

Description

The BN9029AVAIRAI/NDAA is an 8MP (4K) outdoor dome IP camera with a motorized varifocal lens and advanced iPac AI analytics. It supports PoE power, infrared night vision, and intelligent detection for people and vehicles. Fully NDAA compliant, it is designed for professional, high-security video surveillance applications.

Camera

Image sensor	1/2.8"
Scanning system	Progressive CMOS
Min. Illumination	Color 0.002Lux @ F1.2 (AGC ON); B/W 0 lux @ IR ON
WDR	120 db
Shutter time	1/5 ~ 1/20000s
Day/Night Mode	Full Color Mode/Day&Night Mode/Smart Illumination
DORI Distance	2.7 mm: D: 52.8 m, O: 21.1 m, R: 10.6 m, I: 5.3 m / 13.5 mm: D: 259.3 m, O: 103.7 m, R: 51.9 m, I: 25.9 m
Digital noise reduction	3D DNR

Illuminator

IR LED	10
Warm light	N/A
Red blue light	N/A
IR Viewable length	Up to 28 m (90 ft)
Warm light viewable length	N/A
Type of complementary light	N/A

Lens

Focal length	2.7 - 13.5 mm
Max. Aperture ratio	F1.2
Angular field of view	Horizontal: 33~111°, Vertical: 18~57°, Diagonal: 37~134°
Min. Object distance	Approx. 0.2 m (0.98 ft)
Lens type	Motorized Varifocal
Zoom	5x

Video

Effective pixels	8MP 3840 (H) × 2160 (V)@30fps
Resolution	Main Stream: 8MP (3840x2160) 5MP (2592x1944) 4MP (2592x1520) 3MP (2304x1296) 1080P(1920x1080) 720P(1280x720) 960H(1280x960) Sub Stream: 720P(1280x720) VGA (640x480), QVGA (320x240) Mobile Stream: VGA (640x480), QVGA (320x240)
Video compression format	H.265/H.264/H.265+/H.264+/MJPEG
Video BitRate	256Kbps ~ 16Mbps
Bitrate control method	CBR / VBR



Face detection



Face recognition



License plate detection



License plate recognition



Pedestrian & vehicle



Perimeter intrusion



Line crossing



Cross counting



Heat map



Crowd density



Queue length



Rare sound



Object detection



Sound detection



Intrusion



Region entrance



Region exiting



Video tampering

Image

Privacy masking	Up to 4 Areas
Image setting	Brightness / Contrast / Saturation / Sharpness
Image enhancement	BLC, HLC, WDR, 3D DNR, AWB
Image rotation	0° / 90° / 180° / 270° (Flip / Mirror)
Motion detection	Off/On (8 Level)
White balance	Auto/Manual

Audio

Built-in microphone	N/A
Built-in speaker	N/A
Audio compression	G711A/G711U
Custom voice	YES

Interface

Alarm I/O	1 input, 1 output
Audio I/O	1 input, 1 output
Hardware reset	YES

Network

Ethernet	RJ45(10/100BASE-T)
Protocol	IPv4/IPv6,TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP, SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Security	IP address filter;complicated password;Authenticated username and password
Web viewer	IE10/11 Safari V12.1 above Firefox V.52 above Google chrome V.57 above Edge V.79 above

General

Operating conditions	-40 ~ +140°F / less than ≤ 95% RH
Protection	IP67
Input Voltage / Current	DC12V/PoE(IEEE802.3af)
Power consumption	DC12V: max 6,9W; POE (48V): max 8,7W
Material	Metal
Weight	2.35lbs (≈ 1 kg)
Dimensions	5.78" x 4.6" (≈ 147 mm x 117 mm)
Compatibility	ONVIF (Profile S/G/T/M)
On-Board storage	Micro SD slot, up to 1 TB

Key Features

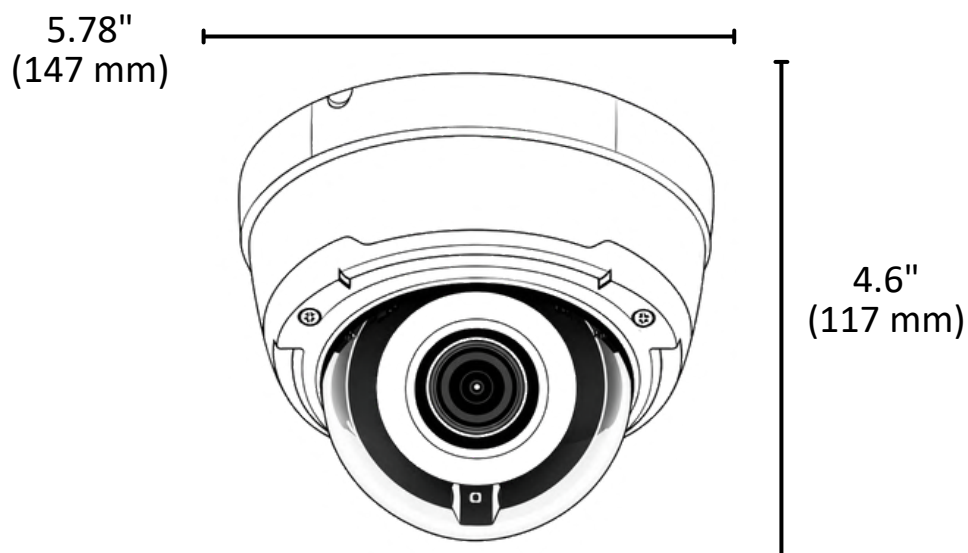
- 8MP (4K) Ultra HD Resolution.
- NDAA Compliant.
- H.265+ Compression.
- 2.7 – 13.5 mm Motorized Varifocal Lens.
- IR Up to 90 Feet (28 m).
- IP67 Rated Weatherproof Housing.
- ONVIF Compliant.
- P2P Support.
- Built-in POE.
- Micro SD Slot – EDGE Recording.

Software

VMS	Bolide VMS
APP	Bolide Quick Connect (iOS / Android)

Analytics

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| AI | <ul style="list-style-type: none">• Face Detection• Face Recognition• License Plate Detection• License Plate Recognition• Pedestrian & Vehicle• Perimeter Intrusion• Line Crossing• Cross Counting• Heat Map• Crowd Density• Queue Length• Rare Sound• Object Detection• Sound Detection• Intrusion• Region Entrance• Region Exiting• Video Tampering |
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Dimensions**Accessories****BP8029JB****BP8029AVAIRJB****BE-JBPOE/DD**