KX-CAiF8005MN2-TiF-A
8MP Smart Dual Illumination Bullet 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.

· 8-MP 1/2.8" CMOS image sensor, low luminance, and high-definition image.
· Outputs max. 8 MP (3840 × 2160) @25/30 fps.
· H.265 codec, high compression rate, ultra-low bit rate.
· Built-in warm light and IR LED; the max. IR illumination distance is 50 m and warm light distance is 40 m.
· ROI, SMART H.264+/H.265+, AI 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 function support the classification and accurate detection of vehicle and human).
· Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
· Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual MICs; 1-ch speaker; support two-way talk.
· 12 VDC/PoE power supply.
· IP67 protection.
· Sound and light alarm (red and blue lights).
· SMD 4.0.
· One-click arming/disarming through alarm input.

Camera	
Image Sensor	1/2.8" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	1 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	50 m (164.04 ft) (IR) 40 m (131.23 ft) (warm light)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (IR LED) 2 (warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens	
Lens Type	Motorized vari-focal
Mount Type	φ16
Focal Length	2.7 mm–13.5 mm

Max. Aperture	F1.0			
Field of View	Horizontal: 108°–34° Vertical: 56°–19° Diagonal: 130°–39°			
Iris Type	Fixed			
Close Focus Distance	1.5 m (4.92 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	89.9 m (294.95 ft)	36.0 m (118.11 ft)	18.0 m (59.06 ft)	9.0 m (29.53 ft)
	T	257.4 m (844.49 ft)	103.0 m (337.93 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)

Professional, intelligent	
IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)
SMD 4.0	Less false alarm, longer detection distance
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.

Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)

KX-CAiF8005MN2-TiF-A
8MP Smart Dual Illumination Bullet Network Camera

Smart Codec	Smart H.265+; Smart H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 3840 × 2160@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps) Third stream: 1920 × 1080@ (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	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	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	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)
Image Stabilization	Electronic Image Stabilization (EIS)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
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; P2P; Milestone
User/Host	20 (Total bandwidth: 72 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8/9/11 Chrome Firefox
Management Software	KBView Plus, KBiVMS
Mobile Phone	iOS; Android
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5 VDC
Alarm Output	1 channel out: 300mA 12 VDC
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 4.3 W (12 VDC); 5.5 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.9 W (12 VDC); 9.8 W (PoE)
Environment	
Operating Conditions	−30 °C to +60 °C (−22 °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 (11.35" × 3.72" × 3.33") (L × W × H)
Net Weight	1.05 kg (2.31 lb)
Gross Weight	1.35 kg (2.98 lb)
Dimensions (mm[inch])	