

KM-CD2902ASTN

2MP IR Fixed-focal Dome Network Camera



- 2-MP 1/2.7" SONY 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 40 m.
- ROI, SMART H.264 +/-H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, True-WDR 130dB, 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); SMD Plus.
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply. IP67, IK10 protection.
- Support Ryder technology, lightning protection 5000V



Camera	
Image Sensor	1/2.7" SONY CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE); 0.0001 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	40 m (IR LED)
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	F1.6
Field of View	2.8 mm: H: 106°; V: 56°; D: 127°; 3.6 mm: H: 88°; V: 44°; D: 105°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.7 m (2.30 ft); 3.6 mm: 1.3 m (4.37 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	43.9 m(144.03 ft)	17.5 m(57.41 ft)	8.8 m(28.87 ft)	4.4 m(14.44 ft)
	3.6 mm	58.9 m(193.24 ft)	23.6 m(77.43 ft)	11.8 m(38.71 ft)	5.9 m(19.36 ft)

Intelligence	
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
Video	
Video Compression	H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 1920 × 1080@ (1–25/30 fps); Sub stream: 704 × 576@ (1–25 fps)/704 × 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); 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

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Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	130 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)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnect; IP conflict; illegal access; motion detect; video tampering; tripwire; intrusion; SMD; voltage detect; security exception
Network	
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
Interoperability	ONVIE (Profile S/Profile T); CGI; P2P; Milestone
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 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
Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.9 W (12 VDC); 2.5 W (PoE); Max. (ICR + H.265 + WDR + max. Illumination + intelligence on): 4.7 W (12 VDC); 5.6 W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67, IK10
Structure	
Casing Material	Metal
Net Weight	0.34 kg (0.75 lb)
Gross Weight	0.49 kg (1.08 lb)
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")

