

The BN8108R/NDAA is a 5MP multi-sensor IP camera featuring four independently adjustable 5MP motorized varifocal lenses—each with its own field of view and video analytics. It delivers 360-degree surveillance for large areas with built-in warmlights for full-color night vision and red/blue active deterrent lights. Advanced AI includes face recognition, license plate recognition, human and vehicle detection, perimeter intrusion, and more. Rugged and easy to install with a single Ethernet connection, the BN8108R/NDAA is built for demanding environments.



Key Features

- **Quad-Lens 360° Coverage:** Four precision-engineered varifocal lenses provide complete panoramic monitoring, adjustable on-the-fly for scene-specific framing.
- **True 20 MP Imaging:** Each channel outputs up to 5 MP (2880 × 1620) resolution with advanced starlight sensors to capture vivid, low-light detail and 120 dB wide dynamic range for balanced highlights and shadows.
- **Integrated Edge Analytics & Recording:** Embedded smart functions—face recognition, license-plate reading, people and vehicle detection, crowd density, heat maps, and more—run simultaneously on all four channels, with up to 256 GB onboard storage for continuous recording.
- **Single-Cable Simplicity:** One IP address, one RJ45 PoE/Hi-PoE connection, and one convenient cable deliver power, data, video streams, and control—slashing installation time and reducing infrastructure costs.
- **Dual-Source Illumination:** Built-in IR and warm-white LEDs automatically adapt to changing light conditions, ensuring clear imagery up to 30 m in darkness or through backlit scenes.
- **Extreme Durability:** Engineered to IP67 and IK10 standards, the die-cast alloy housing resists water, dust, and vandalism for reliable 24/7 outdoor operation across -30 °C to +55 °C.
- **Flexible Viewing & Compression:** Supports H.265+/H.265/H.264+/H.264/MJPEG across main, sub, and mobile streams—up to 92 simultaneous feeds—plus region-of-interest encoding to optimize bandwidth use.
- **Universal Integration:** Fully ONVIF-compliant (Profiles S/G/T) with APIs for seamless integration into any VMS or NVR ecosystem, plus web access via all major browsers.



INCLUDED
WALL MOUNT BRACKET

Camera

Image Sensor	1/2.7" Progressive Scan CMOS (EA)
Max. Resolution	2880 x 1620 (EA)
Min. Illumination	Color: 0.006 Lux @ (F1.2, AGC ON), B/W: 0.002 Lux @ (F1.2, AGC ON); 0 Lux with IR on/White light on
Shutter Time	1/5s - 1/20,000 s
Day & Night	IR Cut Filter
Angle Adjustment	Four flexible lens in one track, slide range: -60° to 60°, tilt: 0° to 90°, rotate: 0° to 355°
Lens	2.8 ~ 12 mm, Varifocal motorized lens
Focal Length & FOV	Horizontal field of view: 35.3° to 112.2°, Vertical field of view: 19.9° to 58.2°, Diagonal field of view: 40.5° to 137.2°
Lens Mount	Ø16.7
Aperture	Max. F1.30

Illuminator

Supplement Light Type	IR and Warm light
Supplement Light Range	Up to 30 m(IR)/ 15m(Warm light)
IR Wavelength	850 nm
Smart Supplement Light	Yes

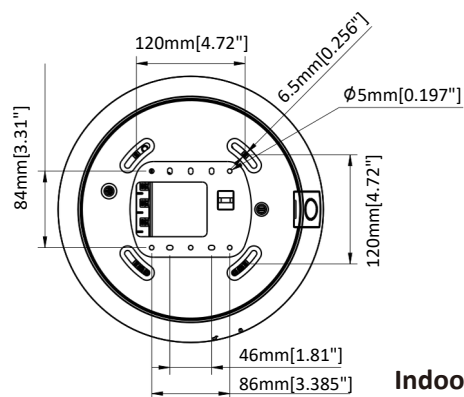
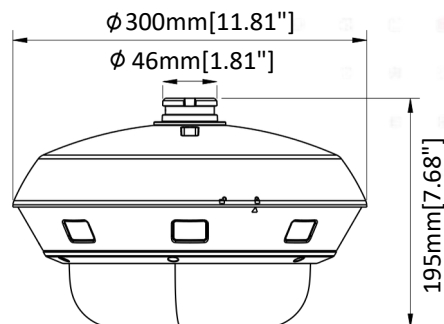
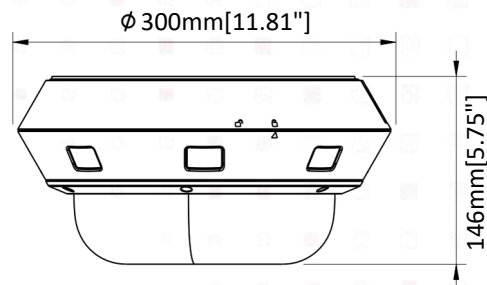
Video

