

SN-IPR7281KFAS-B

8MP Nighthawk Smart Dual Light Bullet Network Camera



Key Features

- 1/1.8" progressive scan CMOS
- Max. 8MP(3840×2160) @25/30fps resolution
- 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 detection, smart motion detection, people counting, and human behavior analysis (running, fall, fight).
- True WDR (120dB), 3D DNR, ROI, HLC, BLC, Defog.
- Built-in IR LED and warm lights, illumination distance up to 30 m.
- Built-in microphone, 1/1 audio in/out, 1/1 alarm in/out.
- Built-in microSD card slot (up to 1 TB)
- IP66 protection

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: 0.0005 Lux @ (F1.0, 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 lens
Focal Length	2.8 mm
Max. Aperture	F1.0
Field of View (FOV)	H: 109.4°, V: 59.5°
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 30 m (98.4 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.
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)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 2688×1520, 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 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 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
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 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, FTP upload, SMTP upload, Alarm output, 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, 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 user 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
Built-in Speaker	Optional
Audio Interface	1 × Input; 1 × Output
Alarm Interface	1 × Input; 1 × Output
SD Card Slot	Built-in microSD card slot, up to 1 TB
Reset Button	Supported

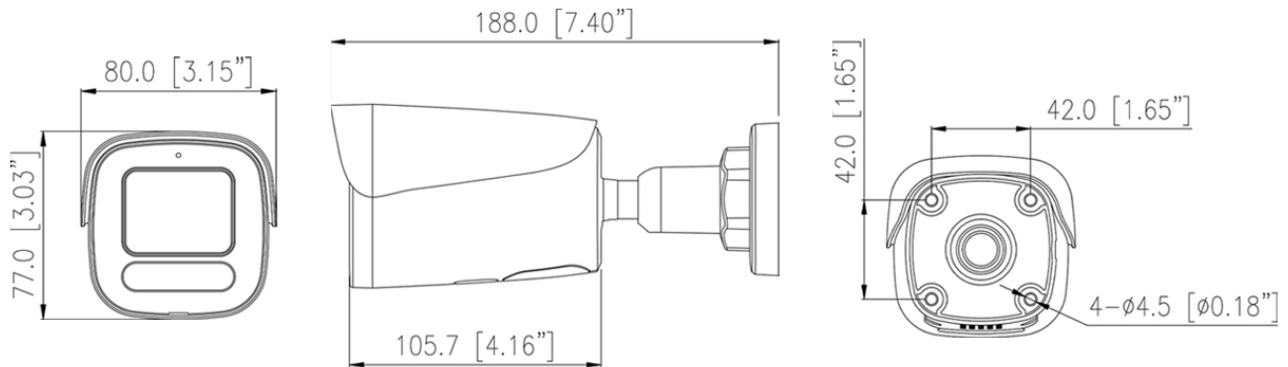
General

Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-15% to +25%) / PoE (802.3af)
Power Consumption	Typical: 3.3 W (12VDC); approx. 4.1 W (PoE) Max (with IR/Warm Light + Speaker + Red/Blue Lights on): 7.1 W (12 VDC); approx. 8.9 W (PoE)
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP66
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
Dimensions	188.0 × 80 × 77 mm (7.40 × 3.15 × 3.03 inch)
Net Weight	Approx. 0.59 kg (1.3 lb)

DORI Distance (EN62676-4 standard)

Detect	80.4 m (263.8 ft)
Observe	32.2 m (105.6 ft)
Recognize	16.1 m (52.8 ft)
Identify	8.0 m (26.3 ft)

Dimensions (mm)



Accessories

Optional:



SN-CBK656A
Junction Box



SN-CBK627D
Pole Mount