SN-IPR8540DQAW-B

4MP Nighthawk Full Color Fixed Focal 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 40m

- 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	Fixed focal
Focal Length	2.8 mm, 4 mm, 6 mm optional
Max. Aperture	F1.0
Field of View (FOV)	2.8 mm, - H: 112.2°, V: 60.7° 4 mm, - H: 95.6°, V: 50.6° 6 mm, - H: 54.4°, V: 28.7°
Iris	Fixed Iris

Illuminator	
Type	Warm light
Distance	Up to 40 m (131.2 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)

Image

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

Event

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

Network

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

Security

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

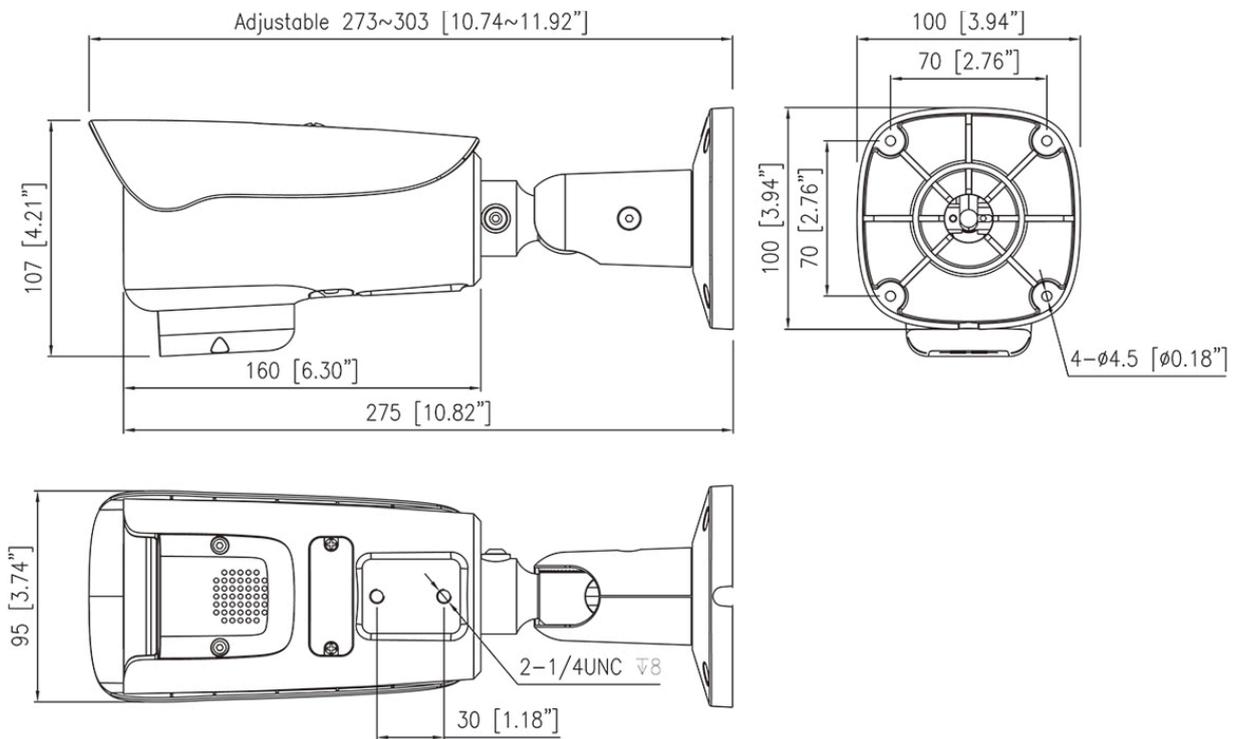## General

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 + Speaker): 8.5 W (12 VDC) / approx. 10.7 W (PoE)
Operating Temperature	-40℃ to 60℃ (-40℉ to 140℉)
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. 1.25 kg (2.76 lb)

DORI Distance (EN62676-4 standard)

Detect	2.8 mm: 56 m (183.7 ft) 4 mm: 65 m (213.3 ft) 6 mm: 110 m (360.9 ft)
Observe	2.8 mm: 22.4 m (73.5 ft) 4 mm: 26 m (85.3 ft) 6 mm: 44 m (144.4 ft)
Recognize	2.8 mm: 11.2 m (36.7 ft) 4 mm: 13 m (42.7 ft) 6 mm: 22 m (72.2 ft)

Identify	2.8 mm: 5.6 m (18.4 ft) 4 mm: 6.5 m (21.3 ft) 6 mm: 11 m (36.1 ft)

Dimensions (mm)

Adjustable 273~303 [10.74~11.92"]
107 [4.21"]
160 [6.30"]
275 [10.82"]
100 [3.94"]
70 [2.76"]
100 [3.94"]
70 [2.76"]
4-Ø4.5 [Ø0.18"]
95 [3.74"]
2-1/4UNC ⍉8
30 [1.18"]

Accessories

Optional:

SN-CBK645G Junction Box	SN-CBK627D Pole Mount	SN-CBK101 Pole Mount	SN-CBK102 Corner Mount