

IK-B4877FR-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 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), loitering, 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 80 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-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: 0.0025 Lux @ (F1.2, AGC ON), B/W: 0.0005 @ (F1.2, 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 (optional)
Max. Aperture	F1.5–F2.5 (4.1–12.8 mm), F1.6 (8–32 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°
Iris	Auto Iris
Focus Control	Motorized focus
Illuminator	
Illuminator Type	IR
IR wavelength	850 nm
Illumination Distance	4.1–12.8 mm: up to 70 m (229.7 ft) 8–32 mm: up to 80 m (262.5 ft)
Illuminator 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
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, 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/ 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, 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	Typical: 4.5 W (12 VDC), Max (IR on + Focusing): 12.1 W (12 VDC)
Operating Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Operating Humidity	< 95% RH (Non-condensing)
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 housing; PC components
Dimensions	303 × 100 × 107 mm (11.9 × 3.94 × 4.21 inch)
Net Weight	Approx. 1.33 kg (2.93 lb)

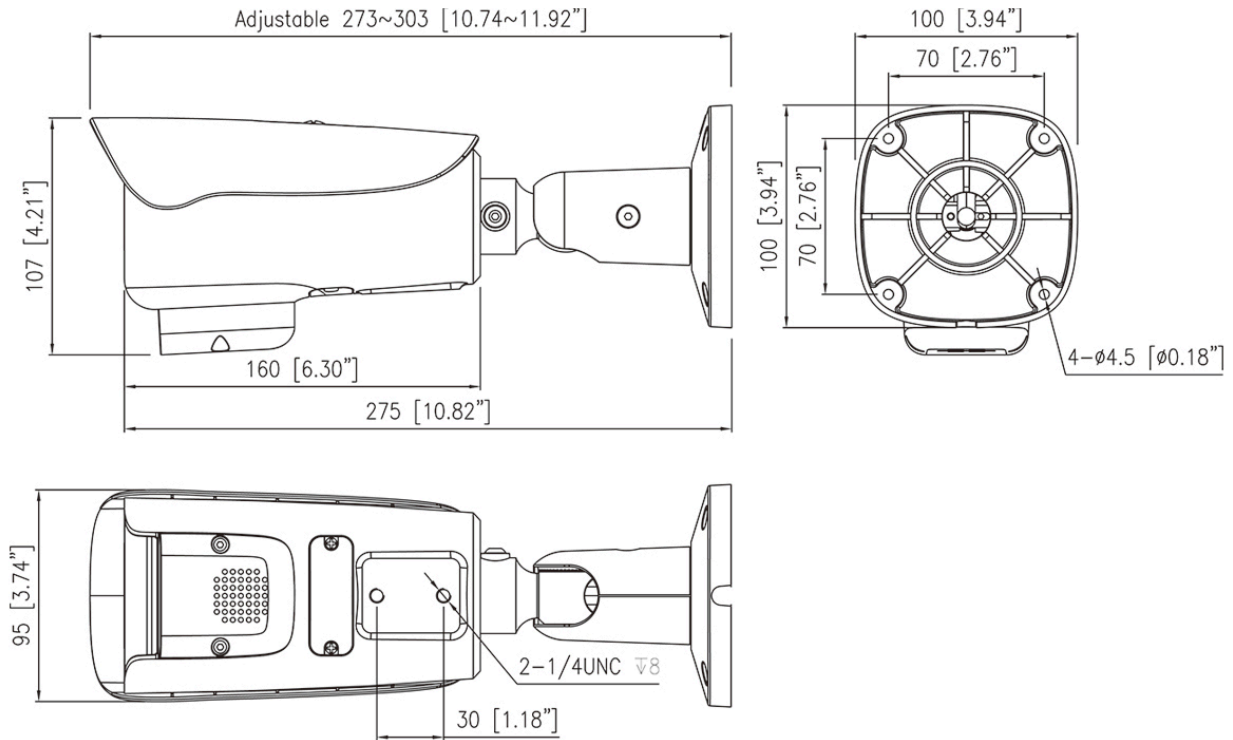
DORI Distance (EN 62676-4 standard)

Detect	4.1–12.8 mm: 73–177 m (240–581 ft) 8–32 mm: 142–402 m (466–1,320 ft)
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)
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)

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)

Dimensions (mm)

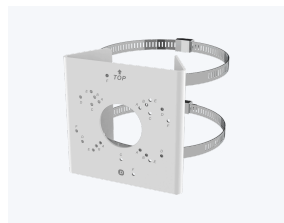


Accessories

Optional:



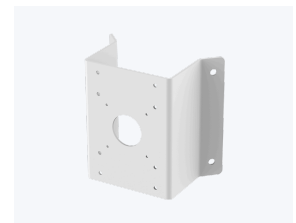
IK-AJ45G
Junction Box



IK-AP27D
Pole Mount Bracket



IK-AP01
Pole Mount Bracket



IK-ACR02
Corner Mount Bracket