

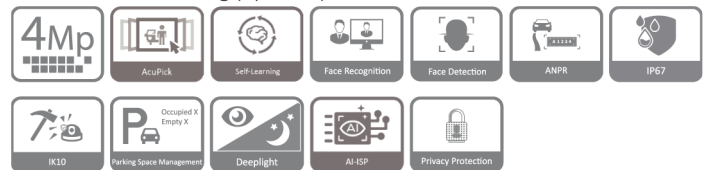


KX-EAi4305MN-EB-X4

4MP IR Bullet Network Camera



- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- Built-in IR LED, and the max. illumination distance is 120 m.
- Time-Division Exposure technology ensures that when the device is taking multiple snapshots of more than one targets, the quality of the snapshots will not be affected. It can also be used to adjust the brightness, speed and more of targets, to produce high quality snapshots.
- ROI, flexible coding, applicable to various bandwidth and storage environments.
- Two intelligent functions can be enabled at the same time, such as face recognition+people counting, face detection+people counting and PPE Detection+IVS.
- With deep learning algorithm, it supports: face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 1 TB Micro SD card.
- 12 VDC/24VAC/PoE+ (802.3at)/ePoE power supply, 12 VDC power output, max. current 165 mA and peak current is 700 mA, easy for installation.
- IP67 and IK10 protection.
- Anti-corrosion coating (optional).



Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	8 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.0006 lux@F1.6 (Color, 30 IRE) 0.0003 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56dB
Illumination Distance	Up to 120 m (393.70 ft) (IR LED)
Illuminator On/Off Control	Auto
Illuminator Number	4 (IR LED)
Angle Adjustment	Pan: 0-360° Tilt: 0-90° Rotation: 0-360°

Lens

Lens Type	Motorized vari-focal
Lens Mount	Module
Focal Length	8 mm–32 mm
Max. Aperture	F1.6

Field of View	H: 43°–15°; V: 24°–9°; D: 50°–17°				
Iris Control	Auto				
Iris Control Type	P-Iris				
Close Focus Distance	1.5 m (4.92 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	147.3 m (493.28 ft)	58.9 m (193.24 ft)	29.5 m (96.78 ft)	14.7 m (48.23 ft)
	T	395 m (1295.93 ft)	158 m (518.37 ft)	79 m (259.19 ft)	39.5 m (129.59 ft)



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Smart Event

IVS	Abandoned object; missing object
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Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle, animal and human); loitering detection, people gathering, parking detection. Supports long- distance mode. Supports self-learning, it filters out false alarms. Supports privacy protection.
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting; privacy protection
Face Recognition	There are two modes: General mode and counting mode. General mode: Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting. privacy protection Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 200,000 face pictures. Counting mode: Offers advanced customer counter, filters out specified faces from the face database, and exports reports both before and after removing duplicate faces.
PPE Detection	Triggers alarms when the detected object matches or does not match all of the configured attributes (helmets, hats, uniforms, masks, gloves, shoe covers, shoes, safety vests, seatbelts); Supports self-learning, it detects the different colors and styles of workwear.Supports privacy protection.
People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire people counting, people counting in area and queue management; privacy protection
Heat Map	Yes
ANPR	ANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color. Other attributes: Seat belt, smoking, calling. Support up to 10,000 blacklist records and 10,000 allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h.
Parking Space Management	Parking Space Management: Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on a predefined number of vehicles.

Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: License plate, vehicle type, vehicle color, vehicle logo, seatbelt, smoking, and calling. Generates flow statistics for people, motor vehicles and non-motor vehicles based on the direction, and exports reports. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. Human body attributes: Top and bottom type and color, bag, hat, gender and umbrella. privacy protection.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Acupick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people, animal, and motor vehicles, and search through live and recorded videos to quickly locate targets.

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main Stream: 2688 × 1520@(1-50/60 fps) Sub stream: 1920 × 1080@(1-25/30 fps) Third stream: 1920 × 1080@(1-25/30 fps) Fourth stream: 1920 × 1080@(1-25/30 fps) Fifth stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps)
Stream Capability	5 streams
Resolution	4M (2688 × 1520); 3M (2048 × 1536); 3M (2304 × 1296) 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps-10240 kbps; H.265: 12 kbps-10240 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	150 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)



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Region of Interest (Rol)	Yes (4 areas)
Image Stabilization	Electronic Image Stabilization (EIS)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
Time-Division Exposure	Yes

Audio

Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
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Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; parking space management; scene changing; audio detection; defocus detection; external alarm; face detection; face recognition; video metadata; ANPR; people counting in area; stay alarm; people counting; people number error detection; people stay detection; security exception; PPE detection
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Network

Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P; Auto Register
Interoperability	ONVIF (Profile S/Profile G/Profile T/ Profile M); CGI
User/Host	20 (Total bandwidth: 340 M)
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS
Browser	IE: IE11 and later; Chrome: Chrome 88.0.4324.190 and later; Firefox: Firefox 47.0.2 and later
Mobile Client	iOS; Android
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification

Port

RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	1 channel (RCA port)

Audio Output	1 channel (RCA port)
Alarm Input	3 channels in: wet contact, 5 mA 3–5 VDC
Alarm Output	2 channels out: dry contact, 1,000 mA 30 VDC/500 mA 50 VAC
Analog Output	1 channel (CVBS output: BNC)
Power Output	12 VDC power output, max. current 165 mA, peak current 700 mA

Power

Power Supply	12 VDC/24 VAC/PoE+ (802.3at)/ePoE
Power Consumption	Basic: 7.3 W (12 VDC); 10.2 W (24 VAC); 10.6 W (PoE) Max. (ICR switch + IR intensity): 18.2 W (12 VDC); 24.2 W (24 VAC); 24.3 W (PoE) Heating: 3 W (12 VDC); 4.6 W (24 VAC); 5.47 W (PoE)

Environment

Operating Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Operating Humidity	≤95%
Storage Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Storage Humidity	10–95%
Protection	IP67; IK10; Anti-Corrosion Protection (optional)

Structure

Casing Material	Metal + plastic
Product Dimensions	345.6 mm × 134.2 mm × 135.1 mm (13.61" × 5.28" × 5.32") (L × W × H)
Net Weight	1.65 kg (3.64 lb)
Gross Weight	2.73 kg (6.02 lb)

Dimensions (mm[inch])

