



FEATURES

- 2MP Progressive Scan CMOS Sensor
- powerful 30x Optical Zoom
- Support Digital Zoom
- High Dynamic Range (120dB)
- Quadruple Streaming using State-Of-the-Art Encoding That Gives Compression (H.264 Baseline / Main Profile / High Profile / SVC / MJPEG)
- True Day & Night (ICR)
- 2D/3D Noise Reduction
- (PoE+) 60W Support for IR & Heater Activation
- Servo Feedback – return to the previous position without stalling
- Zero downtime power switching
- IR Distance up to 200 m
- IR Illumination Adjustment by Zoom Ratio
- Electrical Image Stabilizer (EIS) Support
- ONVIF Profile S Conformance
- BNC & RS-485 Support
- IP66 Weatherproof

TECHNICAL SPECIFICATION

Image Sensor	1/2.8" Sony Progressive CMOS
Optical Zoom	30x
Digital Zoom	10x
Minimum Illumination	0.02 lux (Color), 0.005 lux (B/W) @ F1.6
Wide Dynamic Range	High Dynamic Range (Up to 3 Shutter, 120 dB)
Focus Mode	Auto / Manual
White Balance	Auto / Indoor / Outdoor / ATW / Manual
Iris Control	Auto / Manual
Electronic Shutter	1/1 ~ 1/10000 sec.
AGC Control	Auto / Manual
Backlight Compensation	On / Off
Lens	
Focal Length	4.3-129 mm
Min. Focus Length	1m (Wide) ; 1.2m (tele)
F Number	F 1.6 (Wide); F 4.7 (Tele)
FOV	68.7° (Wide); 2.6° (Tele)
Operation	
Pan Travel	360° endless
Tilt Travel	-20° ~ 200°
Manual Speed Pan	0.1° ~ 90°/s
Manual Speed Tilt	0.1° ~ 60°/s
Presets	256
Preset Accuracy	0.16°
Preset Speed Pan	9° ~ 280°/s
Preset Speed Tilt	7° ~ 300°/s
Sequence	8
Auto Pan	4
Cruise	8
Privacy Mask	20 (Polygon Support)
Wide Dynamic Range	120dB
Resume after Power loss	0 downtime power switching (ZDT) support
Home Function	Preset / Sequence / Auto pan / Cruise
Auto Flip	Mechanical / Off
Motion Detection	Motion Detection Window x 4 sets

Day / Night: IR Cut Filter		On / Off
Image Rotation		Flip / Mirror / Inverse
Auto Calibration		On / Off, Servo Feedback Support
Noise Reduction 2D		On / Off
Noise Reduction 3D		On / Off
IR Distance		200m
Iris Control		DC Iris (Auto/Manual)
MIC		Optional
Network		
Networking		RJ-45, 1Gbps Ethernet
Video Compression		MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main Profile / High Profile
Video Stream	Single	Linear mode:H.264 2M @ 50/60 fps Note: Stream can be MJPEG
		HDR mode (2 Shutter): H.264 2M @25/30fps Note: Stream can be MJPEG
		HDR mode (3 Shutter): H.264 2M @25/30fps Note: Stream can be MJPEG
	Dual	Linear mode: H.264 2M @50/60 fps + H.264 SXGA @50/60 fps Note: One if the stream can be MJPEG
		HDR mode (2 Shutter):H.264 2M @25/30 fps + H.264 SXGA @25/30 fps Note: One if the stream can be MJPEG
		HDR mode (3 Shutter):H.264 2M @25/30 fps + H.264 SXGA @15 fps Note: One if the stream can be MJPEG
Quad	H. 264 2M @50/60 fps + H.264 SXGA @25/30 fps + H. 264 720P @25/30 fps + H.264 D1 @25/30 fps Note: One if the stream can be MJPEGe	
Video Resolution		2M (Full HD 1080P) / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF / QVGA
		MJPEG: Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF / QVGA
Audio Compression		G.711 / G.726 / AAC
Audio Stream		Two-way Audio

Protocols		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP
Video Transmission		Unicast/Multicast
Security		HTTPS / IP Filter / IEEE 802.1x
Alarm	Input	4 Sets / 5V 10kΩ pull up
	Output	2 Set / Relay output, max. 120mA DC 400V / 120mA AC 250V
Alarm Reaction		Preset / Sequence / Auto Pan / Cruise
RS-485		Pelco D, Pelco P, DSCP Protocol Support
BNC		Support (CVBS 1Vpp, 75 Ω)
SD Card		SD Support
SNR		>=55dB
Supported Web Browser		Internet Explore (10.0+) / Firefox / Safari
Password Levels		User and Administrator
General		
Environment		Outdoor
Operating Temperature	Outdoor	-40°C ~ 50°C (-40°F ~ 122°F)
Humidity	Outdoor	10% ~ 90%, No Condensation
Dimension	Outdoor	∅ 207.43 x 300.39 mm w/ Sunshield
Weight	Outdoor	3.8 kg
Power Source	Outdoor	802.3at (PoE+) 4-Pair 60W / AC 24V ± 20% / DC 12V
Power Consumption	Outdoor	44.5W (with IR & Heater on)
Regulatory		CE / FCC / RoHS / IP66