



## FEATURES

- 4-MP 1/2.9" 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 multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 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.
- Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- Ai Plus.

## TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.9" CMOS	
	Max. Resolution	2688 (H) × 1520 (V)	
	ROM	128 MB	
	RAM	128 MB	
	Scanning System	Progressive	
	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s	
	Min. Illumination	0.006 lux@F1.6 (Color, 30 IRE); 0.0006 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)	
	S/N Ratio	> 56 dB	
	Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)	
	Illuminator On/Off Control	Auto / Manual	
	Illuminator Number	4 (Multi-core (IR + warm) light)	
Lens	Pan/Tilt/Rotation Range	Pan: -30° to 30°; Tilt: 0° to 80°; Rotation: 0° to 360°	
	Lens Type	Fixed-focal	
	Mount Type	M12	
	Focal Length	2.8 mm;	
	Max Aperture	F1.6	
	Field of View	2.8 mm: H: 101°; V: 54°; D: 120° 3.6 mm: H: 83°; V: 43°; D: 100°	
	Iris Control	Fixed	
DORI Distance	Close Focus Distance	2.8 mm: 1.1 m (3.61 ft)	
	Lens	2.8mm	
	Detect	63.6 m( 208.66 ft)	
	Observe	25.4 m( 93.33 ft)	
	Recognize	12.7 m( 41.67 ft)	
Intelligence	Identify	6.4 m ( 21.00 ft)	
	IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)	
	SMD	SMD Plus	
	Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	

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+	
	AI Coding	AI H.265 AI 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) *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	4M (2688 × 1520/2560 × 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	
	BLC	yes	
	HLC	yes	
	WDR	120 dB	
	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	Gain Control	Auto/Manual	
	Noise Reduction	3D DNR	
	Motion Detetion	OFF/ON (4 areas, rectangular)	
	Region of Interest (RoI)	Yes (4 areas)	
	Defog	yes	
	AFSA	yes	
Audio	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
	Mirror	Yes	
Alarm	Privacy Masking	4 areas	
	Built-in MIC	Yes, built-in Mic	
	Audio Compression	G.711a; G.711Mu; G.726; PCM	
	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	

## TECHNICAL SPECIFICATIONS

Network	Network	RJ-45 (10/100Base-T)
	SDK and API	Yes
	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
	Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
	Mobile Phone	IOS, Android
	Cyber Security	Video encryption; Firmware encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Certifications		CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Port	Audio Input	1 channel (RCA port)
	Audio Output	1 channel (RCA port)
	Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC
	Alarm Output	1 channel out: wet contact, 300 mA 12 VDC

Power	Power Supply	12 VDC/PoE (802.3af)
	Power Consumption	Basic: 2.3 W (12 VDC), 2.8 W (PoE); Max.: 7.1 W (12 VDC), 8.5 W (PoE) (H.265 + intelligence on+ WDR + illuminator intensity)
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)
	Storage Humidity	≤95%
	Protection	IP67; IK10
Structure	Casing	Metal
	Product Dimensions	55.0 mm × Φ108.9 mm (2.17" × Φ4.29")
	Net Weight	0.41 kg (0.90 lb)
	Gross Weight	0.55 kg (1.21 lb)