KX-CAiF2002SN-A
2MP Full-color Fixed-focal Eyeball 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.

· 2-MP 1/2.8" CMOS image sensor, low luminance, and high-definition image.
· Outputs max. 2 MP (1920 × 1080)@25/30 fps.
· H.265 codec, high compression rate, ultra-low bit rate.
· Built-in warm light and the max. illumination distance is 30 m.
· ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
· Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
· Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
· Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
· Supports max. 256 G Micro SD card; built in Mic.
· 12 VDC/PoE power supply.
· IP67 protection.
· SMD Plus.

2Mp	SMD Plus	Perimeter Protection	Smart Codec	Full-color	IP67

Camera	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.002 lux@F1.0
S/N Ratio	>56 dB
Illumination Distance	Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	2 (Warm light)

Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F1.0
Field of View	2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°
Iris Control	Fixed

Close Focus Distance	2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.7 m (5.58 ft)			

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	45.5 m (149.28 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	4.6 m (15.09 ft)
	3.6 mm	53.8 m (176.51 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)	5.4 m (17.72 ft)

Intelligence	
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

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: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream Capability	2 streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	Color/B/W

KBVISION

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BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G.726; PCM

Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception

Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Browser	IE; Chrome; Firefox
Management Software	KBiVMS, KBView Plus

Mobile Client	iOS; Android
Cyber Security	Configuration encryption;trusted execution;Digest;security logs;WSSE;account lockout;syslog;video encryption;802.1x;IP/MAC filtering;HTTPS;trusted upgrade;trusted boot;firmware encryption;generation and importing of X.509 certification

Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2 W (12 VDC); 2.6 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator intensity): 6.2 W (12 VDC); 7.4 W (PoE)

Environment	
Operating Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure	
Casing Material	Inner core: Metal Cover: Plastic
Product Dimensions	Φ109.9 mm × 100.9 mm (Φ4.33" × 3.97")
Net Weight	0.39 kg (0.86 lb)
Gross Weight	0.51 kg (1.12 lb)

Dimensions (mm[inch])