



# KX-4BA2-DL-PMA

## 4MP Smart Dual Light Fixed-focal Bullet Network Camera



- 4-MP 1/2.7" SONY CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. IR light distance is 70 m and max. warm light is 70 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection. SMD Plus.
- Ryder heat dissipation, lightning protection 5000V
- Secudeep security technology.



<b>Camera</b>					
Image Sensor	1/2.7"				
Max. Resolution	2688 (H) × 1520 (V)				
ROM	128 MB				
RAM	128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/1,000,000 s				
Min. Illumination	0.001 Lux@F1.6(Color,30IRE) 0.0001 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)				
S/N Ratio	>56 dB				
Illumination Distance	Up to 70 m (IR) Up to 70 m (Warm light)				
Illuminator On/Off Control	Auto; Manual				
Illuminator Number	2 (IR LED); 2 (Warm light)				
Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				
<b>Lens</b>					
Lens Type	Fixed-focal				
Lens Mount	M12				
Focal Length	3.6 mm; 6 mm; 8 mm				
Max. Aperture	F1.6				
Field of View	3.6 mm: H: 86°; V: 42°; D: 101° 6 mm : H: 52°; V: 28°; D: 61° 8 mm : H: 40°; V: 23°; D: 46°				
Iris Control	Fixed				
Close Focus Distance	3.6 mm: 1.7 m (5.58 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6 mm	85.4 m (208.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
	6 mm	124.0 m (406.82 ft)	49.6 m (162.73 ft)	24.8 m (81.36 ft)	12.4 m (40.68 ft)
	8 mm	150.4 m (493.44 ft)	60.2 m (197.51 ft)	30.1 m (98.75 ft)	15.0 m (49.21 ft)
<b>Intelligence</b>					
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
<b>Video</b>					
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				
Smart Codec	Smart H.265+; Smart H.264+				
Video Frame Rate	Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@(1–25/30 fps); Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps); Third stream: Optional 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	3 streams				
Resolution	4M (2688 × 1520); 4M (2560 × 1440); 3M (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)				
Bit Rate Control	CBR/VBR				
Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps				
Day/Night	Auto(ICR)/Color/B/W				



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BLC	Yes
HLC	Yes
WDR	135 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G.726; PCM
<b>Alarm</b>	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception; external alarm
<b>Network</b>	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Browser	IE; Chrome; Firefox
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; generation and importing of X.509 certification
<b>Port</b>	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5 VDC
Alarm Output	1 channel out: 300mA 12 VDC
<b>Power</b>	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2 W (12 VDC); 2.6 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator on): 6.1 W (12 VDC); 7.2 W (PoE)
<b>Environment</b>	
Operating Temperature	–45 °C to +65 °C
Operating Humidity	≤95%
Storage Temperature	–45 °C to +65 °C
Storage Humidity	≤95%
Protection	IP67; IK10 (optional)
Anti-corrosion Level	Low
<b>Structure</b>	
Casing Material	Metal
Net Weight	0.72 kg (1.59 lb)
Gross Weight	0.95 kg (2.09 lb)
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)

