

SN-IPR8047AKAN-S-PZ

4MP Starlight Varifocal Bullet Network Camera



Key Features

- 1/1.8" progressive scan CMOS, up to 4MP (2688 × 1520) @ 50/60 fps
- Motorized varifocal lens (4.1–12.8 mm / 8–32 mm / 10–50 mm optional)
- Supports face, human and vehicle detection with snapshot capture.
- Supports human and vehicle attribute analysis.
- Intelligent analytics: Intrusion, smart motion detection, line crossing (single/double), wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR illumination up to 120 m
- Built-in microphone and speaker for two-way audio
- Built-in microSD card slot supporting up to 1 TB
- Audio and alarm I/O interfaces
- IP66, IK10-rated protection

Specifications

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max Resolution	4MP, 2688(H) × 1520(V)
Shutter Speed	1/5 to 1/100,000s
Min Illumination	Color: 0.003 Lux @ (F1.3, AGC ON), B/W: 0.0008 @ (F1.3, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
S/N Ratio	55 dB
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotation: 0° to 360°
Lens	
Lens Type	Motorized varifocal lens
Focal Length	4.1–12.8 mm / 8–32 mm / 10–50 mm (optional)
Max. Aperture	F1.5–F2.5 (4.1–12.8 mm), F1.6 (8–32 mm), F1.3–F1.4 (10–50 mm)
Field of View (FOV)	4.1–12.8 mm: H: 91.4°–35.5°, V: 50.5°–20° 8–32 mm: H: 41.1°–14°, V: 23°–7.9° 10–50 mm: H: 42.5°–11.1°, V: 24.3°–6.3°
Iris	Auto Iris
Focus Control	Motorized focus
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	4.1–12.8 mm: up to 70 m (229.7 ft) 8–32 mm: up to 80 m (262.5 ft) 10–50 mm: up to 120 m (393.7 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 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 alarm triggering based on specified target types (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 50/60 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream 1: 100 Kbps to 16 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Up to 8 zones
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, Corridor mode
Exposure Mode	Auto, Manual, Shutter priority, Iris 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, Anti-shake
Wide Dynamic Range	True WDR (120 dB)
Privacy Masking	Up to 4 configurable zones
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, Email notification, Snapshot, Alarm output, 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, 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
Audio Interface	1 input (3.5 mm), 1 output (3.5 mm)
Alarm Interface	1 input, 2 outputs
RS-485	1 × RS-485
Wiegand Port	1 × Wiegand (26-bit, SHA-1 26-bit, 34-bit, and NEWG 72-bit)
SD Card Slot	Built-in microSD card slot (up to 1 TB)
Reset Button	Supported

General

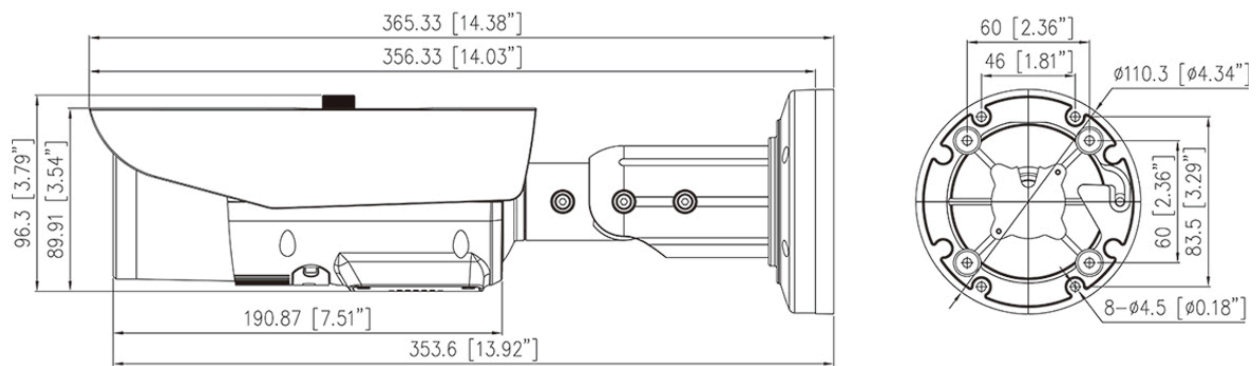
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC (-15% to +25%) / PoE (802.3af)
Power Consumption	Max 13.2 W
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Operating Humidity	< 95% RH, non-condensing
Ingress Protection	IP66, IK10
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	φ110 × 356.3 mm (φ4.33 × 14.03 inch)
Net Weight	Approx. 1.72 kg (3.79 lb)

DORI Distance (EN 62676-4 standard)

Detect	4.1–12.8 mm: 73–177 m (240–581 ft) 8–32 mm: 142–402 m (466–1,320 ft) 10–50 mm: 147–553 m (482–1,814 ft)
Observe	4.1–12.8 mm: 29.2–70.8 m (96–232 ft) 8–32 mm: 56.8–160.8 m (186–528 ft) 10–50 mm: 58.8–221.2 m (193–726 ft)

Recognize	4.1–12.8 mm: 14.6–35.4 m (48–116 ft) 8–32 mm: 28.4–80.4 m (93–264 ft) 10–50 mm: 29.4–110.6 m (96–363 ft)
Identify	4.1–12.8 mm: 7.3–17.7 m (24–58 ft) 8–32 mm: 14.2–40.2 m (47–132 ft) 10–50 mm: 14.7–55.3 m (48–181 ft)

Dimensions (mm)



Accessories

Optional:



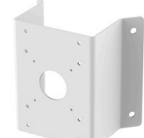
SN-CBK645G
Junction Box



SN-CBK627D
Pole Mount



SN-CBK101
Pole Mount



SN-CBK102
Corner Mount