Main Stream	50/60 Hz: 25/30fps 5MP(2880x1620), 4MP(2592x1520), 3MP(2304x1296), 1080P(1920x1080), 720P(1280x720)
Sub-Stream	50/60 Hz: 25/30fps 720P(1280x720), VGA(640x480)
Mobile Stream	50/60 Hz: 25/30fps VGA(640x480)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub stream: H.265+/H.265/H.264+/H.264/MJPEG, Mobile stream: H.265+/H.265/H.264+/H.264
Video Bit Rate	8Kbps to 8Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
Region Of Interest (ROI)	Yes

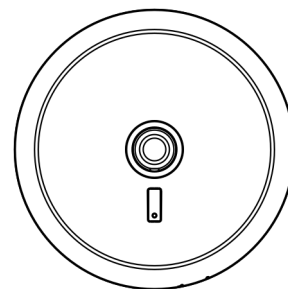
Audio

Audio Compression	G.711
Audio Bit Rate	Auto
Audio Sampling Rate	8kHz
Environment Noise	Yes
Filtering	

Dimensions



Indoor



Outdoor

Network

Protocols	TCP/IP,HTTP,DHCP,DNS,DDNS,RTSP,SMTP,NTP,UPnP,SNMP,HTTPS,FTP,PPPoE
Simultaneous Live View	Up to 92 streams
API	ONVIF(Profile S/G/T)
User/Host	Up to 32 users, 2 levels: Administrator and User
Web Browser	IE10/11 Safari V12.1 above Firefox V.52 above Google chrome V.57 above Edge V.79 above

Image

Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, and white balance are adjustable by client so ware or web browser
Day/Night Switch	Day/Night/Image/Schedule
Wide Dynamic Range	120 dB
Image Enhancement	BLC, 3D DNR, HLC

Interface

Image Enhancement	1 RJ45 10M/100M/1000M Ethernet port
On-Board Storage	Built-in Micro SD/SDHC/SDXC slot, up to 256GB
Audio	1 input (RCA), 1 output (RCA)
Alarm	2 inputs, 2 outputs
Reset	Yes

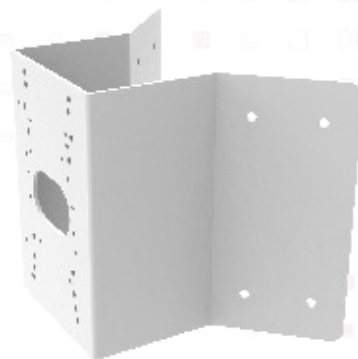
Event

Basic Event	Motion detection
Smart Event	Face Recognition, Pedestrian & Vehicle Detection, Line Crossing, Object Detection, Cross Counting, Heat Map, Crowd Density, Queue Length, License Plate Recognition, Intrusion, Region Entrance, Region Exiting

General

Power	Max. 39W
Input Voltage / Current	ACV24/ DCV12 / Hi-PoE
Material	Alloy
Dimension	ø 300 mm × 195 mm (11.8" x 7.7")
Package Dimension	500 mm × 395 mm × 385 mm (19.7" x 15.6" x 15.2")
Weight	Camera: Approx. 4.6kg (10.1lb)
Operating Conditions	-30~+55°C/less than ≤ 95% RH
Protection	IP67, IK10

Accessories (Optional)



BP-BN9108R/CR



BP-BN9108R/PMB



BP-BN9108R/POL