

SN-IPP8085QAS-B

8MP 180° Panoramic Bullet Network Camera



Key Features

- 2×5MP 1/2.8" STARVIS™ CMOS
- Output 180° wide angle splicing image
- Outputs max. 8MP (4608×1728)@15 fps, and supports 2592×1944 @15fps
- Supports face, human, and vehicle detection with snapshot capture
- Supports human and vehicle attribute analysis
- 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, heat map, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Built-in IR and warm light illumination up to 30 m
- Built-in microphone and speaker for two-way audio
- 1/1 audio I/O and 1/1 alarm I/O
- Built-in microSD card slot supporting up to 1 TB
- IP66-rated protection

Specifications

Camera	
Image Sensor	Dual 1/2.8" Progressive Scan CMOS
Max Resolution	8MP, 4608(H) × 1728(V)
Shutter Speed	1/5 to 1/100,000s
Min Illumination	Color: 0.01 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 360°, Tilt: 0° to 90°, Rotation: 0° to 360°
Lens	
Lens Type	Fixed-focal lens, Dual lens
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 180°, V: 63°
Iris	Fixed Iris
Illuminator	
Type	IR, Warm 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 Detection	- Supports face, human, and vehicle detection with snapshot capture - Supports human and vehicle attribute analysis - Supports tracking display modes: Full Frame, Four-Corner Frame, and Mosaic
Attribute Analysis	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 alarm triggering based on specified target types (human/vehicle)
People Counting	Supported
Heat Map	Supported
Video & Audio	
Number of Streams	2 Streams

Resolution	Stream1: - Splicing mode: 4608×1728, 3072×1152 - Multi-channel mode: 2592×1944, 2592×1520, 1920×1080, 1280×720 Stream2: - Splicing mode: 1536×576, 960×360 - Multi-channel mode: D1, VGA, CIF, QVGA
Frame Rate	Up to 15fps
Bit Rate Control	CBR/VBR
Bit Rate	Splicing mode: - Stream1: 500 Kbps to 16 Mbps - Stream2: 100 Kbps to 8 Mbps Multi-channel mode: - Stream1: 200 Kbps to 12 Mbps - Stream2: 100 Kbps to 6 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	8 areas
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
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day mode, Night mode, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	WDR, HLC, BLC, Defog
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, Email notification, Snapshot, Audible alarm output, White light alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SNMP, 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, Brute-force attack protection
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, and event logs
Secure Storage	AES-256 encrypted SD card storage
Supply Chain Security	SBOM

Interface

Network Interface	1 × RJ45 10/100 Mbps Ethernet port
Built-in Microphone	Supported
Built-in Speaker	Supported - Max sound transmission distance of 60m (196.85ft) (45 to 48 dB)
Audio Interface	1 input (3.5 mm), 1 output (3.5 mm)
Alarm Interface	1 input, 1 output
SD Card Slot	Built-in microSD card slot (up to 1 TB)
Reset Button	Supported

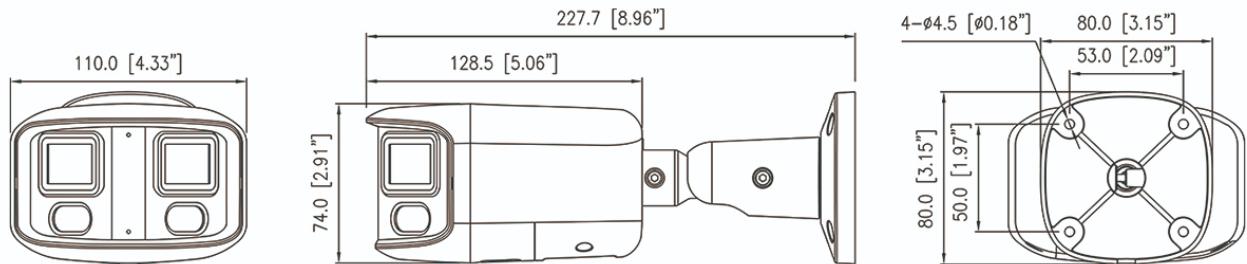
General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-15% to +20%) / PoE (802.3af)
Power Consumption	Max 11.5W
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	< 95% RH, non-condensing
Ingress Protection	IP66
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy housing
Dimensions	227.7 × 110 × 80 mm (8.96 × 4.33 × 3.15 inch)
Net Weight	Approx. 0.82 kg (1.81 lb)

DORI Distance (EN 62676-4 standard)

Detect	44 m (144.3 ft)
Observe	17.6 m (57.7 ft)
Recognize	8.8 m (28.9 ft)
Identify	4.4 m (14.4 ft)

Dimensions (mm)

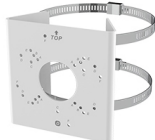


Accessories

Optional:



SN-CBK656A
Junction Box



SN-CBK627D
Pole Mount