

# KX-DWAI2203ZN

## 2MP Pro AI IR Bullet Network Camera



1/2.8" 2Megapixel progressive scan STARVIS™ CMOS  
 H.265 & H.264 triple-stream encoding  
 25/30 fps@1080P (1920 × 1080)  
 WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC  
 Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS  
 2.8 mm fixed lens (3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm optional)  
 Max. IR LEDs Length 80 m  
 Micro SD memory, IP67,IK10, support Ryder technology



Technical Specification					
<b>Camera</b>					
Image Sensor	1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				
Effective Pixels	1920 (H) × 1080 (V)				
RAM/ROM	512 MB/128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s				
Minimum Illumination	0.002 Lux@F1.6				
IR Distance	Distance up to 80 m (262 ft)				
IR On/Off Control	Auto/Manual				
IR LEDs	4				
<b>Lens</b>					
Lens Type	Fixed-focal				
Mount Type	Board-in				
Focal Length	2.8 mm, 3.6 mm, 6.0 mm, 8.0 mm, 12.0 mm				
Max. Aperture	F1.6 (2.8 mm–8.0 mm), F2.0 (12.0 mm)				
Angle of View	H: 106°, V: 57°/H: 87°, V: 46°/H: 53°, V: 30°/H: 41°, V: 23°/H: 26°, V: 14°				
Aperture Type	Fixed				
Close Focus Distance	0.6 m (1.97 ft)/1.2 m (3.94 ft)/2.5 m (8.20 ft)/4 m (13.12 ft)/8.6 m (28.22 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)
	8mm	110m(361ft)	44m(144ft)	22m(72ft)	11m(36ft)
	12mm	172m(564ft)	69m(226ft)	35m(115ft)	17m(56ft)
<b>Pan/Tilt/Rotation</b>					

Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°
<b>Artificial Intelligence</b>	
Face Detection	Support face image capture
Perimeter Protection	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
<b>General Intelligence</b>	
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
<b>Video</b>	
Compression	H.265, H.264, H.264B, H.264H, MJPEG (sub stream)
Smart Codec	Yes
Streaming Capability	3 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)
Frame Rate	Main Stream: 1080P (1 fps–25/30 fps) Sub Stream: D1 (1 fps–25/30 fps) Third Stream: 1080P (1 fps–6 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–7424 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC/HLC/WDR (120 dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual

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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)	N/A
Smart IR	Yes
Defog	Yes
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off/On (4 Area, Rectangle)
<b>Audio</b>	
Compression	N/A
<b>Network</b>	
Ethernet	RJ-45 (10/100 Base-T)
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;CMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milestone, Genetec, P2P
Streaming Method	Unicast/Multicast
Max. User Access	20 Users
Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	KBiVMS, KBiVMS Pro, KBView, KBView Plus
Smart Phone	iOS, Android
<b>Interface</b>	
Audio Interface	N/A

RS485	N/A
Alarm	N/A
<b>Electrical</b>	
Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<8.3W
Lightning protection	4.5kV
<b>Environmental</b>	
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10
<b>Construction</b>	
Casing	Metal
Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99")
Net Weight	0.815 kg (1.80 lb)
Gross Weight	1.08 kg (2.38 lb)
<b>Dimensions (mm[inch])</b>	

