KBVISION

KX-A2012WN-A
2 MP IR Fixed-focal WiFi Eyeball Network Camera

· 2-MP 1/2.8" CMOS image sensor, low luminance, and high-definition image.
· Outputs max. 2 MP (1920 × 1080) @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	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 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: 100°; Vertical: 53°; Diagonal: 120° 3.6 mm: Horizontal: 86°; Vertical: 43°; Diagonal: 102°
Iris Control	Fixed

Close Focus Distance	2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)
	3.6mm	58.8 m (192.91 ft)	23.5 m (77.10 ft)	11.8 m (38.71 ft)	5.9 m (19.36 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: 1920 × 1080 (1–25/30 fps) Sub stream: 640 × 480@(1–25 fps) 640 × 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	1080p (1920 × 1080); 960p (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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Design and specifications are subject to change without notice.
Pictures in the document are for reference only, and the actual product shall prevail.

Motion Detection	1024 kbps (1080p)
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: 2.2 W (12 VDC) Max. (H.265+IR intensity):6.21 W (12 VDC)
Environment	
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤ 95%
Storage Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Protection	IP67
Structure	
Casing	Inner core: Metal + Plastic Cover: Plastic
Product Dimensions	Ø109.9 mm × 102.2 mm (Ø4.33" × 4.02")
Net Weight	352 g (0.77 lb)
Gross Weight	530 g (1.17 lb)
Dimensions (mm[inch])	