

8MP Network LumiLuxSmart Dome Camera (2.8 mm)

N5D-8LA2



Key Features

- 8MP Dome Housing
- 2.8 mm Lens
- LumiLuxSmart: IR and White-Light LEDs
- Video Content Analytics+: Line Crossing, Intrusion, Loitering Detection, Parking Detection
- LumiAnalytics: Face Detection, People Counting, Heat Map, Queue Management, Smart Object Detection
- LumiSearch+
- iMD, LumiTracking-E
- LumiPower

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

Luminys is lighting the way for flexible low-light solutions with the LumiLuxSmart N5 Mainstream Series, the industry's most extensive dual-functioning camera lineup.

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.

The LumiLuxSmart series provide unparalleled customization and flexibility 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. LumiSearch+ provides enhanced LumiSearch functionality by allowing users search for targets using attribute search, filter out animals using animal search, and create custom intrusion zones to monitor irregular or high-risk areas more precisely.

LumiAnalytics is the umbrella for Face Detection, People Counting, Queue Management, Smart Object Detection, and Heat Map. These analytics use 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.

LumiTracking-E technology enhances security and efficiency using electronical tracking of people and vehicles. It uses advanced AI algorithms to monitor and predict the direction and speed of moving targets, enabling quick response to potential issues for enhanced security and smooth operation.

Specifications

Camera	
Luminys Series	N5 Series (Mainstream)
Image Sensor	1/1.8-in. 8MP Progressive CMOS
Maximum Resolution	3840 × 2160
Minimum Illumination	Color: 0.0008 Lux at F1.4 Black/White: 0.0005 Lux at F1.4 0 Lux With IR Light On
Number of Illuminators	IR LED: Two (2) White Light: Two (2) Supports LumiLuxSmart
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	IR: Up to 30.0 m (98.0 ft) White Light: Up to 30.0 m (98.0 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
Pan/Tilt/Zoom	Pan: 0° to 355° Tilt: 0° to 80° Zoom: 0° to 355°
S/N Ratio	> 50 dB

Lens	
Iris Type	Fixed
Lens Type	Fixed
Focal Length	2.8 mm
Maximum Aperature	F1.4
Field of View	Horizontal: 110° Vertical: 57° Diagonal: 134°
Close Focus Range`	1.9 m (6.2 ft)
DORI Distance	Detect: 98.9 m (324.2 ft) Observe: 39.6 m (129.9 ft) Recognize: 19.8 m (65.0 ft) Identify: 9.9 m (32.5 ft)

Video	
Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Sub Stream Only)
Stream Capability	Three (3) Streams
Resolution	8MP (3840 × 2160), 6MP (3072 × 2048), 5MP (3072 × 1728/2592 × 1944), 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 × 480), VGA (640 × 480), CIF (352 × 240)
Maximum Frame Rate	Main Stream: 3840 × 2160 at 30 fps Sub Stream 1: D1 at 30 fps Sub Stream 2: 1080p at 30 fps
Video Bit Rate	H.265: 3 kbps to 17,664 kbps H.264: 3 kbps to 17,664 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
Visual Angle	0°/90°/180°/270° (Supports 90°/270° with 4MP Resolution and Lower)
Mirror Image	Supported
Defog	Supported

Video	
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
LumiTracking-E	Automatically Tracks an Object in Motion on a Fixed Camera
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	Face Detection, People Counting, Heat Map, Queue Management, Smart Object Detection
Object Monitoring	Supported

Audio	
Compression	G.711a, G.711Mu, PCM, AAC
Sampling Rates	PCM: 8,000 Hz, 16,000 Hz, 32,000 Hz G.711A: 8,000 Hz G.711Mu: 8,000 Hz AAC: 8,000 Hz, 16,000 Hz, 32,000 Hz, 48,000 Hz, 64,000 Hz
Interface	Input: Built-in Microphone and 1-channel RCA Input Output: Built-in Speaker and 1-channel RCA Output

Alarm	
Event	No SD Card, SD Card Full, SD Card Error, Offline, IP Conflict, Unauthorized 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	Input: One (1) Channel (Max. 5 VDC, 5 mA) Output: One (1) Channel ((Max. 12 VDC, 300 mA)

Network	
Interface	RJ-45 (10/100 Base-T)
Protocol	IPv4, IPv6, HTTP, TCP, RTSP, RTMP, SNMP, FTP, NAS, DHCP, DDNS, QoS, UPnP, NTP, Multicast, NFS, PPPoE
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: 8.1 W
	• Normal: 4.1 W
	PoE
	• Maximum: 9.8 W
	• Normal: 5.2 W

Construction

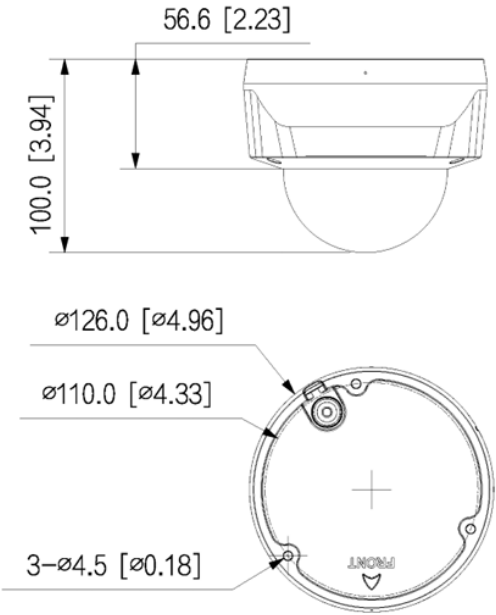
Net Weight	0.6 kg (1.2 lb)
Gross Weight	0.7 kg (1.6 lb)
Operating Temperature	-40 to 60 °C (-40 to 140 °F) < 95% RH (Non-Condensing)
Storage Temperature	-40 to 60 °C (-40 to 140 °F)
Protection Ratings	IP67, IK10
Dimensions	126.0 mm × 100.0 mm (5.0 in. × 4.0 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, IC
Compliance	NDAА

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	N5D/N5T/N3T-W01	Wall Mount Bracket
Horizontal Pole Mount*	N5D/N5T/N3T-W01	Wall Mount Bracket
	N3/N5-P01	Pole Mount Bracket
Vertical Pole Mount*	N5D/N5T/N3T-A01	Adapter Plate for Mini Dome and Eyeball Camera
	N5D/N5T/N3T/N5P-E01	Pendant Mount Bracket of Mini Dome & Eyeball Camera
	P01	Pole Mount Bracket
Pendant Mount*	N5D/N5T/N3T-A01	Adapter Plate for Mini Dome and Eyeball Camera
	N5D/N5T/N3T/N5P-E01	Pendant Mount Bracket for Mini Dome and Eyeball Camera
Corner Mount*	N5D/N5T/N3T-A01	Adapter Plate of Mini Dome and Eyeball Camera
	N5D/N5T/N3T/P45/P5-W01	Wall Mount Bracket
	C01	Corner Mount Bracket
In-Ceiling Mount	N5D-M01	In-Ceiling Mount Bracket
Miscellaneous Accessories	N5D-B01	Smoked Polycarbonate Replacement Bubble (3.4 in.)

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