

SN-CHP8650EBR(-K)-Z3...

5MP 30x IR Explosion-proof Network Camera



Key Features

- 1/2.8" STARVIS™ CMOS
- Max. 5MP (2592×1944)@25/30 fps resolution, 30x optical zoom, 16x digital zoom
- 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, smoke and flame detection, and people counting.
- True WDR, 3D DNR, ICR, HLC, BLC, Defog
- IR distance up to 200 m
- Fiber optic interface (-K models only)
- Material: 316L Stainless steel, IP68 water resistant
- ATEX: II 2 G Ex db IIC T6 Gb, Ex II 2 D Ex tb IIIC T80°C Db

Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max Resolution	5MP, 2592(H) × 1944(V)
Shutter Speed	1/5 to 1/100,000s
Min Illumination	Color: 0.07 Lux @ (F1.6, AGC ON), B/W: 0.02 Lux @ (F1.6, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
Lens	
Focal Length	5.3 to 159 mm
Max. Aperture	F1.6 to F4.3
Field of View (FOV)	H: 56.3° to 2.7°, V: 42.4° to 2.0°
Optical Zoom	30x
Digital Zoom	16x
Iris	Auto/Manual
Focus Control	Auto/Manual/Semi-automatic
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 200 m (656.2 ft)
Control	Auto / Manual
Intelligent Analytics	
Multi-Object Detection	<ul style="list-style-type: none"> - 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)
Smoke and Flame Detection	Supported
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams

Resolution	Stream1: 2592×1944, 2592×1520, 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)	Supported
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, Iris 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, Anti-shake
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	Support 8 zones, mask color configurable
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/ 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, 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
Fiber Interface	Optional (-K model): - 1 × 10/100 Mbps single-mode, single-fiber port
Audio Interface	1 × input, 1 × output
Alarm Interface	2 × input, 1 × output
RS-485	Supported
CVBS Output	1ch BNC
SD Card Slot	MicroSD card slot (max. 1 TB) *Memory card must be factory pre-installed and is not field-installable.
Reset Button	Supported

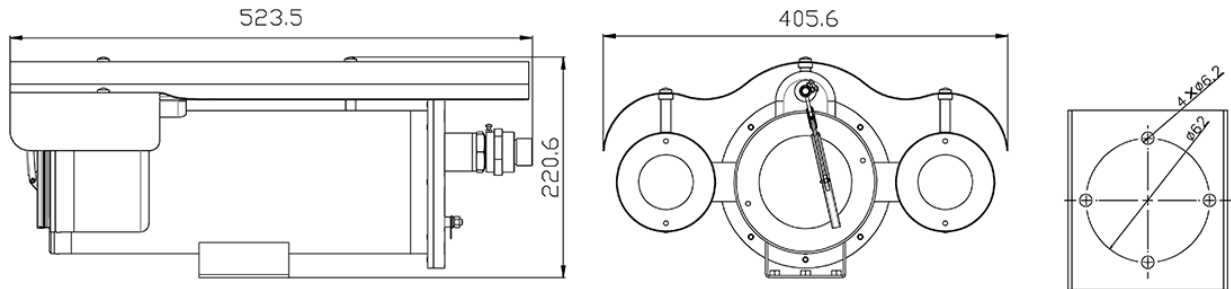
General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	100 to 240VAC
Power Consumption	Less than 36W
Operating Temperature	-40°C to 60°C (-40°F to 140 °F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP68
Wiper	Supported
Certifications	ATEX: Ex II 2GD Ex db IIC T6 Gb /Ex tb IIIC T80°C Db; IECEX: Ex db IIC T6 Gb /Ex tb IIIC T80°C Db
Material	SUS316L
Dimensions	523.5 × 405.6 × 220.6 mm (20.6 × 16 × 8.7 inch)
Net Weight	18 kg (39.68 lb)

DORI Distance (EN62676-4 standard)

Detect	104 to 3,120 m (341.2 to 10,236.2 ft)
Observe	41.6 to 1,248 m (136.5 to 4,094.5 ft)
Recognize	20.8 to 624 m (68.2 to 2,047.2 ft)
Identify	10.4 to 312 m (34.1 to 1,023.6 ft)

Dimensions (mm)



Accessories

Optional:



SN-BK401A-SS
Wall Mount



SN-BK406-SS
Pole Mount



SN-BK407-SS
Corner Mount



SN-BK400-SS(P/F/D)
Junction Box



SN-CPL10A-SS
Washing Tank



Flexible Tube