

# KX-DWai5005ZMN-EB

## 5MP IR Vari-focal 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.



- 1/2.7" 5Megapixel progressive scan CMOS
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- 20 fps@2592 × 1944, 50/60 fps@1080P(1920 × 1080)
- WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.7 mm–13.5 mm motorized lens
- Support Ryder technology and lightning protection up to 4.5 KV
- Max. IR LEDs Length 50 m
- Micro SD memory, IP67, IK10



Camera					
Image Sensor	1/2.7" 5Megapixel progressive scan CMOS				
Max. Resolution	2592 (H) × 1944 (V)				
RAM/ROM	1 GB/128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s				
S/N Ratio	> 56 dB				
Minimum Illumination	0.005 Lux@F1.5				
Illumination Distance	Distance up to 50 m (164 ft)				
Illuminator On/Off Control	Auto/Manual				
Illuminator Number	4(IR LED)				
Lens					
Lens Type	Motorized vari-focal				
Mount Type	Board-in				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Angle of View	H: 100°–28°, V: 72°–21° (2592 × 1944) H: 104°–29°, V: 55°–16° (2688 × 1520)				
Aperture Type	Auto				
Close Focus Distance	0.8 m (2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64m (210ft)	26m (85ft)	13m (43ft)	6m (20ft)
	T	212m (696ft)	85m (279ft)	42m (138ft)	21m (69ft)
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				

Artificial Intelligence	
Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
People Counting	Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm
General Intelligence	
Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly
General Intelligence	Object Abandoned/Missing
Heat Map	Yes
Video	
Compression	H.265, H.264, H.264B, H.264H, MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Streaming Capability	3 Streams
Resolution	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)

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Frame Rate	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)
	Third Stream: 1080P (1 fps–17 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC/HLC/WDR (120 dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off/On (4 Zone, Rectangle)
Region of Interest	Off/On (4 Zone)
Electronic Image Stabilization (EIS)	Yes
Smart Illumination	Yes
Defog	Yes
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off/On (4 Area, Rectangle)
<b>Audio</b>	
Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723
<b>Alarm</b>	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; Defocus Detection; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; audio detection; people counting; face detection; voltage detection; People counting in area; Stay alarm; People No. exception detection; Queue Management
<b>Network</b>	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P
User/Host	20 Users

Storage	NAS; FTP; SFTP Micro SD card 256 GB
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	KBiVMS, KBView Plus
Mobile Phone	iOS, Android
<b>Interface</b>	
Audio Interface	1/1 channel In/Out
Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC
<b>Electrical</b>	
Power Supply	DC 12V (±30%), PoE (802.3af)
Power Consumption	<10.9W
<b>Environmental</b>	
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,IK10
<b>Construction</b>	
Casing	Metal, plastic
Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")
Net Weight	1.11 kg (2.44 lb)
Gross Weight	1.51 kg (3.33 lb)
<b>Dimensions (mm[inch])</b>	

