4MP Network LumiLuxSmart Turret Camera

N5T-4LA2

Key Features

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

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	**Color:** 0.0005 Lux **Black/White:** 0.0003 Lux 0 Lux With IR Light On
Number of Illuminators	Two (2) Dual-Core (IR and White Light) LEDs, Supports LumiLuxSmart
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	**IR:** Up to 30.0 m (98.4 ft) **White Light:** Up to 30.0 m (98.4 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
Pan/Tilt/Zoom	**Pan/Zoom:** 0°–360° **Tilt:** 0°–78°
S/N Ratio	> 50 dB

Lens

Iris Type	Fixed
Lens Type	Fixed
Focal Length	2.8 mm
Maximum Aperature	F1.0
Field of View	**Horizontal:** 111° **Vertical:** 60° **Diagonal:** 135°
Close Focus Range`	1.7 m (5.6 ft)
DORI Distance	**Detect:** 56.6 m (185.7 ft) **Observe:** : 22.6 m (74.8 ft) **Recognize:** 11.3 m (37.1 ft) **Identify:** 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	**Main Stream:** 2688 x 1520 at 1–30 fps **Sub Stream 1:** D1 at 1–30 fps **Sub Stream 2:** 1080p at 1–30 fps
Video Bit Rate	**H.264:** 32 kbps to 16,384 kbps **H.265:** 12 kbps to 11,776 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

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
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	**Input:** Built-in Microphone and 1-channel RCA Input **Output:** 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	**Input:** One (1) Channel (Max. 5 VDC, 5 mA) **Output:** 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
Strorage	FTP, NAS, Micro SD Card (Max. 512 GB)

Electrical

Power Supply	12 VDC, PoE (802.3at), LumiPower
Power Consumption	**12 VDC** • **Maximum:** 8.0 W • **Normal:** 3.7 W **PoE** • **Maximum:** 9.4 W • **Normal:** 4.8 W

Construction

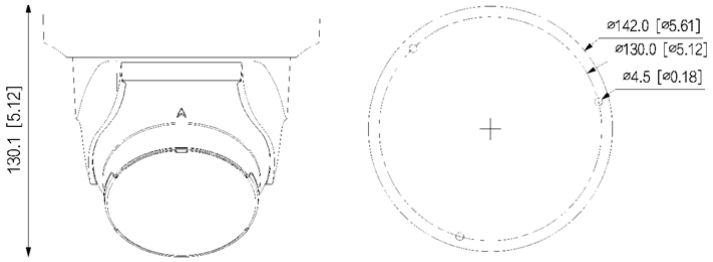
Net Weight	0.8 kg (1.7 lb)
Gross Weight	1.0 kg (2.1 lb)
Operating Temperature	-40 to 60 °C (-40 to 140 °F) < 95% RH (Non-Condensing)
Storage Temperature	-40 to 60 °C (-40 to 140 °F)
Protection Ratings	IP67
Dimensions	142.0 mm × 130.1 mm (5.6 in. × 5.1 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]



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	N5T/N5P-J01 *(Must be Purchased Separately)*	Junction Box for Standard Size Turret Camera Models
Wall Mount	N5T/N5P-W01 *(Must be Purchased Separately)*	Wall Mount Bracket for Standard Size Turret Cameras
Horizontal Pole Mount*	N5T/N5P-W01 *(Must be Purchased Separately)*	Wall Mount Bracket for Standard Size Turret Cameras
	N3/N5-P01 *(Must be Purchased Separately)*	Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras
Vertical Pole Mount*	N5T/N5P-J01 *(Must be Purchased Separately)*	Junction Box for Standard Size Turret Camera Models
	N3/N5-P01 *(Must be Purchased Separately)*	Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras
Pendant Mount*	N5T/N5P-A02 *(Must be Purchased Separately)*	Adapter Plate for N5T/N5P Series Turret Cameras
	N9F/P4/P5-E01 *(Must be Purchased Separately)*	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.

Rev. 3 | © 2025 Luminys Systems Corporation. All rights reserved. Design and specifications are subject to change without notice.