

# 4MP Network LPR Camera (Vari-Focal)

N9L-4RAL



## Key Features

- 4MP Bullet Housing
- 10 to 50 mm Motorized Lens
- License Plate Recognition Speed up to 60 kmh (37 mph)
- IR Distance up to 98 ft
- LumiAnalytics
- ANPR with 99% Accuracy

## Certifications and Compliance

- NDAA Compliant
- FCC
- IC
- UL



Learn more about this camera's key technologies.



View all compatible accessories for this camera.

## Overview

The **N9L-4RAL** is part of Luminy's N9 series of specialty security devices. Designed to improve operations and go beyond today's highest security standards, N9 series devices provide increased situational awareness for comprehensive security.

## Key Technologies

**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.

# Specifications

## Camera

Luminys Series	N9 Series (Specialty)
Image Sensor	1/1.8-in. 4MP Progressive CMOS
Maximum Resolution	2688 × 1520 (OSD Black Strip Excluded)
Minimum Illumination	0.002 Lux (Built-In Illuminator On)
Number of Illuminators	Six (6) IR Illuminators With Adjustable Brightness
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	Up to 30.0 m (98.4 ft)
Maximum Detection Speed	60.0 km/h (196850.4 ft/h)
Detection Width	6 to 7 m (19.7 to 23.0 ft)
Capture Distance	8.0 to 30.0 m (26.3 to 98.4 ft)
Trigger Mode	Video Detection, I/O Coil
Shutter Mode	Single Shutter
Electronic Shutter Speed	Automatic, Manual 1/25 s–1/10,000 s

## Lens

Lens Mount	Module
Iris Type	Automatic (W:1.33—T:1.34)
Lens Type	Motorized Vari-Focal
Focal Length	10 to 50 mm (0.4 to 2.0 in.)
Field of View	<b>Horizontal:</b> 40.55° (W)–9.33° (T) <b>Vertical:</b> 22.7° (W)–5.3° (T) <b>Diagonal:</b> 46.6° (W)–10.63° (T)

## Video

Compression	H.265, H.264M, H.264H, MJPEG
Image Encoding Format	JPEG
Stream Capability	Two (2) Streams
Resolution	<b>Main Stream:</b> 4MP (2688×1520), UXGA (1600×1200), 1080p (1920×1080), 720p (1280 × 720) <b>Sub Stream:</b> 720p (1280 × 720), 960H (960× 480), D1 (704 × 480), CIF (352 × 240)
Maximum Frame Rate	<b>Main Stream:</b> 2688 × 1520/1600 × 1200/1920 × 1080/1280 × 720 at 1–30 fps <b>Sub Stream:</b> 1280 × 720/960 × 480/704 × 408/352 × 240 at 1–30 fps
Video Bit Rate	<b>H.264/H.265:</b> 2615 to 15689 kbps <b>MJPEG:</b> 7845 to 47068 kbps
Light Balancing	Wide Dynamic Range (96 dB)
White Balancing	Automatic, Regional Custom, Manual, Outdoor, Natural Lighting, Street Lamp
Exposure Mode	Fully Automatic, Customized Automatic, Manual
Noise Reduction	3D NR
Edge Enhancement	Supported
OSD Overlay	Time, Address, Plate, Vehicle (Color, Type) Vehicle Position, Counterfeit, Checkpoint Direction, Trigger Source, Custom
Image Tampering Prevention	Watermark, Verification Function

## Analytics

Vehicle Detection Rate	≥ 99%
Vehicle Recognition Rate	≥ 95%
Vehicle Recognition Attributes	Vehicle Type/Color, Front-Seat Passenger, Licensed/Unlicensed
LumiAnalytics	Supported
Smart Track Frame	Displays Plate and Vehicle Path

## Audio

Compression	G.711a, G.711Mu, PCM
Interface	<b>Output:</b> One (1) Channel (RCA port)

## Alarm

Event	No SD Card, SD Card Full, SD Card Error, Network Disconnection, IP Conflict, Illegal Access
Interface	<b>Input:</b> 2-Channel Optocoupler (On/Off) <b>Output:</b> 2-Channel Relay (Can Be Used to Connect Other Devices)

## Network

Interface	One (1) RJ-45 (100/1000 Mbps Ethernet) Port, Two (2) RS-485 Ports, One (1) Wiegand Channel
Auto Registration	Supported
Security	Username/Password, MAC Address Binding, HTTPS Encryption, IEEE 802.1x, Network Access Control
Automatic Network Replenishment (ANR)	Supported via Platform/FTP
Storage	Built-In 1 TF Card Port (Max. 128 GB)

## Electrical

Power Supply	12 VDC, PoE+
Power Consumption	< 20 W

## Construction

Net Weight	3.2 kg (7.05 lb)
Gross Weight	5.2 kg (11.46 lb)
Operating Temperature	-30 to 65 °C (-22 to 149 °F) 10 to 90% RH (Non-Condensing)
Protection Ratings	IP67
Product Dimensions (L × W × H)	497.4 × 121.6 × 130.0 mm (19.6 × 4.8 × 5.1 in.)
Packaging Dimensions (L × W × H)	625.0 × 305.0 × 270.0 mm (24.6 × 12.0 × 10.6 in.)
Installation	Wall, Pole, or Ceiling Mount
Material	Metal and Plastic

## Certifications and Compliance

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## Dimensional Drawing

