

# 4MP Network LumiLuxSmart Bullet Camera (2.8 mm)

N5B-4LA2



## Key Features

- 4MP Bullet Housing
- 2.8 mm Fixed 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
- LumiPower
- 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

Luminys is lighting the way for flexible low-light solutions with the LumiLuxSmart 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.

**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.

**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                | Mainstream                                                                                         |
| Image Sensor                  | 1/1.8-in. 4MP Progressive CMOS                                                                     |
| Maximum Resolution            | 2688 × 1520                                                                                        |
| Minimum Illumination          | <b>Color:</b> 0.0005 Lux (F1.0)<br><b>Black/White:</b> 0.0003 Lux (F1.0)<br>0 Lux With IR Light On |
| Number of Illuminators        | <b>IR LED:</b> Two (2)<br><b>White Light:</b> Two (2)<br>Supports LumiLuxSmart                     |
| Illuminator Control           | Automatic, Manual                                                                                  |
| Maximum Illumination Distance | <b>IR:</b> Up to 30.0 m (98.4 ft)<br><b>White Light:</b> Up to 30.0 m (98.4 ft)                    |
| Electronic Shutter Speed      | Automatic, Manual<br>1/3 s to 1/100,000 s                                                          |
| Pan/Tilt/Zoom                 | <b>Pan/Zoom:</b> 0°–360°<br><b>Tilt:</b> 0°–90°                                                    |
| S/N Ratio                     | > 50 dB                                                                                            |

## Lens

|                    |                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Iris Type          | Fixed                                                                                                                                          |
| Lens Type          | Fixed                                                                                                                                          |
| Focal Length       | 2.8 mm                                                                                                                                         |
| Maximum Aperature  | F1.0                                                                                                                                           |
| Field of View      | <b>Horizontal:</b> 111°<br><b>Vertical:</b> 60°<br><b>Diagonal:</b> 135°                                                                       |
| Close Focus Range` | 1.7 m (5.6 ft)                                                                                                                                 |
| DORI Distance      | <b>Detect:</b> 56.6 m (185.7 ft)<br><b>Observe:</b> 22.6 m (74.8 ft)<br><b>Recognize:</b> 11.3 m (37.1 ft)<br><b>Identify:</b> 5.7 m (18.7 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         | 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 x 1520 at 30 fps<br><b>Sub Stream 1:</b> D1 at 30 fps<br><b>Sub Stream 2:</b> 1080p at 30 fps                                                                                        |
| Video Bit Rate     | <b>H.265:</b> 12 kbps to 11776kbps<br><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                                                                                                                                                                                                     |
| Defog              | Supported                                                                                                                                                                                                     |
| Region of Interest | Four (4) Zones                                                                                                                                                                                                |

## Video

|                 |                |
|-----------------|----------------|
| 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                | Face Detection, People Counting, Heat Map, Queue Management, Smart Object Detection |
| Object Monitoring            | Supported                                                                           |

## Audio

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

## Alarm

|           |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event     | No SD Card, Disk Full, SD Card Error, Offline, IP Conflict, Illegal Access, Motion Detection, Video Tampering, Line Crossing, Intrusion, 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, Object Monitoring |
| Interface | <b>Input:</b> One (1) Channel (Max. 5 VDC, 5 mA)<br><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, Edge                                                                                      |
| 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 | <b>12 VDC</b> <ul style="list-style-type: none"><li>• <b>Maximum:</b> 8.0 W</li><li>• <b>Normal:</b> 3.8 W</li></ul> <b>PoE</b> <ul style="list-style-type: none"><li>• <b>Maximum:</b> 9.5 W</li><li>• <b>Normal:</b> 4.9 W</li></ul> |



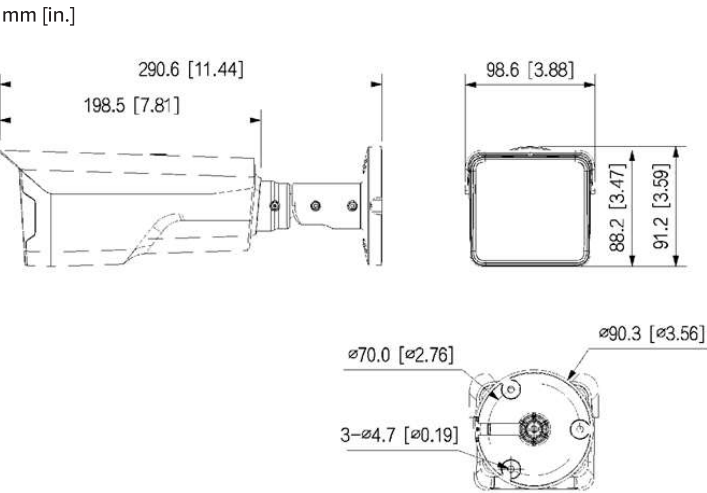
Construction

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Net Weight            | 1.1 kg (2.3 lb)                                                 |
| Gross Weight          | 1.3 kg (2.9 lb)                                                 |
| Operating Temperature | -40 °C to 60 °C (-40 °F to 140 °F)<br>< 95% RH (Non-Condensing) |
| Storage Temperature   | -40 °C to 60 °C (-40 °F to 140 °F)                              |
| Protection Ratings    | IP67, IK10                                                      |
| Dimensions            | 290.6 mm × 98.6 mm × 88.2 mm<br>(11.4 in. × 3.9 in. × 3.5 in.)  |
| Material              | Metal                                                           |

Certifications and Compliance

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

Dimensional Drawing



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*         | N5B-J01<br>(Must be Purchased Separately)   | Junction Box for Select Standard Size Bullet Camera Models                   |
|                       | N5B-A01<br>(Must be Purchased Separately)   | G3/4 in. Water Joint for Standard Size Bullet Junction Boxes                 |
| Vertical Pole Mount*  | N5B-J01<br>(Must be Purchased Separately)   | Junction Box for Select Standard Size Bullet Camera Models                   |
|                       | N5B-A01<br>(Must be Purchased Separately)   | G3/4 in. Water Joint for Standard Size Bullet Junction Boxes                 |
|                       | N3/N5-P01<br>(Must be Purchased Separately) | Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras |
| Corner Mount*         | N5B-J01<br>(Must be Purchased Separately)   | Junction Box for Select Standard Size Bullet Camera Models                   |
|                       | N5B-A01<br>(Must be Purchased Separately)   | G3/4 in. Water Joint for Standard Size Bullet Junction Boxes                 |
|                       | C01<br>(Must be Purchased Separately)       | Corner Mount Bracket for N3/N5/N9/P4/P5 Series Cameras                       |

\*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.