

Parameters		
Optical zoom	12X	25X
Focal length range	f=3.85 mm ~ 43.06 mm ±5%	f=7.1 mm ~ 171.95 mm ±5%
View Angle	H: 7.59°(tele) ~ 80.4°(wide) V: 4.6°(tele) ~ 50.0°(wide)	H: 2.5°(tele) ~ 59.2°(wide) V: 1.4°(tele) ~ 34.6°(wide)
AV	F1.8 ~ F3.56±5%	F1.61 ~ F5.19±5%
Sensor	1/2.5 inch SONY CMOS sensor	1/1.8 inch SONY CMOS sensor
Effective Pixels	8.51 Megapixels 16:9	
Video Format	<p>HDMI: 3840*2160p @ 60/50/30/25/59.94/29.97Hz; 1080p @ 60/50/30/25/59.94/29.97Hz; 1080I @ 60/50,30/59.94Hz; 720p @ 60/50/59.94Hz;</p> <p>12G-SDI: 3840*2160p @ 60/50/30/25/59.94/29.97Hz; 1080p @ 60/50/30/25/59.94/29.97Hz; 1080I @ 60/50/59.94Hz; 720p @ 60/50/59.94Hz;</p> <p>USB2.0: MJPG: 3840*2160 /1920*1080 /1280*720 /1024*768 /1024*576 /800*600 /720*576 /720*480 /704*576 /640*480 /640*360 /352*288 /320*240p @ 30Hz; H264: 3840*2160 /1920*1080 /1280*720 /1024*768 /1024*576 /800*600 /720*576 /720*480 /704*576 /640*480 /640*360 /352*288 /320*240p @ 30Hz; YUY2: 800*448 /720*480p @ 25; 640*360 /432*240p @ 30Hz NV12: 800*448p @ 25; 640*480 /640*360 /432*240p @ 30Hz</p> <p>USB3.0: YUY2: 1920*1080 /1280*720p @ 60/50/30/25Hz; 960*540 /800*600p @ 30Hz; 720*576p @ 50Hz; 720*480p @ 60Hz; 640*480p @ 30Hz;</p>	
Minimum Illumination	0.05Lux (F1.8, AGC ON)	
DNR	3D DNR	
White Balance	Auto / Manual / One Push / specified color temperature	
Focus	Auto / Manual / One key focus	
Exposure mode	Auto, Manual / Shutter Priority / Aperture Priority / Brightness Priority	
Aperture parameters	F1.8 ~ F11, CLOSE	
Shutter speed	1/25 ~ 1/10000	
BLC	Off/On	
Dynamic range	OFF / Dynamic Level Adjustment	
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve	
SNR	≥50dB	
Interface Features		

Interfaces	HDMI, 12G-SDI, LAN (support POE), USB2.0, A-IN, USB3.0, Micro SD, RS232-IN, RS232-OUT, RS422 (Compatible with RS485), Dial switch, DC12V, Power Switch
Video Compression	LAN: H.264, H.265 USB 2.0: MJPG, H264, H265, YUY2, NV12 USB 3.0: YUY2
Audio-in Interface	Double track 3.5mm linear Input
Audio out	HDMI, SDI, LAN
Audio Compression	AAC, G.711A
Sampling Frequency	32000, 44100, 48000
LAN	10M/100M/1000M adaptive Ethernet port, support POE and audio/video output
Network Protocol	RTSP, RTMP, ONVIF, SRT, GB/T28181; VISCA Control Protocols
Control Interface	RS232-IN, RS232-OUT, RS422 compatible with RS485
Serial Protocol	VISCA/Pelco-D/Pelco-P; Baud rate:115200/38400/9600/4800/2400
USB Communication Protocol	UVC (video)
Power Interface	HEC3800 (DC12V)
Power Adapter	In: AC110V-AC220V; Out: DC12V/2.5A
Input Voltage	DC12V±10%
Input Current	<1.5A
Power Consumption	<12W
PTZ Parameters	
Pan Rotation	-170° ~ +170°
Tilt Rotation	-30° ~ +90°
Pan Control Speed	0.1°/s ~ 100°/s
Tilt Control Speed	0.1°/s ~ 70°/s
Preset Speed	Pan: 78.8°/s, Tilt: 31.7°/s
Preset Number	255 Presets (10 presets by remote control)