

# SN-IPR8540DQAW-PZ

4MP Nighthawk Full Color Varifocal Bullet Network Camera



## Key Features

- 1/1.8" STARVIS™ CMOS
- Max. 4MP(2688×1520) @25/30fps resolution
- Supports face, human, and vehicle detection & capture.
- Supports human and vehicle attribute detection.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Built-in warm lights, illumination distance up to 40 m / 60 m
- 1/1 alarm in/out, 1/1 audio in/out, built-in mic and speaker
- Built-in microSD card slot (up to 1 TB)
- Supports 12 VDC / 0.25 A power output
- IP66 protection

## Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max Resolution	4MP, 2688(H) × 1520(V)
Shutter Speed	1/5 to 1/50,000s
Min Illumination	Color: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with illuminator on
Day & Night	Fixed filter
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotation: 0° to 360°
Lens	
Lens Type	Varifocal lens, Motorized focal
Focal Length	4.5 to 8 mm, and 8 to 32 mm optional
Max. Aperture	F1.0
Field of View (FOV)	4.5 to 8 mm, - H: 101° to 57.5°, V: 52.7° to 32° 8 to 32 mm, - H: 39.7° to 16°, V: 22.6° to 9.2°
Iris	Auto Iris
Illuminator	
Type	Warm light
Distance	4.5 to 8 mm, - Up to 40 m (131.2 ft) 8 to 32 mm, - Up to 60 m (196.9 ft)
Control	Auto/Manual
Intelligent Analytics	
AI Multi-Target	- Supports face, human, and vehicle detection & capture - Supports human and vehicle attribute detection - Supports multiple frame modes: Full Frame, Four-Corner Frame, Mosaic
Attribute Extraction	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest Vehicle Attributes: Type, color, brand, orientation
Intelligent Analysis	Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, and fight detection. - Supports accurate target classification (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams

Resolution	Stream1: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA
Frame Rate	Up to 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 areas, Rectangle)
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
<b>Image</b>	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Scene Mode	Indoor, Outdoor, Mirror, Corridor mode
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day, Night, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	4 areas
<b>Event</b>	
Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, Alarm output, FTP upload, SMTP upload, Snapshot, Audible alarm output
<b>Network</b>	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
<b>Security</b>	
OS / Firmware Protect	Encrypted firmware, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)

Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access / System / Event Log management
Secure Storage	SDcard partition encrypt (AES-256), Secure element
Supply Chain Security	SBOM

### Interface

Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Built-in Microphone	Supported
Built-in Speaker	Supported
Audio Interface	1ch Input, 1ch Output
Alarm Interface	1ch Input, 1ch Output
SD Card Slot	Built-in microSD card slot, up to 1 TB
Reset Button	Supported
Power Output	12 VDC @ 0.25 A (Supported)

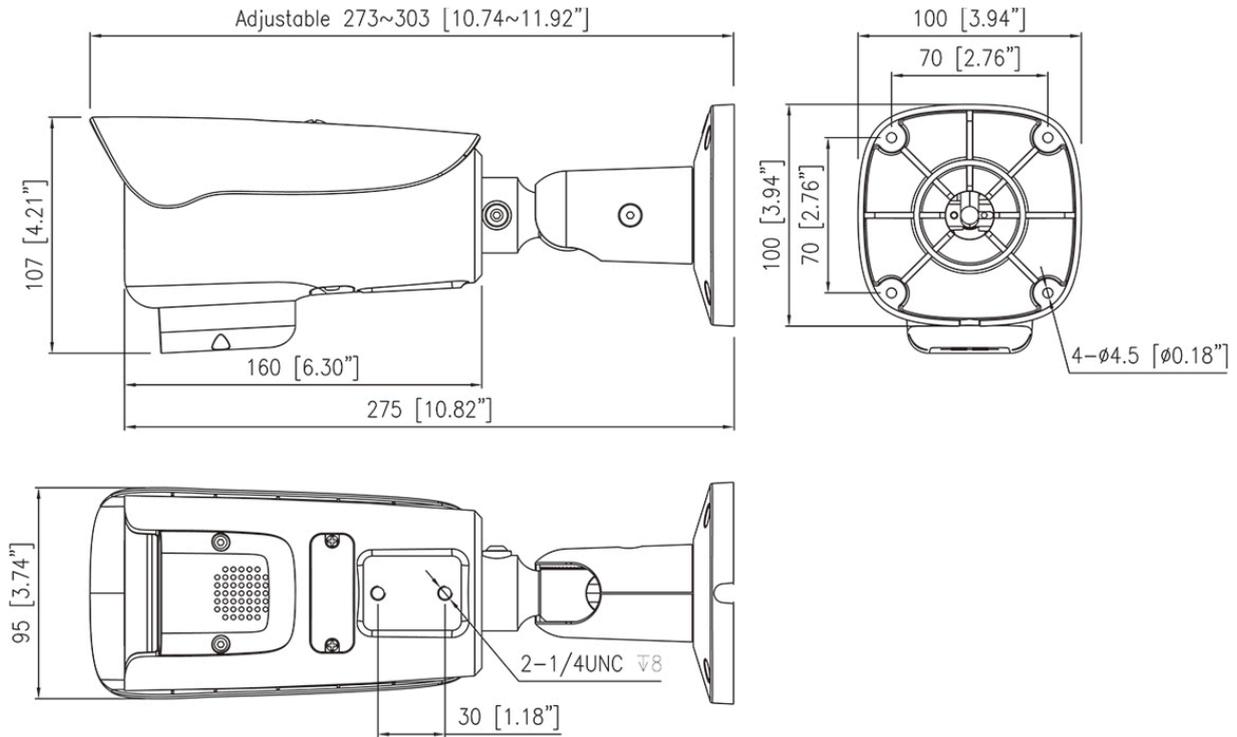
### General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-15% to +25%) / PoE (802.3af)
Power Consumption	Typical: 3.5 W (12 VDC) / approx. 4.7 W (PoE) Max (Light on + Focus + Speaker): 9 W (12VDC) / approx. 11.3 W (PoE)
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP66
Certifications	CE-EMC - EN 55032, EN 55035, EN 50130-4, EN IEC 61000-3-2, EN 61000-3-3 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy + plastic
Dimensions	303 × 100 × 107 mm (11.9 × 3.94 × 4.21 inch)
Net Weight	Approx. 1.32 kg (2.91 lb)

### DORI Distance (EN62676-4 standard)

Detect	4.5 to 8 mm: 69 to 113 m (226.4 to 370.7 ft) 8 to 32 mm: 159 to 370 m (521.7 to 1,213.9ft)
Observe	4.5 to 8 mm: 27.6 to 45.2 m (90.6 to 148.3 ft) 8 to 32 mm: 63.6 to 148 m (208.7 to 485.6ft)
Recognize	4.5 to 8 mm: 13.8 to 22.6 m (45.3 to 74.1 ft) 8 to 32 mm: 31.8 to 74 m (104.3 to 242.8 ft)
Identify	4.5 to 8 mm: 6.9 to 11.3 m (22.6 to 37.1 ft) 8 to 32 mm: 15.9 to 37 m (52.2 to 121.4 ft)

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK645G  
Junction Box



SN-CBK627D  
Pole Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount