

IK-T6831FC-B

8MP 180° Panoramic Smart Dual Light Turret Network Camera



Key Features

- 1/2.7" progressive scan CMOS, up to 8MP (3840 × 2160) @ 20 fps
- 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, people counting, and heat map
- Built-in IR and warm light illumination up to 25 m
- Built-in red and blue strobe lights with audible alarm for active deterrence
- Built-in microphone and speaker for two-way audio
- 1/1 alarm I/O; built-in microSD card slot (up to 1 TB)
- IP66-rated protection

Specifications

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	8 MP (3840 × 2160)
Shutter Speed	1/5 to 1/20,000s
Min. Illumination	Color: 0.05 Lux @ (F2.0, AGC ON), B/W: 0.01 Lux @ (F2.0, AGC ON), 0 Lux with illuminator on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 80°, Rotation: 0° to 360°
Lens	
Lens Type	Fixed-focal lens
Focal Length	1.6 mm
Max. Aperture	F2.0
Field of View (FOV)	H: 180°, V: 97°
Iris	Fixed Iris
Illuminator	
Illuminator Type	IR, Warm light
IR wavelength	850 nm
Illumination Distance	IR distance up to 25 m (80.02 ft) Warm light distance up to 25 m (80.02 ft)
Illuminator Control	IR mode, White mode, Intelligent mode, None
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
Heat Map	Supported
Video & Audio	
Number of Streams	3 Streams

Resolution	Stream 1: 3840 × 2160, 2592 × 1944, 2592 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 Stream 2: D1, VGA, CIF Stream 3: VGA, CIF, QVGA
Frame Rate	Up to 20 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 16 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
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 (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, White light alarm output, Red and blue light alarm
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, and Media user
Web Viewer	Chrome, Firefox, Microsoft Edge, IE11 or earlier
Security	
OS / Firmware Protect	Encrypted firmware, Secure boot, 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 log management
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
Alarm Interface	1 input, 1 output
SD Card Slot	Built-in microSD card slot (up to 1 TB)
Reset Button	Supported

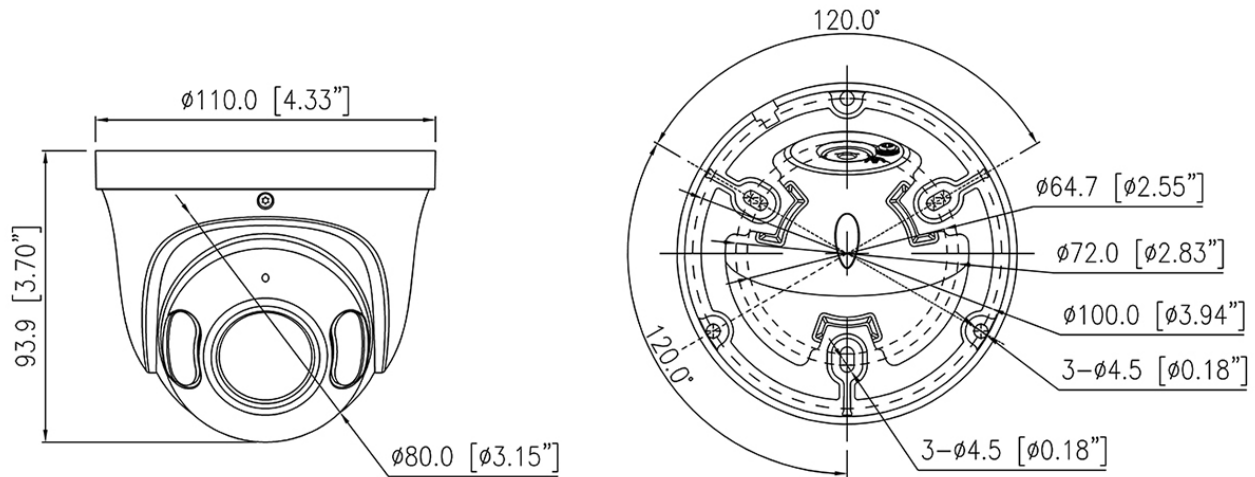
General

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: 1.65 W (12 VDC) / approx. 2.1 W (PoE); Max (with Light on + Speaker + Red/Blue Lights on): 8.1 W (12 VDC); approx. 10.1 W (PoE)
Operating Temperature	-30 °C to 60 °C (-22 °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	Φ110 × 93.9 mm (Φ4.33 × 3.70 inch)
Net Weight	Approx. 520 g (1.15 lb)

DORI Distance (EN 62676-4 standard)

Detect	41.6 m (136.5 ft)
Observe	16.6 m (54.5 ft)
Recognize	8.3 m (27.2 ft)
Identify	4.2 m (13.8 ft)

Dimensions (mm)



Accessories

Optional:



IK-AJ56B
Junction Box



IK-AW382A
Wall Mount Bracket



IK-ACC02
Pendant Cap



IK-AC02
Ceiling Mount Bracket



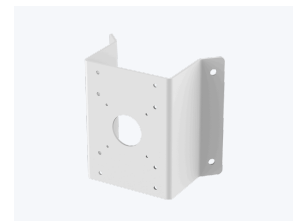
IK-AW01
Wall Mount Bracket



IK-AW02
Wall Mount Bracket



IK-AP01
Pole Mount Bracket



IK-ACR02
Corner Mount Bracket