

# 12MP Network Fisheye 360-Degree Camera

N9F-12RA1



## Key Features

- 12MP Fisheye Dome Housing
- 1.85 mm Lens
- 360° or 180° Stitched Single-sensor
- 1.85 mm Lens
- IR Distance 33 ft
- Video Content Analytics: Line Crossing and Intrusion
- People Counting, Queue Management, Heat Map

## 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 **N9F-12RA1** is part of Luminys's N9 series of specialty security devices. Designed to improve operations and go beyond today's highest security standards, N9 series devices give you 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 (Speciality)
Image Sensor	1/1.7-in. 12MP Progressive CMOS
Maximum Resolution	4000 × 3000
Minimum Illumination	<b>Color:</b> 0.01 Lux (F2.0) <b>Black/White:</b> 0.001 Lux (F2.0) 0 Lux With IR Light On
Number of Illuminators	Three (3) IR LEDs
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	10 m (32.81 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
S/N Ratio	> 56 dB

## Lens

Type	Fixed
Focal Length	1.85 mm
Maximum Aperature	F2.0
Field of View	<b>Horizontal:</b> 185° <b>Vertical:</b> 180°
Close Focus Range`	0.4 m (1.31 ft)
DORI Distance	<b>Detect:</b> 40.0 m (131.2 ft) <b>Observe:</b> 16.0 m (52.5 ft) <b>Recognize:</b> 8.0 m (26.2 ft) <b>Identify:</b> 4.0 m (13.1 ft)

## Video

Compression	H.265, H.264, H.264H, H.264B, MJPEG (Sub Stream Only)
Stream Capability	Three (3) Streams
Resolution	4000 × 3000, 3280 × 2480, 2880 × 2160, 3M (2048 × 1536), 1.3M (1280 × 960), D1 (704 × 576/704 × 480), CIF (352 × 288/352 × 240)
Maximum Frame Rate	<b>Main Stream:</b> 4000 × 3000 at 1–25 fps <b>Sub Stream 1:</b> 704 × 576 at 1–30 fps <b>Sub Stream 2:</b> 1280 × 960 at 1–17 fps <b>Fisheye Mode:</b> 1O (4000 × 3000), 1P (4096 × 1024), 2P (2432 × 2432), 1R (1216 × 1216), 2R (2432 × 2432), 4R (2432 × 2432), 1O+3R (2432 × 2432)
Video Bit Rate	<b>H.265:</b> 3 kbps to 16384 kbps <b>H.264:</b> 8 kbps to 16384 kbps
Bit Rate Control	CBR/VBR
Day/Night	Automatic (ICR), Color, Black and White
Light Balancing	DWDR
Noise Reduction	3D NR
Region of Interest	Four (4) Zones
Privacy Masking	Four (4) Zones

## Analytics

Video Content Analytics	Line Crossing, Intrusion
People Counting	Tripwire and In-Area People Counting, Queue Management With Report
Heat Map	Supported

## Audio

Capability	Two-Way Audio
Compression	G.711A, G.711Mu, PCM, G.726, G.723
Interface	<b>Input:</b> Built-In Dual Microphones and 1-channel RCA Port <b>Output:</b> Built-In Speaker and 1-Channel RCA Port

## Alarm

Event	No SD Card, SD Card Full, SD Card Error, Network Disconnection, IP Conflict, Illegal Access, Motion Detection, Video Tampering, Voltage Detection, Security Exception, Tripwire, Intrusion, Scene Changing, Audio Detection, External Alarm, People Counting In Area, Stay Detection, People Counting; Security Exception
Interface	<b>Input:</b> Two (2) Channels 5mA 3V-5VDC <b>Output:</b> Two (2) Channels 1,000mA 30VDC/500mA 50VDC

## Network

Protocol	RJ-45
Protocol	IPv4, IPv6, TCP, UDP, RTP, RTCP, RTSP, RTMP, NTP, HTTP, ARP, SMTP, FTP, SFTP, DHCP, DNS, DDNS, QoS, UPnP, Multicast, ICMP, IGMP, NFS, PPPoE, SNMP, P2P
Interoperability	ONVIF (Profile S/G/T), API, SDK
Browser	Chrome, Firefox
Client	LumiViewer, LumiViewer Mobile App
Storage	FTP, SFTP, NAS, MicroSD Card (Max. 256 GB)

## Environmental

Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Operating Humidity	0 to 95% RH
Storage Temperature	-30 °C to 70 °C (-22 °F to 158°F)
Protection Rating	IP67, IK10

## Electrical

Power Supply	12V DC/PoE+, < 13.9W
--------------	----------------------

## Construction

Net Weight	0.79 kg (1.74 lb)
Gross Weight	1.21 kg (2.67 lb)
Dimensions	59.8 mm × Φ149.8 mm (2.35 in. × Φ5.90 in.)
Material	Metal

## Certifications and Compliance

Certifications	FCC, UL, IC
Compliance	NDA



# Dimensional Drawing

mm [in.]

