

# KX-EAi4315MN-FR-EB

## 4MP IR Bullet Network Camera

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built-in IR LED, and the max. illumination distance is 60 m.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports video metadata, face detection, face recognition, people counting, perimeter protection, etc.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS485, BNC, supports max. 256 G Micro SD card.
- 12 VDC/24 VAC/PoE power supply (the power ports are different depending on the power supply).
- IP67, IK10 protection grade.
- 12 VDC power output, max. current 165 mA, easy for installation
- Anti-corrosion coating(optional).



Camera	
Image Sensor	1/1.8" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.001 Lux@F1.2 (Color, 30 IRE) 0.0002 Lux@F1.2 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	60 m (196.85 ft)
Illuminator On/Off Control	Auto; Manual; Zoomprio
Illuminator Number	4 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°
Lens	
Lens Type	Motorized vari-focal
Lens Mount	Module interface
Focal Length	2.7-12 mm
Max. Aperture	F1.2

Field of View	Horizontal: 114° (W)–48° (T) Vertical: 59° (W)–27° (T) Diagonal: 141° (W)–55° (T)				
Iris Control	Auto; P-iris				
Close Focus Distance	1 m (3.28 ft)				
DORI Distance		Lens Detect	Observe	Recognize	Identify
	W	60.1 m (197.18 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)
	T	128.7 m (422.24 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)	12.9 m (42.32 ft)
Smart Event					
IVS	Abandoned object; missing object				
Professional, intelligent					
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); 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				

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Face Recognition	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting. Support 5 face databases; register one by one or in batches; support face recognition similarity settings and face comparison on the basis of 100,000 face databases.	Video Bit Rate	H.264: 32 kbps–10240 kbps H.265: 12 kbps–9984 kbps
Face and Body Detection	There are two modes: General mode and PPE Detection. General mode: Supports enabling face detection and human detection at the same time, and alarms can be triggered. PPE Detection: Supports PPE detection, can detect attributes including face mask, safety helmet, glasses, and safety vest, top color and bottom color, and determine whether PPE requirements are met. Alarms can be triggered according to the alarm settings.	Day/Night	Auto (ICR)/Color/B/W
People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management.	BLC	Yes
Video Metadata	Motor vehicle, non-motor vehicle, face, human detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: license plate, vehicle type, vehicle color, vehicle logo, seatbelt, smoking, calling, etc. Non-motor vehicle attributes: type, color, number of people, top type and color, helmet. Human body attributes: top/bottom type and color, bag, hat, gender, and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.	HLC	Yes
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	WDR	140 dB
<b>Video</b>		Scene Self-adaptation (SSA)	Yes
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Smart Codec	Smart H.265+; Smart H.264+	Gain Control	Auto; Manual
Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) Sub stream: 704 × 576 (1–25 fps); 704 × 480 (1–30 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)	Noise Reduction	3D NR
Stream Capability	5 streams	Motion Detection	OFF/ON (4 areas, rectangular)
Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	Region of Interest (RoI)	Yes (4 areas)
Bit Rate Control	CBR/VBR	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	4 areas
		<b>Audio</b>	
		Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723
		<b>Alarm</b>	
		Alarm Event	No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metadata; people counting in area; people counting; queue management
		<b>Network</b>	
		Network Port	RJ-45 (10/100/1000 Base-T)
		SDK and API	Yes
		Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
		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
		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
		User/Host	20 (Total bandwidth: 80 M)
		Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS

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Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later
Management Software	KBiVMS, KBView Plus
Mobile Client	iOS; Android
<b>Port</b>	
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: 5 mA 3 V–5 VDC
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC
<b>Power</b>	
Power Supply	12 VDC/24 VAC/PoE+ (802.3at)
Power Consumption	Basic power consumption: 5.11 W (12 VDC); 6.82 W (24 VAC); 7.62 W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 16.8 W (12 VDC); 20.7 W (24 VAC); 21.3 W (PoE) Heat power consumption: 3.3 W (12 VDC); 5.5 W (24 VAC); 5.5 W (PoE)
<b>Environment</b>	
Operating Conditions	–40 °C to +65 °C (–40 °F to +149 °F)/Less than 95% RH
Storage conditions	–40 °C to +65 °C (–40 °F to +149 °F)

Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)
<b>Structure</b>	
Product Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.39" × 4.27" × 3.66") (L × W × H)
Net Weight	1.58 kg (3.48 lb)
Gross Weight	2.48 kg (5.47 lb)
Gross Weight	1.28 kg (2.82 lb)
<b>Dimensions (mm[inch])</b>	

