4MP Network LumiNightKing Bullet Camera (2.8 mm)

N4B-4VA2

Key Features

- 4MP Bullet Housing
- 2.8 mm Lens
- AI-ISP
- White-Light LEDs
- Video Content Analytics: Line Crossing, Intrusion
- iMD
- 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 **N4B-4VA2** 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.

Equipped with LumiNightKing technology, this camera provides flexible and reliable full-color video in near-dark conditions. It supports covert monitoring with no LEDs or 24/7 white-light LEDs for deterrent monitoring. This camera is also designed with LumiPolarPro and LumiDesertPro technologies to withstand extreme environments. It has both 12 VDC and PoE (Power over Ethernet) for flexible installation.

LumiNightKing cameras are built for mission-critical surveillance in challenging environments such as industrial facilities, transportation hubs, night clubs, and outdoor perimeters. Their dual-purpose capability makes the series ideal for security applications that want a discrete camera to preserve the ambiance of a scene and for scenes that need a visible presence from continuous white-light LEDs throughout the night.

Key Technologies

LumiNightKing technology provides advanced, versatile low-light performance. Cameras with this technology combine a large pixel size sensor, an advacned AI-ISP, and ultra-wide F1.0 to capture images in near-total darkness without relying on IR or visible white-light LEDs. LumiNightKing cameras also have white-light LEDs that can be programmed to remain on throghoout the night for deterrence and lighting.

LumiPolarPro and **LumiDesertPro** technology ensures rugged all-weather performance. LumiPolarPro enables dependable performance in extreme cold in temperatures as low as -40 °C (-40 °F). LumiDesertPro allows operation in high temperatures up to 60 °C (140 °F).

Specifications

Camera

Luminys Series	Mainstream
Image Sensor	1/1.8-in. 4MP Progressive CMOS
Maximum Resolution	2688 x 1520
Minimum Illumination	**Color:** 0.0006 lux at F1.0
Number of Illuminators	**White Light:** Four (4)
Illuminator Control	Automatic, Manual
Maximum Illumination Distance	45.7 m (150.0 ft)
Electronic Shutter Speed	Automatic, Manual 1/3 s to 1/100,000 s
Installation Angle	**Pan:** 0° to 360° **Tilt:** 0° to 90° **Rotation:** 0° to 360°
S/N Ratio	> 50 dB

Lens

Iris Type	Fixed
Lens Type	Fixed
Focal Length	2.8 mm
Maximum Aperature	F1.0
Field of View	**Horizontal:** 112° **Vertical:** 60° **Diagonal:** 134°
Close Focus Range	2.0 m (6.6 ft)
DORI Distance	**Detect:** 57.7 m (189.3 ft) **Observe:** 23.0 m (75.5 ft) **Recognize:** 11.4 m (37.4 ft) **Identify:** 5.6 m (18.4 ft)

Video

Compression	Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Sub Stream Only)
Stream Capability	Two (2) Streams
Resolution	4MP (2688 x 1520), 4MP (2560 x 1440), 3MP (2304 x 1296), 1080p (1920 x 1080), 1.3MP (1280 x 960), 720P (1280 x 720), D1 (704 x 480), VGA (640 x 480), CIF (352 x 240)
Maximum Frame Rate	**Main Stream:** 4MP at 30 fps **Sub Stream 1:** D1 at 30 fps
Video Bit Rate	**H.264:** 3 to 6,144 kbps **H.265:** 3 to 6,144 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
Image Angle	0°/90°/180°/270°
Mirror Image	Supported
Privacy Masking	Four (4) Zones

Analytics

Video Content Analytics	Line Crossing, Intrusion
Intelligent Motion Detection	Supported With Alarms for Vehicles and Humans

Audio

Compression	PCM, G.711a, G.711Mu
Interface	**Input:** Built-In Microphone

Alarm

Event	Line Crossing, Intrusion, Motion Detection, iMD, Audio Detection, Video Tampering, Disk Full, Disk Error, Offline, IP Conflict, Voltage Detection, Security Warning

Network

Interface	RJ-45 (10/100 Base-T)
Protocol	IPv4, IPv6, DNS, TCP, UDP, DHCP, HTTP, HTTPS, 802.1X, RTSP, DDNS, P2P, SMTP, RTMP, PPPoE, UPnP, SNMP, Bonjour, QoS, Auto Registration, ICMP, IGMP, FTP, SFTP, RTP, RTCP, ARP, NTP, Multicast, NFS
Interoperability	ONVIF (Profile S/G/T), CGI
Browser	Chrome, Firefox, Edge
Client	LumiViewer, LumiViewer Mobile App
Strorage	FTP, SFTP, NAS, Micro SD Card (Max. 256 GB)

Electrical

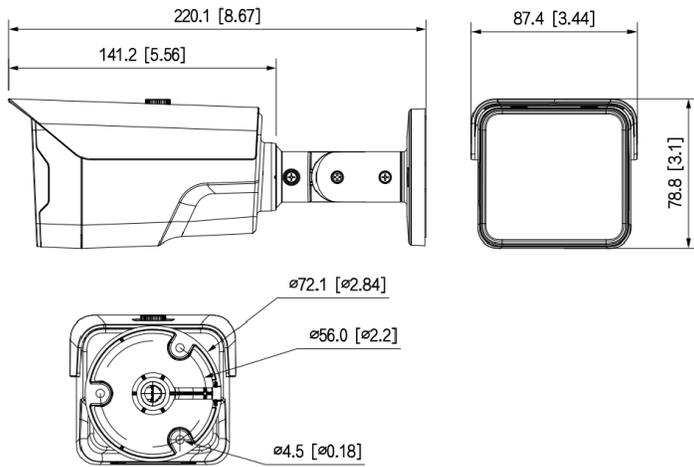|	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	**12 VDC** • **Maximum:** 5.5 W • **Normal:** 2.0 W **PoE** • **Maximum:** 7.2 W • **Normal:** 3.0 W

Construction

Net Weight	0.6 kg (1.3 lb)
Gross Weight	0.8 kg (1.8 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 (L x W x H)	220.1 mm x 87.4 mm x 78.8 mm (8.7 in. x 3.4 in. x 3.1 in.)
Material	Metal

Certifications and Compliance

Certifications	FCC, IC
Compliance	NDAA

Dimensional Drawing

mm [in.]

220.1 [8.67]
141.2 [5.56]
87.4 [3.44]
78.8 [3.1]

⌀72.1 [⌀2.84]
⌀56.0 [⌀2.2]
⌀4.5 [⌀0.18]

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 Luminys 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*	N5B-J01 *(Must be Purchased Separately)*	Junction Box for Select Standard Size Bullet Camera Models
	N5B-A01 *(Must be Purchased Separately)*	G3/4 in. Water Joint for Standard Size Bullet Junction Boxes
Vertical Pole Mount*	N5B-J01 *(Must be Purchased Separately)*	Junction Box for Select Standard Size Bullet Camera Models
	N5B-A01 *(Must be Purchased Separately)*	G3/4 in. Water Joint for Standard Size Bullet Junction Boxes
	N3/N5-P01 *(Must be Purchased Separately)*	Pole Mount Bracket for Select Standard Size Bullet, Dome, and Turret Cameras
Corner Mount*	N5B-J01 *(Must be Purchased Separately)*	Junction Box for Select Standard Size Bullet Camera Models
	N5B-A01 *(Must be Purchased Separately)*	G3/4 in. Water Joint for Standard Size Bullet Junction Boxes
	C01 *(Must be Purchased Separately)*	Corner Mount Bracket for N3/N5/N9/P4/P5 Series 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.