8MP Network Fisheye 360-Degree Camera

N9F-8RA1

Key Features

- 8MP IR 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-8RA1** 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. 8MP Progressive CMOS
Maximum Resolution	3280×2480
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 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	H.265, H.264, H.264H, H.264B, MJPEG (Sub Stream Only)
Stream Capability	Three (3) Streams
Resolution	8MP (3280 × 2480), 6MP (2880 × 2160), 3MP (2048 × 1536), 1.3MP (1280 × 960), D1 (704 × 576/704 × 480), CIF (352 ×288/352 × 240)
Maximum Frame Rate	**Main Stream:** 3280 × 248 at 1–30 fps **Sub Stream 1:** 704 x 480 at 1–30 fps **Sub Stream 2:** 1920 x 1080 at 1–30 fps **Fisheye Mode:** 1O (3280 × 2480), 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 13891 kbps **H.264:** 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	Input: Built-In Dual Microphones 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, Line Crossing, 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
Client	LumiViewer, LumiViewer Mobile App
Strorage	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

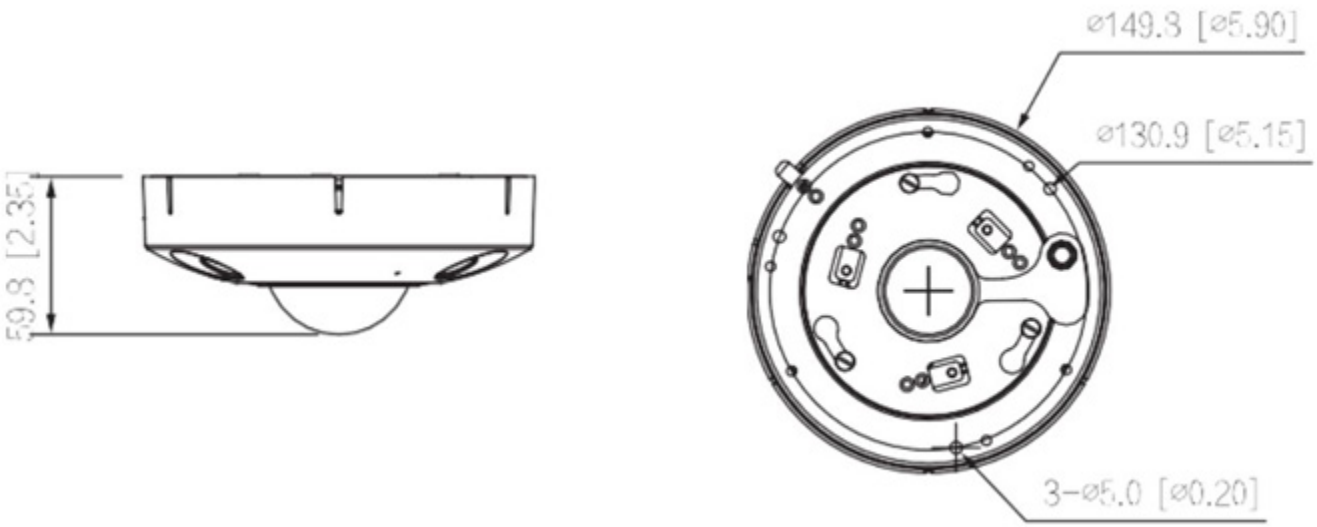
Net Weight	0.8 kg (1.7 lb)
Gross Weight	1.2 kg (2.7 lb)
Dimensions	59.8 mm × Φ 149.8 mm (2.4 in. × Φ 5.9 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, UL, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]



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