



### 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 IR LED, and the max. illumination 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)
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- IP67 protection.
- SMD Plus.

## TECHNICAL SPECIFICATIONS

Camera	<b>Image Sensor</b>	1/2.9" CMOS		
	<b>Max. Resolution</b>	2688 (H) × 1520 (V)		
	<b>ROM</b>	128 MB		
	<b>RAM</b>	128 MB		
	<b>Scanning System</b>	Progressive		
	<b>Electronic Shutter Speed</b>	Auto/Manual 1/3 s–1/100000 s		
	<b>Min. Illumination</b>	0.006 Lux@F1.6(Color,30IRE) 0.0006 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)		
	<b>S/N Ratio</b>	> 56 dB		
	<b>Illumination Distance</b>	30 m (98.43 ft) (IR LED)		
	<b>Illuminator On/Off Control</b>	Auto / Manual		
	<b>Illuminator Number</b>	1 (IR LED)		
	<b>Pan/Tilt/Rotation Range</b>	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°		
	Lens	<b>Lens Type</b>	Fixed-focal	
<b>Lens Mount</b>		M12		
<b>Focal Length</b>		2.8 mm; 3.6 mm		
<b>Max Aperture</b>		F1.6		
<b>Field of View</b>		2.8mm: H: 95°; V: 52°; D: 114°; 3.6mm: H: 78°; V: 41°; D: 94°		
<b>Iris Type</b>		Fixed		
<b>Close Focus Distance</b>		2.8 mm: 0.9 m (2.95 ft); 3.6 mm: 1.6 m (5.25 ft)		
<b>DORI Distance</b>		Lens	2.8 mm	3.6 mm
		Detect	63.6 m (208.66 ft)	85.4 m (280.18 ft)
		Observe	25.4 m (83.33 ft)	34.2 m (112.20 ft)
	Recognize	12.7 m (41.67 ft)	17.1 m (56.10 ft)	
	Identify	6.4 m (20.99 ft)	8.5 m (27.89 ft)	
Intelligent	<b>IVS (Perimeter Protection)</b>	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)		
	<b>Smart Search</b>	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Video	<b>Video Compression</b>	H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)		
	<b>Smart Codec</b>	Smart H.265+; Smart H.264+		
	<b>Video Frame Rate</b>	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.		
	<b>Stream Capability</b>	2 streams		
	<b>Resolution</b>	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)		
	<b>Bit Rate Control</b>	CBR/VBR		
	<b>Video Bit Rate</b>	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps		
	<b>Day/Night</b>	Auto(ICR)/Color/B/W		
	<b>BLC</b>	Yes		
	<b>HLC</b>	Yes		
<b>WDR</b>	120 dB			

Video	<b>Scene Self-adaptation (SSA)</b>	Yes	
	<b>White Balance</b>	Auto; natural; street lamp; outdoor; manual; regional custom	
	<b>Gain Control</b>	Auto; manual	
	<b>Noise Reduction</b>	3D NR	
	<b>Motion Detection</b>	OFF/ON (4 areas, rectangular)	
	<b>Region of Interest (RoI)</b>	Yes (4 areas)	
	<b>Image Rotation</b>	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
	<b>Mirror</b>	Yes	
	<b>Privacy Masking</b>	4 areas	
	Audio	<b>Built-in MIC</b>	Yes
<b>Audio Compression</b>		G.711a; G.711Mu; PCM; G.726	
<b>Alarm Event</b>	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	<b>Network Port</b>	RJ-45 (10/100 Base-T)	
	<b>SDK and API</b>	Yes	
	<b>Protocol</b>	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP	
	<b>Interoperability</b>	ONVIF (Profile S/Profile T); CGI; P2P; Milestone	
	<b>User/Host</b>	6 (Total bandwidth: 36 M)	
	<b>Storage</b>	FTP; SFTP; Micro SD card (support max. 256 GB)	
	<b>Browser</b>	IE; Chrome; Firefox	
	<b>Management Software</b>	DSS; DMSS	
	<b>Mobile Phone</b>	IOS, Android	
	<b>Cyber Security</b>	Configuration encryption; Trusted execution; Digest; Security logs; WS-SE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification	
<b>Certifications</b>	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14		
Power	<b>Power Supply</b>	12 VDC/PoE (802.3af)	
	<b>Power Consumption</b>	Basic: 2.5 W (12 VDC); 3.3 W (PoE); Max. (ICR + H.265 + max. resolution + main stream + IR intensity + WDR + IVS): 4.2 W (12 VDC); 5.1 W (PoE)	
Environment	<b>Operating Temperature</b>	–40 °C to +60 °C (–40 °F to +140 °F)	
	<b>Operating Humidity</b>	≤95%	
	<b>Storage Temperature</b>	–40 °C to +60 °C (–40 °F to +140 °F)	
	<b>Protection</b>	IP67	
Structure	<b>Casing</b>	Metal	
	<b>Dimensions</b>	166.2 mm × 70 mm × 70 mm (6.54" × 2.76" × 2.76") (L × W × H)	
	<b>Net Weight</b>	0.48 kg (1.06 lb)	
	<b>Gross Weight</b>	0.59 kg (1.30 lb)	