12MP Network Fisheye 360° Camera

N9F-12RA1

Key Features

- 12MP Fisheye Dome Housing
- 360° or 180° Stitched Single-Sensor
- 1.85 mm Lens
- IR Distance: 33 ft
- Video Content Analytics: Line Crossing and Intrusion
- LumiAnalytics[1]: People Counting, Queue Management, Heat Map

Certifications and Compliance

- NDAA Compliant
- FCC
- IC
- UL

Learn More

Learn more about this product's key technologies.

View all compatible accessories for this product.

Overview

The **N9F-12RA1** is part of Luminys's N9 series of specialty security devices.

This fisheye camera is programmed with LumiAnalytics People Counting and Heat Map to track target behavior and traffic. These analytics can help determine upticks and breaks in activity and if targets are crowding a specific area. This information is important for optimizing staffing and layout and preventing crowd surges and traffic jams.

Users can also view queue management analytics. Queue management creates an alert when lines become long. Queue management reports can be generated for important insight into operational efficiency and data-driven decisions.

Designed to improve operations and go beyond today's highest security standards, the **N9F-12RA1** gives you increased situational awareness for comprehensive security and important analytics for improved business.

Key Technologies

LumiAnalytics[1] 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
Minimum Illumination	**Color:** 0.01 Lux (F2.0) **Black/White:** 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	10.0 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	**Horizontal:** 185° **Vertical:** 180°
Close Focus Range`	0.4 m (1.31 ft)
DORI Distance	**Detect:** 40.0 m (131.2 ft) **Observe:** 16.0 m (52.5 ft) **Recognize:** 8.0 m (26.2 ft) **Identify:** 4.0 m (13.1 ft)

Video

Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Substream Only)
Stream Capability	Three (3) Streams
Resolution	4000 × 3000 (12MP), 3280 × 2480 (8MP), 2880 × 2160 (6MP), 2048 x 1546 (3MP), 704 x 480 (D1), 352 x 240 (CIF)
Maximum Frame Rate	**Mainstream:** 4000 x 3000 at 25 fps **Substream 1:** 704 x 576 at 30 fps **Substream 2:** 1280 x 960 at 30 fps **Fisheye Mode:** 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	**H.265:** 3 kbps to 14,336 kbps **H.264:** 8 kbps to 16,384 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	**Input:** Built-In Dual Microphone and 1-channel RCA Port **Output:** 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	**Input:** Two (2) Channels 5mA 3V-5VDC **Output:** 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, Edge
Client	LumiViewer, LumiViewer Mobile App
Strorage	FTP, SFTP, NAS, MicroSD Card (Max. 256 GB)

Electrical

Power Supply	12 VDC/PoE+, < 13.9W

Construction

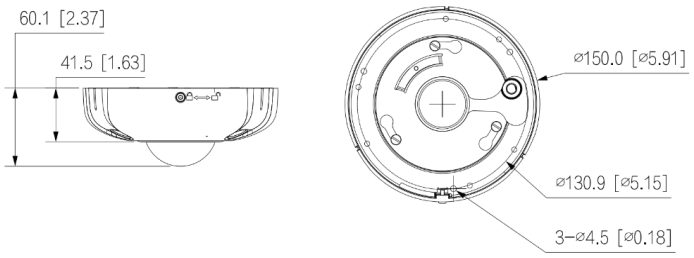
Net Weight	0.79 kg (1.74 lb)
Gross Weight	1.21 kg (2.67 lb)
Dimensions	59.8 mm × Φ149.8 mm (2.35 in. × Φ5.90 in.)
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Operating Humidity	0 to 95% RH
Storage Temperature	-30 °C to 70 °C (-22 °F to 158°F)
Protection Rating	IP67, IK10
Material	Metal

Certifications and Compliance

Certifications	FCC, UL, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]



1. This camera does not support Smart Object Detection or Face Detection.

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