KBVISION

KX-A2112N3

2 MP Entry IR Fixed-Focal Eyeball Network Camera

· 2-MP 1/2.8" CMOS image sensor, low illuminance, high image definition.
· Outputs max. 2 MP (1920 × 1080) @25/30 fps.
· H.265 codec, high compression rate, ultra-low bit rate.
· Built-in efficient IR illuminator, 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, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
· Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, and illegal access.
· 12 VDC/PoE power supply.
· IP67 protection.

Camera

Image Sensor	1/2.8" CMOS
Pixel	2MP
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100.000 s
Scanning System	Progressive
Min. Illumination	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft) (IR)
Illuminator On/Off Control	Auto, manual
Illuminator Number	1 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–78° Rotation: 0°–360°

Lens

Focal Length	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	2.8 mm: F2.0 3.6 mm: F2.0
Field of View	2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal:120° 3.6 mm: Horizontal:88°; Vertical:47°; Diagonal: 104°
Close Focus Distance	2.8 mm: 0.5 m (1.6 ft) 3.6 mm: 0.8 m (2.6 ft)
Iris Control	Fixed

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6 mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5.0 m (16.4 ft)

Video

Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Streaming 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)
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.
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
WDR	DWDR
HLC	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, 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

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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.

Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception

Network

Ethernet	RJ-45 (10/100Base-T)
SDK and API	Yes
Cyber Security	Video encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; Trusted boot; Trusted upgrade
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Interoperability	ONVIF(Profile S); CGI; P2P
Streaming Method	Unicast/Multicast
User/Host	6 (total bandwidth 36 MB)
Storage	FTP
Browser	IE; Chrome; Firefox
Management Software	KBiVMS, KBView Plus
Mobile Phone	IOS, Android

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.4W (12 VDC); 2.2 W (PoE) Max. (ICR + H.265+IR intensity): 3.5 W (12 VDC); 4.6 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	Inner core: Metal + Plastic Cover: Plastic Decoration ring: Plastic Pedestal: Plastic
Product Dimensions	85.5 mm × Φ109 mm (3.4" × Φ4.3")
Net Weight	0.24 kg (0.5 lb)
Gross Weight	0.37 kg (0.8 lb)

Dimensions (mm[inch])