

SN-IPV8088ECAR-B

12MP Fisheye Network Camera



Key Features

- 1/1.7" 12MP STARVIS™ CMOS, up to 12MP (4000 × 3000) @ 25 fps
- Multi Dewarping modes and front end image correction
- 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, running detection, fall detection, fight detection, heat map, and people counting.
- DWDR, 3D DNR, ROI, Defog, HLC
- Smart IR illumination up to 15 m
- Built-in microphone with 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	1/1.7" Progressive Scan CMOS
Max Resolution	12MP, 4000(H) × 3000(V)
Shutter Speed	1/5 to 1/50,000s
Min Illumination	Color: 0.01 Lux @ (F2.4, AGC ON), B/W: 0.005 Lux @ (F2.4, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
Lens	
Lens Type	Fixed-focal lens
Focal Length	1.8 mm
Max. Aperture	F2.4
Field of View (FOV)	180° × 180°
Iris	Fixed Iris
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 15 m (49.2 ft)
Control	Auto/ Manual
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, 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: One-Channel: - Fisheye View: 4000×3000, 3000×3000, 2560×2560, 1280×960 - 180° Panorama View: 3000×752, 2560×640, 1920×480, 1280×960 - 360° Panorama View: 4000×2000, 2560×1280, 1920×960, 1280×960 - 4PTZ View: 4000×3000, 2048×1536, 1920×1440, 1280×960 - Fisheye + 3PTZ View: 4000×3000, 2048×1536, 1920×1440, 1280×960 Multi-Channel: 1520×1520, 1280×960, 960×960, 720×720, 640×640 Stream2: One-Channel: - Fisheye View: D1, 640×640, 480×480 - 180° Panorama View: 832×208, D1 - 360° Panorama View: 640×640, D1 - 4PTZ View: D1, VGA, QVGA - Fisheye + 3PTZ View: D1, VGA, QVGA Multi-Channel: 640×640, D1
Frame Rate	Up to 25fps
Bit Rate Control	CBR/VBR
Bit Rate	One-Channel: - Stream1: 200 Kbps to 16 Mbps - Stream2: 100 Kbps to 6 Mbps Multi-Channel: - Stream1: 100 Kbps to 12 Mbps - Stream2: 100 Kbps to 6 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Support (Single-channel and fisheye mode)
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
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	DWDR
Privacy Masking	Supported (Single-channel and fisheye mode)
Fisheye Display	
Mount Type	Ceiling Mount, Wall Mount, Desktop Mount
Decoding Mode	On-board Dewarping/Client-side Dewarping

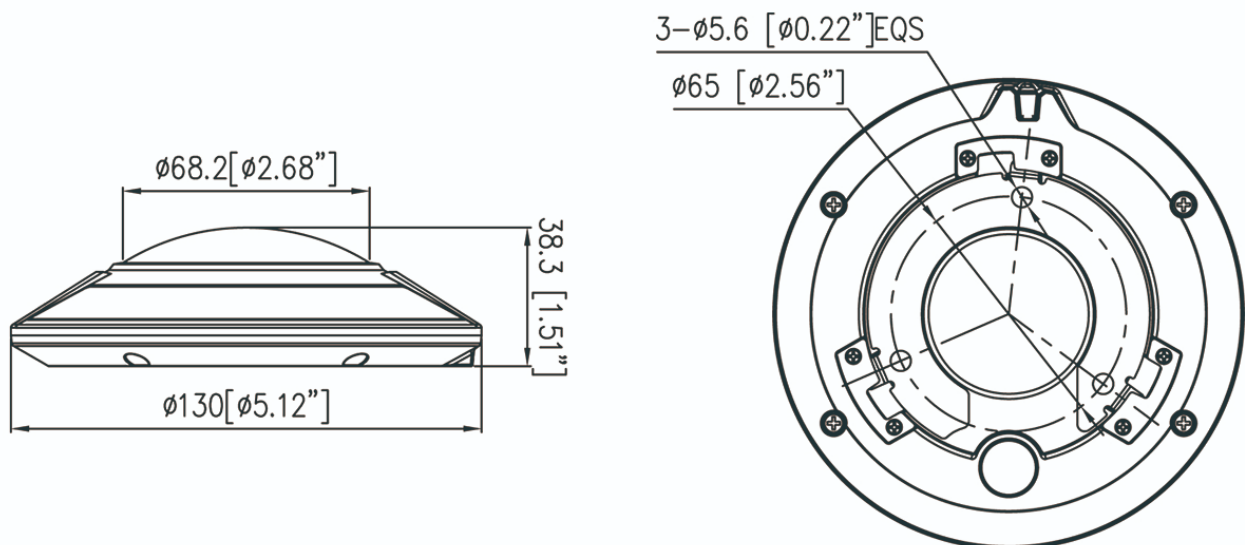
Display Mode	12 display modes in total Client-side Dewarping: - 180° panorama view, 360° panorama view, 360° panorama + PTZ, 360° panorama + 3PTZ, 360° panorama + 6PTZ, 360° panorama + 8PTZ, Fisheye view, Fisheye + 3PTZ, Fisheye + 8PTZ, 4PTZ, 2PTZ, Fisheye + 1PTZ + 360° On-board Dewarping: - Fisheye view, Double panorama view, 4PTZ, Single panorama view, Fisheye + 3PTZ
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
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTP/RTCP, 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, and Media user
Web Viewer	Chrome, Firefox, Microsoft Edge, IE11 or earlier
Security	
OS / Firmware Protect	Encrypted firmware, Secure boot, 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
Audio Interface	1 input (RCA), 1 output (RCA)
Alarm Interface	1 input, 1 output
SD Card Slot	Built-in microSD card slot (up to 1 TB) * Memory card pre-installation available upon customer request.
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 9 W
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; PC components
Dimensions	Φ130.1 × 38.3 mm (Φ5.12 × 1.51 inch)
Net Weight	Approx. 435 g (0.96 lb)

DORI Distance (EN 62676-4 standard)

Detect	34.5 m (113.2 ft)
Observe	13.8 m (45.3 ft)
Recognize	6.9 m (22.6 ft)
Identify	3.45 m (11.3 ft)

Dimensions (mm)



Accessories

Optional:



SN-CBK645E
Junction Box



SN-CBK201A
Pendant Cap



SN-CBK402
Ceiling Mount



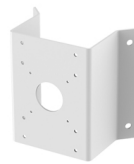
SN-CBK501
Wall Mount



SN-CBK502
Wall Mount



SN-CBK101
Pole Mount



SN-CBK102
Corner Mount