]

