KBVISION

KX-CAiF8004N-TiF-A
8MP Full-color Active Deterrence Eyeball IP Camera

· 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
· Outputs max.8MP (3840 × 2160) @20 fps (AI function enabled by default) and supports 8MP (3840 × 2160) @25/30 fps (with AI function disabled)
· H.265 codec, high compression rate, low bit rate
· Built-in warm illuminator, and the max. illumination distance: 30 m
· ROI, Smart H.265+/Smart H.264+, flexible coding, applicable to various bandwidth and storage environments
· Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
· Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
· Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
· Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing
· Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period
· Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker
· 12V DC/PoE power supply
· IP67 protection
· SMD Plus
· Red and blue flashlight alarm

Camera	
Image Sensor	1/2.8"8Megapixel progressive CMOS
Max. Resolution	3840(H) × 2160 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.007 Lux @ F1.4
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens	
Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F1.4

Field of View	2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127° 3.6 mm: Horizontal 89° × Vertical 46° × Diagonal 102°
Iris Type	Fixed
Close Focus Distance	2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2.2m (7.2 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	87.7m (287.7 ft)	35.1 m (115.2 ft)	17.5m (57.4 ft)	8.8m (28.8 ft)
	3.6 mm	110.3m (361.8 ft)	44.1m (144.7ft)	22.1m (72.5 ft)	11m (36 ft)

Professional, intelligent	
IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)
Intelligent 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: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps with AI function disabled)

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

	sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) third stream:1280 × 1080 @ (1–25/30 fps)	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
Stream Capability	3 streams	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	User/Host	20 (Total bandwidth: 80 M)
		Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Bit Rate Control	CBR/VBR	Browser	IE: IE8 and later Chrome Firefox Safari: Safari 12 and later
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps		
Day/Night	Color/B/W	Management Software	KBiVMS, KBView Plus
BLC	Yes	Mobile Phone	IOS; Android
HLC	Yes	**Port**	
WDR	120 dB	Audio Input	1 channel (RCA port)
Scene Self-adaptation (SSA)	Yes	Audio Output	1 channel (RCA port)
		Alarm Input	1 channel in: 5mA 3V–5V DC
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	Alarm Output	1 channel out: 300mA 12V DC
Gain Control	Auto/Manual	**Power**	
Noise Reduction	3D NR	Power Supply	12V DC/PoE (802.3af)
Motion Detection	OFF/ON (4 areas)	Power Consumption	Basic power consumption: 3.1W (DC12V); 3.5W (POE)Max. power consumption (WDR + H.265 + red and blue lights flashing alternately + warm light + sound alarm): 7.8W (DC12V); 8.2W (POE)
Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Support with 1920 × 1080 resolution and lower)	**Environment**	
		Operating Conditions	−40°C to +60°C (−40°F to +140°F)/Less than 95% RH
Mirror	Yes	Storage Conditions	−40°C to +60°C (−40°F to +140°F)
Privacy Masking	4 areas	Protection Grade	IP67
Audio		**Structure**	
Built-in MIC	Yes	Casing	Metal
Audio Compression	PCM, G.711a, G.711Mu, G726	Dimensions	Φ122.0 mm × 110.9 mm (4.8" × 4.4")
Alarm		Net Weight	754 g (1.7 lb)
Alarm Event	No SD card; SD card full; SD card error; service life warning; networkdisconnection; IP conflict; illegal access; motiondetection; video tampering; tripwire; intrusion; audiodetection; voltage detection; external alarm; SMD; safetyexception; light alarm; sound alarm (11 built-in soundsand custom voices importing)	Gross Weight	915 g (2.0 lb)
		Dimensions (mm[inch])	
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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		