KBVISION

KX-CAi4002SN-A

4MP IR 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.



- · 4-MP 1/2.9" CMOS image sensor, low luminance, and high-definition image.
- · Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- \cdot Built-in IR LED, 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) · Supports max. 256 G Micro SD card; built in MIC.

- · 12 VDC/PoE power supply.
- · IP67 protection.
- · SMD Plus.



Camera			Lens	Detect	Observe	Recogr	
Image Sensor	1/2.9" CMOS		2.8 mm	63.6 m	25.4 m	12.7 m	
Max. Resolution	2688 (H) × 1520 (V)	DORI Distance	2.0 1111	(208.66 ft)	. ,	(41.67 f	
ROM	128 MB		3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft	
RAM	128 MB	Intelligence		,	, ,	•	
Scanning System	Progressive	IVS (Perimeter	Intrusion, tripwire (the two functions support the				
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	Protection)	classification and accurate detection of vehicle and l				
Min Illumination	0.006 lux@F1.6 (Color, 30IRE)	Smart Search	Work together with Smart NVR to perform refine int search, event extraction and merging to event video				
Min. Illumination	0.0006 lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	Video	Video				
S/N Ratio	>56 dB	Video Compression	H.264H; H.265; H.264; H.264B; MJPEG (Only suppor the sub stream)				
Illumination Distance	30 m (98.43 ft) (IR LED)	Smart Codec	Smart H.265+; Smart H.264+				
Illuminator On/Off Control	Auto; manual		Main stream: 2688 × 1520@ (1–20 fps)/2560 × 144 25/30 fps)				
Illuminator Number	1 (IR LED)	Video Frame Rate	Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°		*The values above are the max. frame ra for multiple streams, the values will be s total encoding capacity.				
Lens		Stream Capability	2 streams				
Lens Type	Fixed-focal		4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (
Lens Mount	M12	Resolution	D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (3				
Focal Length	2.8 mm; 3.6 mm		288/352 × 240)				
Max. Aperture	F1.6	Bit Rate Control	CBR/VBR				
	2.0 mm 11, 05% 1/2 52% D. 1148	Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps				
Field of View	2.8 mm: H: 95°; V: 52°; D: 114° 3.6 mm: H: 78°; V: 41°; D: 94°						
Field of View Iris Control		Day/Night	Auto (ICR)	/Color/B/W			
	3.6 mm: H: 78°; V: 41°; D: 94°	Day/Night BLC HLC	Auto (ICR) Yes Yes	/Color/B/W			

KBVISION

KX-CAi4002SN-A

4MP IR 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.

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)				
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)				
Mirror	Yes				
Privacy Masking	4 areas				
Audio					
Built-in MIC	Yes				
Audio Compression	G.711a; G.711Mu; PCM; G.726				
Alarm					
Alarm Event	No SD card; SD card full; SD card error; network disconnecton; IP conflict; illegal access; moton detecton; video tampering; tripwire; intrusion; SMD; voltage detecton; security excepton				
Network					
Network Port	RJ-45 (10/100 Base-T)				
SDK and API					
SDK and API	Yes				
Network Protocol	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP				
	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP;				
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP				
Network Protocol Interoperability	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ONVIF (Profile S/Profile T); CGI; P2P; Milestone				
Network Protocol Interoperability User/Host	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ONVIF (Profile S/Profile T); CGI; P2P; Milestone 6 (Total bandwidth: 36 M)				
Network Protocol Interoperability User/Host Storage	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ONVIF (Profile S/Profile T); CGI; P2P; Milestone 6 (Total bandwidth: 36 M) FTP; SFTP; Micro SD card (support max. 256 GB)				
Network Protocol Interoperability User/Host Storage Browser Management	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ONVIF (Profile S/Profile T); CGI; P2P; Milestone 6 (Total bandwidth: 36 M) FTP; SFTP; Micro SD card (support max. 256 GB) IE; Chrome; Firefox				

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;Generation and importing of X.509 certification			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	Basic: 2.5 W (12 VDC); 3.3 W (PoE); Max. (ICR + H.265 + max. resolution + main stream + IR intensity + WDR + IVS): 4.2 W (12 VDC); 5.1 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)			
Protection	IP67			
Structure				
Casing Material	Inner core: Metal Cover: Plastic			
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")			
Net Weight	0.37 kg (0.82 lb)			
Gross Weight	0.56 kg (1.23 lb)			

Dimensions (mm[inch])

