

## KX-WD21

### 2MP Smart Dual Light Wi-Fi 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.



- 2-MP 1/3" 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 warm light and 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, HLC, 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, and illegal access.
- Supports max. 256 G Micro SD card; built in Mic and speaker.
- 12 VDC power supply.
- IP67 protection.
- Support Human Detection.



Camera	
Image Sensor	1/3" 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	0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6(B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 30 m (98.53 ft)
Illuminator On/Off Control	Auto
Illuminator Number	2 (IR LED); 2 (Warm light)
Angle Adjustment	Pan: 0°–360° Tilt: –60°–45°
Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F1.6

Field of View	2.8 mm: H: 98°; V: 55°; D: 115° 3.6 mm: H: 78°; V: 41°; D: 94°				
Iris Control	Fixed				
Close Focus Distance	2.8 mm: 1 m (3.28 ft) 3.6 mm: 1.7 m (5.58 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	61.2 m (200.78 ft)	24.5 m (80.38 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
Intelligence					
Human Detection	Support the classification and accurate detection of human				
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@(1–25/30 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); 1280 × 960 (1280 × 960); 1280 × 720 (1280 × 720)				
Bit Rate Control	CBR/VBR				
Video Bit Rate	H.264: 24 kbps–4096 kbps H.265: 9 kbps–4096 kbps				

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Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/180°
Mirror	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Built-in MIC	Yes, built-in Mic
Built-in Speaker	Yes, built-in speaker
Audio Compression	G.711a; G.711Mu; PCM; G.726
<b>Alarm</b>	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; abnormal audio input; intensity change; motion detection
<b>Network</b>	
Network Port	RJ-45 (10/100 Base-T)
Wi-Fi	IEEE802.11b/g/n 2.4–2.4835 GHz; 2.4 G
SDK and API	Yes
Network Protocol	IPv4; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; DHCP; DNS; NTP; Multicast; RTMP; P2P
Interoperability	ONVIF (Profile S; Profile G); CGI
User/Host	20 (Total bandwidth: 64 M)
Storage	Micro SD card (support max. 256 GB)
Browser	IE; Chrome; Firefox
Management Software	KBiVMS, KBView Plus
Mobile Client	iOS; Android

Cyber Security	Configuration encryption;trusted execution;Digest;security logs;HTTPS;trusted upgrade;WSSE;trusted boot;account lockout;generation and importing of X.509 certification;video encryption
<b>Power</b>	
Power Supply	12 VDC
Power Consumption	Basic: 2 W (12 VDC) Max. (H.265+warm light intensity): 6.5 W (12 VDC)
<b>Environment</b>	
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67
<b>Structure</b>	
Casing Material	Metal + plastic
Product Dimensions	131.0 mm × 78.4 mm × 97.2 mm (5.47" × 4.80" × 3.83") (L × W × H)
Net Weight	266.5 g (0.59 lb)
Gross Weight	515 g (1.14 lb)
<b>Dimensions (mm[inch])</b>	

