KX-CAiF8003N-TiF-A

8MP Full-color Active Deterrence Bullet IP Camera

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

· 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.264+/H.265+, flexible coding, applicable to various band width and storage environments
· Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
· Intelligent detection: Tripwire, intrusion (the three functions 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	2 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens	
Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm; 3.6 mm

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: 2.2 m (7.2 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	87.7 m (287.7ft)	35.1 m (115.2 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)
	T	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11 .0 m (36.1 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)

KBVISION

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	sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)
Stream Capability	3 streams
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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	PCM, G.711a, G.711Mu, G726
Alarm	
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)
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

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
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
User/Host	20 (Total bandwidth: 72 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	KBiVMS, KBView Plus
Mobile Phone	IOS; Android
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 3.2W (12V DC); 4.2W (PoE) Max. power consumption (WDR + H.265 + red and blue lights intensity + warm light + max. sound alarm): 8.2W (12V DC); 9.7W (PoE)
Environment	
Operating Conditions	−40°C to +60°C (−40°F to +140°F)/Less than 95% RH
Storage Conditions	−40°C to +60°C (−40°F to +140°F)
Protection Grade	IP67
Structure	
Casing	Metal + plastic
Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.4" × 3.7" × 3.3") (L × W × H)
Net Weight	1.0 kg (2.2 lb)
Gross Weight	1.23 kg (2.7 lb)

Dimensions (mm/inch)

288.4 [11.35]
197.3 [7.77]
94.4 [3.72]
84.7 [3.33]
⌀90.4 [⌀3.56]
⌀70.0 [⌀2.76]
3-⌀4.7 [⌀0.19]