

KX-A4012WN-A

4 MP IR Fixed-focal WiFi 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 1/3" CMOS image sensor, low luminance, and high-definition image.
- Outputs max. 4 MP (2560 × 1440) @20 fps, and supports 3 MP (2304 × 1296) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- DWDR, 3D NR, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access.
- Built-in dual-antenna 2.4G Wi-Fi that covers a range of up to 150 m in an open area.
- Supports max.256 G Micro SD card. Built-in MIC and speaker.
- 12 VDC power supply.
- IP67 protection



Camera	
Image Sensor	1/3" CMOS
Max. Resolution	2560 (H) × 1440 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.03 Lux@F2.0 (Color, 30 IRE)
	0.003 Lux@F2.0 (B/W, 30 IRE)
	0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.43 ft)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	1 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°
Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F2.0
Field of View	2.8 mm: Horizontal: 90°; Vertical: 50°; Diagonal: 107°
	3.6 mm: Horizontal: 76°; Vertical: 40°; Diagonal: 92°
Iris Control	Fixed

Close Focus Distance	2.8 mm: 1.0 m (3.28 ft)				
	3.6 mm: 1.4 m (4.59 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	68.0 m (223.10 ft)	27.2 m (89.24 ft)	13.6 m (44.62 ft)	6.8 m (22.31 ft)
	3.6mm	85.2 m (279.53 ft)	34.1 m (111.88 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)
Video					
Video Compression	H.264B; H.264; H.264H; H.265				
Smart Codec	Smart H.265+; Smart H.264+				
Video Frame Rate	Main stream: 2560 × 1440 (1–20 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.				
Stream Capability	2 streams				
Resolution	2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720)				
Bit Rate Control	CBR/VBR				
Video Bit Rate	H264: 24 kbps–4096 kbps H265: 9 kbps–4096 kbps				
Day/Night	Auto (ICR)/Color/B/W				
BLC	Yes				
WDR	DWDR				
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom				
Gain Control	Auto				
Noise Reduction	3D NR				

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Motion Detection	OFF/ON (4 areas, rectangular)
Smart Illumination	Yes
Image Rotation	0°/180°
Mirror	Yes
Audio	
Built-in MIC	Yes
Built-in Speaker	Yes
Audio Compression	G.711a; G.711Mu
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; intensity change; SMD (human)
Network	
Network Port	RJ-45 (10/100 Base-T)
Wi-Fi	IEEE802.11b/g/n 2.4–2.4835 GHz; 2.4 G
Wireless Range	Up to 150 m (The performance varies based on actual environment)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; DHCP; DNS; NTP; Multicast; RTMP
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P
User/Host	6 (Total bandwidth: 36 M)
Storage	Micro SD card (support max. 256 GB)
Browser	IE Chrome Firefox
Management Software	KBiVMS, KBView Plus

Mobile Client	iOS; Android
Power	
Power Supply	12 VDC
Power Consumption	Basic: 2.1 W (12 VDC) Max. (H.265+IR intensity): 6.1 W (12 VDC)
Environment	
Operating Temperature	-30 °C to +50 °C (-22 °F to +122 °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
Product Dimensions	∅109.9 mm × 102.2 mm (∅4.33" × 4.02")
Net Weight	352 g (0.77 lb)
Gross Weight	530 g (1.17 lb)
Dimensions (mm[inch])	

