

# 8MP Network LumiDeterrent Turret Camera (Vari-Focal)

N5T-8DAV



## Key Features

- 8MP Turret Housing
- 2.7 mm to 13.5 mm Motorized Lens
- LumiLuxSmart — IR and White-Light LEDs
- LumiDeterrent With Red/Blue Lights and Built-In Speaker
- Video Content Analytics+!: Line Crossing, Intrusion, Loitering Detection
- iMD, LumiSearch
- 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-8DAV** 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

**LumiDeterrent** technology integrates full-color video, active deterrence, and AI algorithms to provide 24/7 security. This technology can accurately identify potential risks and prevent incidents with red and blue light alarms and enhanced sound alarms.

**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 video 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 video captured by any LumiSearch-enabled camera and NVR.

**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	1/2.8-in. 8MP Progressive CMOS
Maximum Resolution	3840 × 2160
Minimum Illumination	<b>Color:</b> 0.002 Lux at F1.0 <b>Black/White:</b> 0.0002 Lux at F1.0 0 Lux With IR Light On
Number of Illuminators	<b>IR:</b> Two (2) <b>White Light:</b> Two (2)
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	<b>IR:</b> Up to 50.0 m (164.0 ft) <b>White Light:</b> Up to 40.0 m (131.0 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
Installation Angle	<b>Pan:</b> 0° <b>Tilt:</b> 0° to 90° <b>Rotation:</b> 0° to 360°
S/N Ratio	> 56 dB

## Lens

Iris Type	Fixed
Lens Type	Motorized Vari-Focal
Focal Length	2.7 to 13.5 mm
Maximum Aperature	F1.0
Field of View	<b>Horizontal:</b> 108° to 34° <b>Vertical:</b> 56° to 19° <b>Diagonal:</b> 130° to 39°
Close Focus Range	1.5 m (4.9 ft)
DORI Distance	<b>Detect:</b> 89.9 m to 257.4 m (295.0 ft to 844.5 ft) <b>Observe:</b> 36.0 m to 103.0 m (118.1 ft to 377.9 ft) <b>Recognize:</b> 18.0 m to 51.5 m (59.1 ft to 169.0 ft) <b>Identify:</b> 9.0 m to 25.7 m (29.5 ft to 84.3 ft)

## Video

Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Substream Only)
Stream Capability	Three (3) Streams
Resolution	3840 × 2160 (8MP), 3072 × 2048 (6MP), 3072 × 1728 (5MP), 2592 × 1944 (5MP), 2688 × 1520 (4MP), 2560 × 1440 (4MP), 2304 × 1296 (3MP), 2048 × 1536 (3MP), 1920 × 1080 (1080p), 1280 × 960 (1.3MP), 1280 × 720 (720p), 704 × 480 (D1), VGA 640 × 480 (480p), 352 × 240 (CIF)
Maximum Frame Rate	<b>Mainstream:</b> 3840 × 2160 at 30 fps <b>Substream 1:</b> 704 × 480 at 30 fps <b>Substream 2:</b> 1920 × 1080 at 30 fps
Video Bit Rate	<b>H.264:</b> 32 to 16384 kbps <b>H.265:</b> 12 to 16384 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

## Video

Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 4MP Resolution and Lower)
Mirroring	Supported
Region of Interest	Four (4) Zones
Privacy Masking	Eight (8) Zones

## Analytics

Video Content Analytics+1	Line Crossing, Intrusion, Loitering Detection
Intelligent Motion Detection	Supported With Alarms for Vehicles and Humans
LumiSearch	Supported When Used With LumiSearch-Enabled NVRs

## Audio

Compression	PCM, G.711a, G.711Mu, AAC
Interface	<b>Input:</b> Built-in Dual Microphones and One (1) RCA Port <b>Output:</b> Built-in Speaker and One (1) RCA Port

## Alarm

Event	No SD Card, Disk Full, SD Card Error, Offline, IP Conflict, Illegal Access, Motion Detection, Video Tampering, Voltage Detection, Security Exception, Line Crossing, Intrusion, Scene Changing, Audio Detection, External Alarm, iMD
Interface	<b>Input:</b> One (1) Channel (3V-5VDC, 5 mA) <b>Output:</b> One (1) Channel (12 VDC, 300 mA)

## Network

Protocol	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, Edge
Client	LumiViewer, LumiViewer Mobile App
Storage	FTP, SFTP, NAS, Micro SD Card (Max. 256 GB)

## Electrical

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	<b>12 VDC</b> <ul style="list-style-type: none"><li>• Maximum: 10.3 W</li><li>• Normal: 4.5 W</li></ul> <b>PoE</b> <ul style="list-style-type: none"><li>• Maximum: 12.1 W</li><li>• Normal: 5.8 W</li></ul>

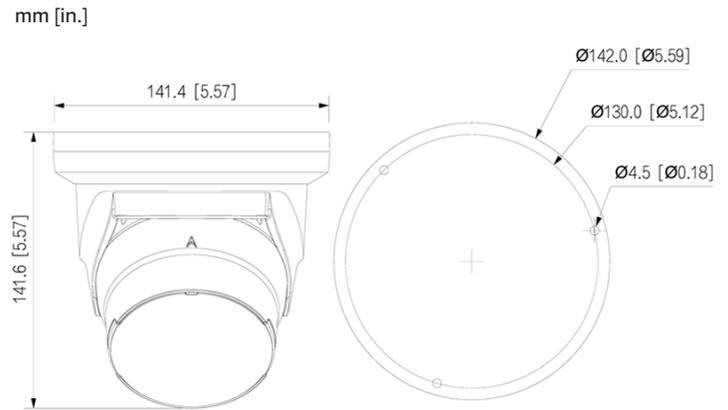
## Construction

Net Weight	0.9 kg (2.0 lb)
Gross Weight	1.2 kg (2.5 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	141.6 mm × Ø 142.0 mm (5.6 in. × Ø 5.6 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 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	N5T/N5P-J01 <i>(Must be Purchased Separately)</i>	Junction Box for Standard Size Turret Camera Models
Wall Mount	N5T/N5P-W01 <i>(Must be Purchased Separately)</i>	Wall Mount Bracket for Standard Size Turret Cameras
Horizontal Pole Mount*	N5T/N5P-W01 <i>(Must be Purchased Separately)</i>	Wall Mount Bracket for Standard Size Turret Cameras
	N3/N5-P01 <i>(Must be Purchased Separately)</i>	Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras
Vertical Pole Mount*	N5T/N5P-J01 <i>(Must be Purchased Separately)</i>	Junction Box for Standard Size Turret Camera Models
	N3/N5-P01 <i>(Must be Purchased Separately)</i>	Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras
Pendant Mount*	N5T/N5P-A02 <i>(Must be Purchased Separately)</i>	Adapter Plate for N5T/N5P Series Turret Cameras
	N9F/P4/P5-E01 <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.

1. This camera does not support Parking Detection.