



FEATURES

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire(support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power supply
- IP67, IK10 protection
- Built-in MIC

TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/3"4Megapixel progressive CMOS				
	Max. Resolution	2688 (H) ×1520 (V)				
	ROM	128 MB				
	RAM	512 MB				
	Scanning System	Progressive				
	Electronic Shutter Speed	Auto/Manual 1/3 s~1/100000 s				
	Min. Illumination	0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 Lux (Illuminator on)				
	S/N Ratio	> 56 dB				
	Illumination Distance	30 m (98.4ft)				
	Illuminator On/Off Control	Auto / Manual				
	Illuminator Number	8 (IR LED)				
	Pan/Tilt/Rotation Range	Pan: -30°~30°; Tilt: 0°~80°; Rotation: 0° to 360°				
	Lens	Lens Type	Fixed-focal			
Mount Type		M12				
Focal Length		2.8 mm				
Max Aperture		F1.6				
Field of View		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122°				
Iris Type		Fixed				
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft)				
DORI Distance			Lens	2.8mm	3.6mm	6mm
		Detect	56.0 m (183.7 ft)	80.0 m (262.5 ft)	120.0 m (393.7 ft)	
		Observe	22.4 m (73.5 ft)	32.0 m (105.0 ft)	48.0 m (157.5 ft)	
	Recognize	11.2 m (36.8 ft)	16.0 m (52.5 ft)	24.0 m (78.7 ft)		
	Identify	5.6 m (18.4 ft)	8.0 m (26.3 ft)	12.0 m (39.4 ft)		
Professional, Intelligent	Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)				
	Intelligent 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 sub stream)				
	Smart Codec	Smart H.265+ / Smart H.264+				
	Video Frame Rate	Main stream (2688 × 1520@1~25/30 fps)				
		Sub stream (704 × 576@1~25 fps/704 × 480@1~30 fps)				
		Third stream (1280 × 720@1~25/30 fps)				
	Stream Capability	3 streams				
	Resolution	4M (2688 × 1520); 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: 3 Kbps~8192 Kbps H.265: 3 Kbps~8192 Kbps				
	Day/Night	Auto(ICR)/Color/B/W				
	BLC	yes				
	HLC	yes				
	WDR	120 dB				
Video	Video	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)			
		Smart Illumination	Yes			
		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)			
		Mirror	Yes			
		Privacy Masking	4 areas			
		Built-in MIC	Yes			
Audio	Audio Compression	G.711a; G.711Mu; G726				
Alarm Event	Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection;scene changing; intensity change; tripwire; intrusion; SMD				
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; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP				
		Video encryption; firmware encryption; configuration 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				
	Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI;P2P;Milestone; Genetec				
	Scene Self-adaptation (SSA)	Yes				
	User/Host	20 (Total bandwidth: 64 M)				
	Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS				
	Browser	IE: IE8, IE9, IE11 Chrome Firefox				
	Management Software	Smart PSS, DSS, DMSS				
	Mobile Phone	IOS, Android				
	Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Power	Power Supply	12V DC/PoE (802.3af)				
	Power Consumption	<5.7W				
Environment	Operating Conditions	-40°C to +60°C (-40°F to +140°F)/ less than 95%				
	Storage Conditions	-40°C to +60°C (-40°F to +140°F)				
	Protection Grade	IP67; IK10				
Structure	Casing	Metal				
	Dimensions	55 mm × Φ108.9 mm (2.2" × Φ4.3")				
	Net Weight	380 g (0.8 lb)				
	Gross Weight	520 g (1.1 lb)				