SUNELL

NDAA COMPLIANT   TAA COMPLIANT

SN-IPV8084HCAS-B

8MP Smart Dual Illumination Turret Network Camera

Key Features

- 1/1.8" STARVIS™ CMOS

- Max. 8MP(3840×2160) @25/30fps resolution

- 2.8 mm / 4 mm fixed lens optional

- 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 IR and warm light, IR distance up to 30 m, warm light distance up to 20 m

- Built-in microphone, 1/1 audio input/output, 1/1 alarm input/output

- Built-in microSD card slot (up to 1 TB)

- IP67-rated housing

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max Resolution	8MP, 3840(H) × 2160(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with illuminator on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0˚ to 355˚, Tilt: 0˚ to 80˚, Rotation: 0˚ to 360˚

Lens	
Lens Type	Fixed lens, Fixed focal
Focal Length	2.8 mm, 4 mm optional
Max. Aperture	F1.6
Field of View (FOV)	2.8 mm: - H: 110.5° , V: 56.5° 4 mm: - H: 88.4° , V: 50°
Iris	Fixed Iris

Illuminator	
Type	IR, Warm light (Smart Dual-light)
IR wavelength	850 nm
Distance	IR distance up to 30 m (98.4 ft) Warm light distance up to 20 m (65.6 ft)
Control	IR mode, White mode, Intelligent mode, None

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 detection, 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 - Supports accurate target classification (human/vehicle)
People Counting	Supported

Video & Audio	
Number of Streams	3 Streams

Resolution	Stream1: 3840×2160, 2592×1944, 2592×1520, 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 16 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 Zone, 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, White light 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, Secure boot, 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
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

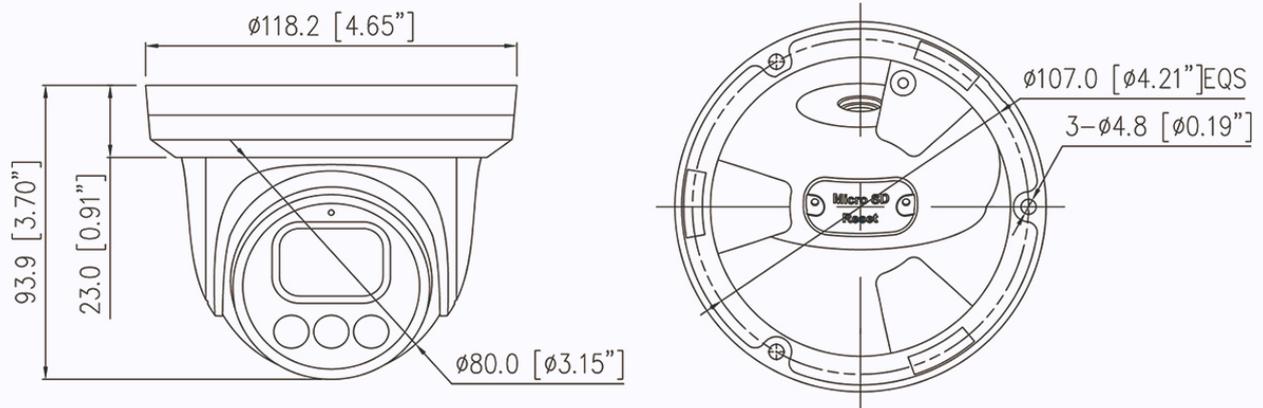|	
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-10% to +25%) / PoE (802.3af)
Power Consumption	Typical: 3.3 W (12 VDC) / approx. 4.2 W (PoE) Max (IR on): 7 W (12 VDC) / approx. 8.8 W (PoE)
Operating Temperature	-40℃ to 60℃ (-40℉ to 140℉)
Operating Humidity	Less than 95% RH
Ingress Protection	IP67 (housing)
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy body, Decoration ring: plastic
Dimensions	φ118.2 × 93.9 mm (4.65 × 3.7 inch)
Net Weight	Approx. 0.55 kg (1.21 lb)

DORI Distance (EN62676-4 standard)

Detect	2.8 m: 89.7 m (294.3 ft) 4 mm: 100 m (328.1 ft)
Observe	2.8 m: 35.9 m (117.8 ft) 4 mm: 40 m (131.2 ft)
Recognize	2.8 m: 17.9 m (58.7 ft) 4 mm: 20 m (65.6 ft)
Identify	2.8 m: 9 m (29.5 ft) 4 mm: 10 m (32.8 ft)

Dimensions (mm)

Ø118.2 [4.65"]
93.9 [3.70"]
23.0 [0.91"]
Ø80.0 [Ø3.15"]
Ø107.0 [Ø4.21"]EQS
3-Ø4.8 [Ø0.19"]

Accessories

Optional:

SN-CBK646M Junction Box	SN-BK382A Wall Mount	SN-CBK203 Pendant Cap	SN-CBK402 Ceiling Mount
SN-CBK501 Wall Mount	SN-CBK502 Wall Mount	SN-CBK101 Pole Mount	SN-CBK102 Corner Mount