

# 8MP Network LumiColor Turret Camera (2.8 mm)

N5T-8CA2



## Key Features

- 8MP Turret Housing
- 2.8 mm Lens
- LumiColor With 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
- 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

The **N5T-8CA2** is part of Luminys's Mainstream series of security devices. Mainstream series devices are designed with a suite of advanced LumiTechnologies to meet the needs of today's evolving security market.

## Key Technologies

**LumiColor** technology allows you to capture color footage in complete darkness (0 lux). Cameras with this technology have integrated white-light LEDs to illuminate scenes in low lighting. The integrated white lights work in combination with a large aperture lens to capture more available light and reproduce color images with superior detail and contrast.

**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** 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.

**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. 8MP Progressive CMOS                                                  |
| Maximum Resolution            | 3840 × 2160                                                                     |
| Minimum Illumination          | 0.0005 Lux at F1.0<br>0 Lux With IR/White-Light On                              |
| Number of Illuminators        | Two (2) White-Light LEDs                                                        |
| Illuminator Control           | Automatic, Manual                                                               |
| Maximum Illumination Distance | Up to 30.0 m (98.4 ft)                                                          |
| Electronic Shutter Speed      | Automatic, Manual<br>1/3 s to 1/100,000 s                                       |
| Installation Angle            | <b>Pan:</b> 0° to 360°<br><b>Tilt:</b> 0° to 78°<br><b>Rotation:</b> 0° to 360° |
| S/N Ratio                     | > 56 dB                                                                         |

## Lens

|                   |                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Iris Type         | Fixed                                                                                                                                            |
| Lens Type         | Fixed                                                                                                                                            |
| Focal Length      | 2.8 mm                                                                                                                                           |
| Maximum Aperature | F1.0                                                                                                                                             |
| Field of View     | <b>Horizontal:</b> 110°<br><b>Vertical:</b> 59°<br><b>Diagonal:</b> 130°                                                                         |
| Close Focus Range | 1.6 m (5.3 ft)                                                                                                                                   |
| DORI Distance     | <b>Detect:</b> 95.6 m (313.6 ft)<br><b>Observe:</b> 38.2 m (125.3 ft)<br><b>Recognize:</b> 19.1 m (313.6 ft)<br><b>Identify:</b> 9.6 m (31.5 ft) |

## Video

|                    |                                                                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression        | LumiFocus, H.265, H.264, H.264H, H.264B, MJPEG (Sub Stream Only)                                                                                                                                                                               |
| Stream Capability  | Three (3) Streams                                                                                                                                                                                                                              |
| Resolution         | 8MP (3840 × 2160), 6MP (3072 × 2048), 5MP (3072 × 1728/2592× 1944), 4MP (2688 × 1520/2560 × 1440), 3MP (2304 × 1296/2048 × 1536), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 480), VGA (640 × 480), CIF (352 × 240) |
| Maximum Frame Rate | <b>Main Stream:</b> 3840 × 2160 at 30 fps<br><b>Sub Stream 1:</b> D1 at 30 fps<br><b>Sub Stream 2:</b> 1920 × 1080 at 30 fps                                                                                                                   |
| Video Bit Rate     | <b>H.265:</b> 12 kbps to 16384 kbps<br><b>H.264:</b> 32 kbps to 16384 kbps                                                                                                                                                                     |
| Bit Rate Control   | CBR/VBR                                                                                                                                                                                                                                        |
| Day/Night          | Color, Black and White                                                                                                                                                                                                                         |
| Light Balancing    | Wide Dynamic Range (120 dB)                                                                                                                                                                                                                    |
| Noise Reduction    | 3D NR                                                                                                                                                                                                                                          |
| Image Rotation     | 0°/90°/180°/270° (Supports 90°/270° With 4MP Resolution and Lower)                                                                                                                                                                             |
| Mirroring          | 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                | Face Detection, People Counting, Heat Map, Queue Management, Smart Object Detection |
| Object Monitoring            | Supported                                                                           |

