



### FEATURES

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- Powerful 4.8/120mm optical zoom.
- Starlight technology.
- 120 dB true WDR, 3D NR.
- Max. 25/30 fps@1080p, 25/30/50/60 fps@720p.
- IR distance up to 100 m.
- IP66.

## TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.8" CMOS		
	Pixel	2 MP		
	Max. Resolution	1920 (H) × 1080 (V)		
	ROM	128 MB		
	RAM	256 MB		
	Scanning System	Progressive		
	Electronic Shutter Speed	1/3 s–1/30,000 s		
	Scanning System	Progressive		
	Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (IR light)		
	Illumination Distance	100 m (328.08 ft) (IR)		
	Illuminator On/Off Control	Zoom Prio; Manual		
Illuminator Number	6 (IR)			
Lens	Focal Length	4.8 mm–120 mm		
	Max Aperture	F1.6–F3.5		
	Field of View	H: 60.6°–3.2°; V: 34.1°–1.8°; D: 69.4°–3.7°		
	Optical Zoom	25x		
	Focus control	Auto; semi-auto; manual		
	Close Focus Distance	0.1 m–2 m (0.33 ft–6.56 ft)		
	Iris control	Auto; manual		
	DORI distance	Detect	1655.2 m (5430.45 ft)	
		Observe	653.8 m (2145.01 ft)	
		Recognize	331.0 m (1085.96 ft)	
Identify		165.5 m (542.98 ft)		
PTZ	Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180°		
	Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s		
	Preset Speed	Pan: 240°/s; Tilt: 200°/s		
	Preset	300		
	Tour	8 (up to 32 presets per tour)		
	Pattern	5		
	Scan	5		
	Power-off Memory	Yes		
	Idle Motion	Pattern; Preset; Scan; Tour		
	PTZ control	MT-SD Pelco-P/D (Auto recognition)		

Video	Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480)	
	Video Bit Rate	1080p (25/30 fps); 720p (25/30/50/60 fps)	
	Day/Night	Yes	
	BLC	Yes	
	HLC	Yes	
	WDR	120 dB	
	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
	Gain Control	Auto; manual	
	Noise Reduction	2D NR; 3D NR	
	Defog	Electronic	
	Digital Zoom	16x	
	Image Rotation	180°	
	Privacy Masking	Yes	
	S/N Ratio	≥50 dB	
Function	CVI Product Output Mode	TVI; CVI; CVBS; AHD (CVBS is only used for debugging)	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpart B, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1		
Port	Analog Output	1 channel (CVBS/CVI output, BNC)	
	RS-485	1 (baud rate range: 1200 bps–9600 bps)	
	Audio Input	1 channel (LINE IN, bare wire)	
	Alarm Input	2 (on-off value input: 0–5 VDC)	
	Alarm Output	1	
	Alarm Linkage	Scan; preset; tour; pattern; alarm digital output	
	Alarm Event	Alarm Input	
Power	Power Supply	12 VDC, 3 A ± 10%	
	Power Consumption	Basic: 10 W Max.: 22 W (PTZ + illuminator + heater)	
Environment	Operating Temperature	–40 °C to +70 °C (–40 °F to +158 °F)	
	Operating Humidity	≤95%	
	Protection	IP66; TVS 6000V lightning proof; surge protection; voltage transient protection	
Structure	Dimensions	269.9 mm × Φ160.0 mm (10.63" × Φ6.30")	
	Net Weight	3.0 kg (6.61 lb)	
	Gross Weight	4.2 kg (9.26 lb)	