

Image Sensor	1/2.8" Exmor CMOS	
Effective Pixels	1944(H) x 1092(V), 2 Megapixels	
Horizontal Resolution	>1000TVL	
Scanning System	Progressive	
Electronic Shutter Speed	1/3s ~1/30,000s	
Min. Illumination	Color: 0.05 Lux/F1.6, B/W: 0.005Lux/F1.6	
S/N Ratio	More than 55dB	
Camera Features		
Day/Night	Auto(ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)	
White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Gain Control	Auto / Manual	
Noise Reduction	2D / 3D	
Privacy Masking	Up to 24 areas	
Digital Zoom	16x	
Lens		
Focal Length	5.1 mm~61.2mm (12x Optical zoom)	
Max Aperture	F1.6~ F3.0	
Focus Control	Auto / Manual	
Angle of View	H: 51.3° ~ 4.64°	
Close Focus Distance	100mm~1000mm	
PTZ		
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto	
Manual Control Speed	Pan: 0.1° ~ 300°/s; Tilt: 0.1° ~120°/s	
Preset Speed	Pan: 300°/s; Tilt:200°/s	
Preset	80(DH-SD)	
PTZ Mode	5 Pattern, 8 Tour, 5 Auto Scan, Auto Pan	
Speed Setup	Human-oriented focal length/ speed	
Power up Action	Auto restore to previous PTZ and lens status	
Idle Motion	Activate Preset/Pan/Scan/Tour/Pattern if	
Video		
Compression	H.264 / MJPEG	
Resolution	1080P(1920×1080)/720P(1280×720)/D1(704	
Frame Rate	Main Stream	1080P/ D1 (1 ~ 25/30fps), 720P(1~50/60fps)
	Sub Stream	D1/CIF(1 ~ 25/30fps)
Bit Rate	H.264: 448K ~ 8192Kbps, MJPEG: 56K ~	
Audio		
Compression	G.711a / G.711u (32kbps) / PCM (128kbps)	
Interface	1/1 channel In/Out	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP,	
Compatibility	ONVIF PSIA CGI	
Max. User Access	20 users	
Smart Phone	iPhone, iPad, Android	
Auxiliary Interface		

Memory Slot	Micro SD, Max 64GB
Alarm	2/1 channel In/Out
General	
Power Supply	AC24V/1.5A ( $\pm 10\%$ ), POE plus (802.3at)
Power Consumption	12W, 22W(Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10
Dimensions	$\Phi 186\text{mm} \times 234\text{mm}$
Weight	2.3Kg