

KX-E1224FN2-AB

12 MP IR Fisheye 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.



- 12 MP 1/1.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 12M (4000 × 3000)@25 fps; supports 8M (3280 × 2480)@25/30 fps.
- Built-in IR LED, and the max. illumination distance is 10 m.
- Intelligent monitoring: Intrusion, tripwire, heat map, and people counting.
- SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual-array Mic and speaker.
- 12 VDC/PoE power supply.
- IP67 and IK10 protection.













	Close Focus Distance	0.4 m (1.31 ft)			
	DORI Distance	Detect	Observe	Recognize	Identify
		40.0 m (131.23 ft)	16.0 m (52.49 ft)	8.0 m (26.2 ft)	4.0 m (13.12 ft)

Smart Event

Heat Map	Yes
----------	-----

Professional, intelligent

IVS (Perimeter Protection)	Intrusion; tripwire
People Counting	Supports 4 rules to count the number of people entering, exiting, and staying separately. It will trigger alarm linkage when the number of people who entering, exiting or staying exceeds the threshold. It can display and export reports based on year, month, week, day or custom time. Supports 4 rules to count the number of people in area and will trigger alarm linkage when the average strand time or people number in the area exceeds the threshold. It can display and export reports based on month, week, day or custom time. Supports 4 queue management rules to count number of people queuing and queue time in real time, and it will trigger alarm linkage when the number of people queued or queue time exceeds the threshold. It can display and export reports based on month, week, day or custom time
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

Fisheye

Installation	Ceiling mount; wall mount; ground mount
Decoding Mode	Front-dewarp; Back-dewarp; Front-dewarp+Back-dewarp

Technical Specification

Camera

Image Sensor	1/1.7" CMOS	
Max. Resolution	4000 (H) × 3000 (V)	
ROM	4 GB	
RAM	2 GB	
Scanning System	Progressive	
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	
Min. Illumination	0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)	
S/N Ratio	> 56 dB	
Illumination Distance	up to 10 m (32.81 ft) (IR)	
Illuminator On/Off Control	Auto/Manual	
Illuminator Number	3 (IR LED)	

Lens

Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	1.85mm
Max. Aperture	F2.0
Field of View	Horizontal: 185°; Vertical: 180°
Iris Control	Fixed



KX-E1224FN2-AB

12 MP IR Fisheye 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.

	Front-dewarp (hardware decoding):10; 1P; 2P; 1R; 2R; 4R; 1O+ 3R *O: Fisheye image view; P: Panoramic image view; R: Region image view	Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723	
		Alarm		
Display Mode	Back-dewarp (software decoding): fisheye view; 360° panoramic view + PTZ; dual-channel 180° panoramic view; fisheye + 2PTZ; fisheye + 3PTZ; fisheye + 4PTZ; 360° panoramic view + 6PTZ; fisheye + 8PTZ; 180° panoramic view; 180° panoramic view + 3PTZ; 180° panoramic view + 4PTZ; 180° panoramic view + 4PTZ; VR mode (panorama; semi-circle; cylinder; asteroid)	Alarm Event	No SD card; SD card full; SD card durability warning; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; people counting in area; stay detection; people counting; security exception	
Video		Network		
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)	Network Port	RJ-45 (10/100/1000 Base-T)	
Smart Codec	Smart H.265+; Smart H.264+	SDK and API	Yes	
	Main stream: 4000 × 3000@(1–25/25 fps) sub stream: 704 × 576@(1–25/30 fps) third stream: 1280 × 960@(1–17/17 fps) Fisheye mode: 10 (4000 × 3000)	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	
Video Frame Rate	1P (4096 × 1024) 2P (2432 × 2432) 1R (1216 × 1216) 2R (2432 × 2432) 4R (2432 × 2432) 4To + 3R (2432 × 2432) The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	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; Genetec; P2P (Only supported by general version)	
		User/Host	20	
Stream Capability	3 streams	Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Resolution	4000 × 3000; 3280 × 2480; 2880 × 2160; (3M) 2048 × 1536; 1.3M (1280 × 960); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	Browser	IE: IE11, IE10 Chrome: 48.0.2564.116 Firefox: 48.0.2 Edge: 42.17134.1.0	
Bit Rate Control	CBR/VBR	Port		
Video Bit Rate	H264: 8 kbps–16384 kbps H265: 3 kbps–16384 kbps	Audio Input	1 channel (RCA port)	
Day/Night	Auto(ICR)/Color/B/W	Audio Output	1 channel (RCA port)	
BLC	Yes	Alarm Input	2 channel in: wet contact,5mA 3V–5 VDC	
HLC	Yes	Alarm Output	2 channels out: dry contact,1,000mA 30 VDC/500mA 50 VDC	
WDR	DWDR	Power		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		12 VDC/PoE+	
Gain Control	Auto	Power Consumption	Basic: 6.5 W (12 VDC); 6.1 W (PoE) Max. (ICR + IR intensity): 13 W (12 VDC); 13.9 W (PoE)	
Noise Reduction	oise Reduction 3D NR		Heating: 3 W (12 VDC); 3 W (POE)	
Motion Detection	OFF/ON (4 areas, rectangular)	Environment		
Region of Interest (RoI)	Yes (4 areas)	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Defog	Yes	Operating Humidity	≤95%	
Privacy Masking	4 areas	Storage Temperature	−30 °C to +70 °C (−22 °F to +158 °F)	
Audio		Protection	IP67; IK10	
Built-in MIC	Yes, built-in dual Mic			



KX-E1224FN2-AB

12 MP IR Fisheye 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.

Structure

Casing	Metal
Product Dimensions	59.8 mm × Φ149.8 mm (2.35" × Φ5.90")
Net Weight	0.79 kg (1.74 lb)
Gross Weight	1.21 kg (2.67 lb)

Dimensions (mm[inch])



