



FEATURES

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- Powerful 25x optical zoom.
- Max. 25/30 fps@2M.
- IR distance up to 150 m.
- Auto Tracking 3.0.
- Face Detection.
- Motion plus Ai 4.0.
- PoE+.
- IP67, IK10.

TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.8" CMOS		
	Pixel	2 MP		
	Max. Resolution	1920 (H) × 1080 (V)		
	ROM	4 GB		
	RAM	1 GB		
	Scanning System	Progressive		
	Electronic Shutter Speed	1/1 s–1/30,000 s		
	Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)		
	Illumination Distance	150 m (492.13 ft) (IR)		
	Illuminator On/Off Control	Zoom Prio; Manual; Smart IR		
Illuminator Number	4 (IR)			
Lens	Focal Length	4.8 mm–120 mm		
	Max Aperture	F1.6–F3.5		
	Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°		
	Optical Zoom	25x		
	Focus control	Auto; semi-auto; manual		
	Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)		
	Iris control	Auto; manual		
	DORI distance	Detect	1,614 m (5,292 ft)	
		Observe	646 m (2,119 ft)	
		Recognize	323 m (1,060 ft)	
Identify		161 m (528 ft)		
Intelligence	IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification		
	Face Detection	Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.		
	Auto Tracking	Yes		
	SMD	Yes		
	Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.		
PTZ	Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°		
	Manual Control Speed	Pan: 0.1°/s–300°/s Tilt: 0.1°/s–200°/s		
	Preset Speed	Pan: 400°/s; Tilt: 300°/s		
	Preset	300		
	Tour	8 (up to 32 presets per tour)		
	Pattern	5		
	Scan	5		
	Power-off Memory	Yes		
	Idle Motion	Preset; Pattern; Tour; Scan		

Video	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; H.264B; H.264H; MJPEG (Sub Stream 1)	
	Smart Capability	3 streams	
	Video Frame Rate	Main stream: 1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)	
	Bit Rate Control	CBR/VBR	
	Resolution	4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)	
	Video Bit Rate	H264: 64 Kbps–10946 Kbps H265: 25 Kbps–6400 Kbps	
	Day/Night	Auto (ICR)/Color/B/W	
	BLC	Yes	
	WDR	120 dB	
	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp	
	Gain Control	Auto; manual	
	Noise Reduction	2D NR; 3D NR	
	Motion Detection	Yes	
	Region of Interest (RoI)	Yes	
	Image Stabilization	Electronic (EIS)	
	Defog	Electronic	
	Digital Zoom	16x	
	Image Rotation	180°	
Network	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view.	
	S/N Ratio	≥55 dB	
	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
	Network Port	RJ-45 (10/100 Base-T)	
	Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP; SSL	
	Interoperability	ONVIF(Profile S&G&T); CGI; SDK	
	Streaming Method	Unicast/Multicast	
	User/Host	20 (total bandwidth: 64 M)	
	Storage	FTP; Micro SD card (512 GB); NAS	
	Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	
	Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS	
	Mobile Client	iOS; Android	
	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1/CAN/CSA C22.2, No.60950-1	

TECHNICAL SPECIFICATIONS

Port	Alarm I/O	2/1
	Audio I/O	1/1
	Two-way Audio	Yes
	Alarm Linkage	Capture; preset; tour; pattern; recording; triggering on-off value output; audio; sending email
	Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
Power	Power Supply	24 VDC, 2.5 A \pm 25% PoE +(802.3at)
	Power Consumption	Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan)

Environment	Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
	Operating Humidity	\leq 95%
	Protection	IP67; IK10; TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	Dimensions	332 mm \times Φ 190 mm (13.07" \times Φ 7.48")
	Net Weight	4.7 kg (10.36 lb)
	Gross Weight	8 kg (17.64 lb)