## Audio

|             |                                   |
|-------------|-----------------------------------|
| Compression | PCM, G.711a, G.711Mu, AAC         |
| Interface   | <b>Input:</b> Built-in Microphone |

## Alarm

|       |                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | No SD Card, SD Card Full, SD Card Error, Network Disconnection, IP Conflict, Illegal Access, Motion Detection, Video Tampering, Voltage Detection, Security Exception, Line Crossing, Intrusion, Fast Moving, Loitering Detection, Aggregate Detection, Scene Changing, Audio Detection, Face Detection, IMD, Area People Counting, Stay Alarm, People Number Exception Detection, Object Monitoring |
| Event |                                                                                                                                                                                                                                                                                                                                                                                                      |

## Network

|                  |                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface        | RJ-45 (10/100 Base-T)                                                                                                                                       |
| Protocol         | IPv4, IPv6, HTTP, HTTPS, TCP, UDP, ARP, RTP , RTSP, RTCP, RTMP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, NTP, Multicast, ICMP, IGMP, NFS, PPPoE, 802.1x |
| Interoperability | ONVIF (Profile S/G/T), API, SDK                                                                                                                             |
| Browser          | Chrome, Firefox                                                                                                                                             |
| Client           | LumiViewer, LumiViewer Mobile App                                                                                                                           |
| Storage          | FTP, SFTP, NAS, MicroSD Card (Max. 512 GB)                                                                                                                  |

## Electrical

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



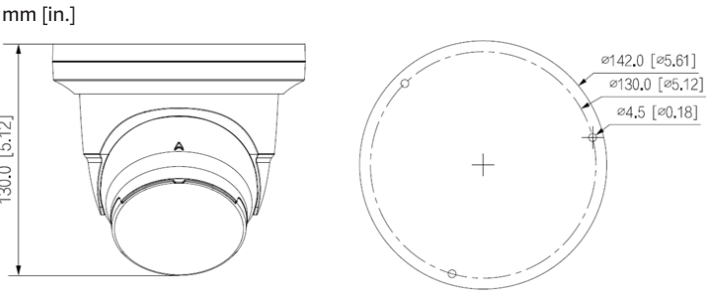
Electrical

|                   |                  |
|-------------------|------------------|
| Power Consumption | 12 VDC           |
|                   | • Maximum: 7.9 W |
|                   | • Normal: 3.6 W  |
|                   | PoE              |
|                   | • Maximum: 9.6 W |
|                   | • Normal: 5.0 W  |

Construction

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Net Weight            | 0.8 kg (1.7 lb)                                                 |
| Gross Weight          | 1.0 kg (2.1 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                                                            |

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 Luminy's 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           | LUM-J04<br><i>(Must be Purchased Separately)</i> | Junction Box for Standard Size Turret Camera Models                                                |
| Wall Mount             | LUM-W04<br><i>(Must be Purchased Separately)</i> | Wall Mount Bracket for Standard Size Turret Cameras                                                |
| Horizontal Pole Mount* | LUM-W04<br><i>(Must be Purchased Separately)</i> | Wall Mount Bracket for Standard Size Turret Cameras                                                |
|                        | LUM-P02<br><i>(Must be Purchased Separately)</i> | Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras                       |
| Vertical Pole Mount*   | LUM-J04<br><i>(Must be Purchased Separately)</i> | Junction Box for Standard Size Turret Camera Models                                                |
|                        | LUM-P02<br><i>(Must be Purchased Separately)</i> | Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras                       |
| Pendant Mount*         | LUM-A02<br><i>(Must be Purchased Separately)</i> | Adapter Plate for N5T/N5P Series Turret Cameras                                                    |
|                        | LUM-E02<br><i>(Must be Purchased Separately)</i> | Ceiling Mount Bracket for Select Fisheye, Standard Size Turret, Multi-Directional, and PTZ 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.