SN-CHP8650JAN-Z30-S-S

5MP 30x Water Cooling Bullet Network Camera

Key Features

- 1/2.8" STARVIS™ CMOS

- 25/30 fps @ 5MP (2592 × 1944) resolution

- 30x optical zoom,16x digital zoom

- Supports face, human, and vehicle detection & capture.

- Supports human and vehicle attribute detection.

- Intelligent analytics: Intrusion, line-crossing, loitering, wrong-way detection, illegal parking, perimeter protection, smart motion detection, people counting, and human behavior analysis (running, fall, fight).

- True WDR (120dB), 3D DNR, ROI, Defog, HLC

- Rugged 304 stainless steel housing, IP68-rated for water resistance

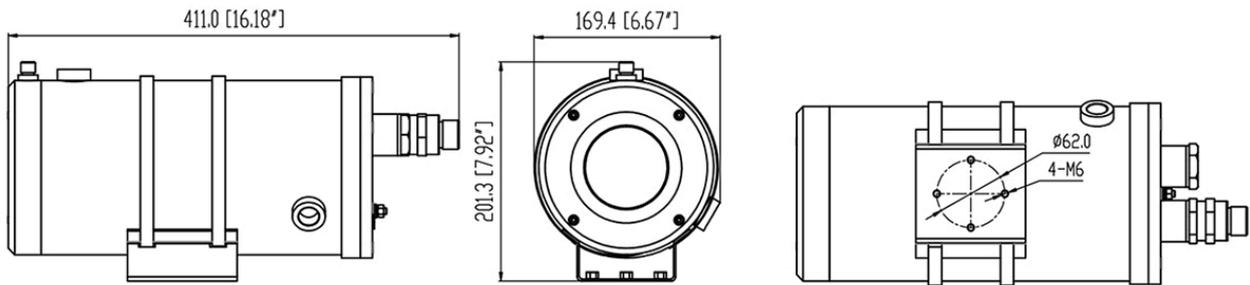- Supports water cooling for efficient thermal control

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)
Day & Night	Auto (ICR)

Lens	
Focal Length	5.3 to 159 mm, 30x Optical Zoom
Max. Aperture	F1.6 to F4.3
Field of View (FOV)	H: 56.3° to 2.7°, V: 42.4° to 2.0°
Digital Zoom	16x
Iris	Auto/Manual
Focus 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, and 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, illegal parking, area people limit, perimeter detection, 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, 1280×720Stream2: D1, VGA, CIFStream3: 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, SMTP upload, FTP upload, Alarm output, 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
Audio Interface	1 input / 1 output

Alarm Interface	2 inputs / 1 output
RS-485	Supported
SD Card Slot	Built-in microSD card slot, up to 1 TB * If needed, we recommend purchasing the memory card with the product so it can be pre-installed during production.
Reset Button	Built-in

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 15 W
Operating Conditions	Water cooling: - Ambient temperature 0℃ to 250℃ (32°F to 482°F), water flow speed 0.3m³/h, internal body temperature of the body ≤ 35℃ (95°F), pressure 0.1 to 0.2MPa - Ambient pressure: 80Kpa to 106Kpa
Operating Humidity	Less than 95% RH
Ingress Protection	IP68
Material	Stainless steel 304
Dimensions	411 × 169 × 188 mm (16.18 × 6.65 × 7.4 inch)
Net Weight	Approx. 9.1 kg (20.06 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)

411.0 [16.18″]   169.4 [6.67″]   201.3 [7.92″]   Ø62.0 4-M6

Accessories

Optional:

SN-BK401A-SS Wall Mount	SN-BK406-SS Pole Mount	SN-BK407-SS Corner Mount
SN-BK400-SS(P/F) Junction Box	Flexible Tube	