

- ▶ Deep Neural Network Accelerated Engine
- ▶ Edge Dewarping and Backend Dewarping
- ▶ IR LED (True day/night function)
- ▶ Weatherproof (IP66 International)*
- ▶ Vandal Proof IK10*



*optional

DNN Edge Analytic Engine

The latest Deep Neural Network edge analytic engine provides high accuracy, real-time object tracking capabilities. Moreover, it allows monitoring multiple objects at the same time.



Edge Dewarping

Edge dewarping engine enables the fisheye camera to dewarp fisheye images by camera rather than backend system. This reduces the integration effort for backend system and also enhances the flexibility of usage.



Features

- ▶ Multiple Sony Progressive Scan CMOS Sensor support up to 12M Resolution
- ▶ Edge Dewarping/Backend Dewarping
- ▶ Multi Codec support (H.265/H.264/MJPEG)
- ▶ Multiple Dewarp Display Mode Digital PTZ/ Panorama View/Quad View
- ▶ True Day/Night function (ICR)
- ▶ IR LED (working distance up to 5m)
- ▶ 3D Motion Compensated Noise Reduction (MCTF)
- ▶ ONVIF Profile S/G/T/M support
- ▶ Deep Neural Network Accelerated Engine
 - ▶ Detection and Recognition – Human / Vehicle
 - ▶ Behavior Analytics – Human / Vehicle / Object
- ▶ Smart Event function
 - ▶ External Input/ Motion Detection
 - ▶ Network Failure Detection/ Tampering Alarm
 - ▶ Periodical Event/ Manual Trigger/ Audio Detection
- ▶ Micro SD/SDHC/SDXC Card support
- ▶ Weatherproof (IP66)*
- ▶ Vandal Proof (IK10 Rating)*

* Optional

Custom Specification (Default)

Sony 12M		
Image Sensor	Sony 12M 1/1.7" Sony Progressive CMOS	
Effective Pixels	HxV = 4072 x 3046	
Video Resolution	4000 x 3000	
Pixel Size	1.85 μm	
Frame Rate (Maximum)	H.265/H.264	12M @20fps
	H.265/H.264	9M @30fps
	MJPEG	2M @30fps
Lens		
Minimum Illumination	Color	0.1 lux
	B/W	0.01 lux
Lens	Type	1/1.7" Fisheye Lens, F2.8
	Focal Length	1.65 mm
	Horizontal FOV	190°
	Vertical FOV	190°

Common Specification

Camera	
Day and Night	Removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Yes ³
Image Settings	Exposure, White Balance, Brightness, Sharpness, Contrast, Saturation, Hue, IR Threshold, Noise Reduction, Backlight Compensation, Text Overlay, Privacy Mask
Rotation	90°, 180°, 270° rotation
Video Codec	
Compression	H.265/H.264/MJPEG
Streaming	Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth LBR/VBR/CBR in H.265/H.264
Audio Codec	
Compression	G.711/G.726/AAC/LPCM
Streaming	2 way
Audio Input	Microphone built in ¹ or Line in ²
Audio Output	Speaker built in ¹ or Line out ²
Network	
Interface	10/100/1000Mbps Ethernet
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS
ONVIF	Profile S/G/T/M conformant
System Integration	
General Analytics	Motion Detection/Tampering/Audio Detection
Events Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External output Activation Video and audio recording to edge storage File Upload : FTP, network share and email Notification : HTTP, FTP, email

¹ Indoor only

² Weatherproof version only

³ Depends on sensor

General		
Casing	Metal and Plastic	
Power	PoE IEEE802.3af, class 0, max 12.95 watt DC12V, max 0.93 A, max 11.16 watt	
Connectors	RJ45	
	DC12V, Terminal Block	
	Alarm in x1, Alarm out x1, Terminal Block	
	Audio in, Terminal Block ¹ Line in, 3.5mm Jack ²	
	Audio out, Terminal Block ¹ Line out, 3.5mm Jack ²	
IR Illumination Distance	5m	
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to NAS	
Operating Conditions	-10°C~55°C, without heater -30°C~55°C, with heater 10%~90%, No Condensation	
Storage Conditions	-20°C~70°C	
Approvals	EMC	CE/FCC
	Safety	RoHS
	Environment	IP66 ² , IK10 ³
Dimensions	Ø130x57.8 mm	
Weight	565 g	

¹ Indoor only

² Weatherproof version only

³ Housing with bubble

Custom Specification



Sony 12M		
Image Sensor	Sony 12M 1/1.7" Sony Progressive CMOS	
Effective Pixels	HxV = 4072 x 3046	
Video Resolution	4000 x 3000	
Pixel Size	1.85 μm	
Frame Rate (Maximum)	H.265/H.264	12M @20fps
	H.265/H.264	9M @30fps
	MJPEG	2M @30fps
Lens		
Minimum Illumination	Color	0.1 lux
	B/W	0.01 lux
Lens	Type	1/1.7" Fisheye Lens, F2.8
	Focal Length	1.65 mm
	Horizontal FOV	190°
	Vertical FOV	190°

Sony 12M		
Image Sensor	Sony 12M 1/2.3" Sony Progressive CMOS	
Effective Pixels	HxV = 4072 x 3064	
Video Resolution	4000 x 3000	
Pixel Size	1.55 μm	
Frame Rate (Maximum)	H.265/H.264	HDR 12M @20fps
	H.265/H.264	HDR 9M @30fps
	MJPEG	HDR 2M @30fps
Lens		
Minimum Illumination	Color	0.385 lux
	B/W	0.005 lux
Lens	Type	1/2.3" Fisheye Lens, F2.0
	Focal Length	1.6 mm
	Horizontal FOV	180°
	Vertical FOV	180°

Sony 12.5M		
Image Sensor	Sony 12.5M 1/1.6" Sony Progressive CMOS	
Effective Pixels	HxV = 3552 x 3556	
Video Resolution	TBD	
Pixel Size	2.00 μm	
Frame Rate (Maximum)	H.265	HDR 12M @20fps
	H.264	HDR 12M @20fps
	MJPEG	HDR 2M @30fps
Lens		
Minimum Illumination	Color	TBD lux
	B/W	TBD lux
Lens	Type	1/1.6" Fisheye Lens, F2.0
	Focal Length	1.7 mm
	Horizontal FOV	TBD
	Vertical FOV	TBD