

- ▶ Deep Neural Network Accelerated Engine
- ▶ Outstanding High Dynamic Range
- ▶ Excellent Low Light Performance
- ▶ i-CS Lens Support Option*
- ▶ Auto Back Focus (ABF) Option*
- ▶ Dual IRIS Support



*optional

DNN Edge Analytics

The latest computer vision technology makes DNN accelerated video processing engine efficient at the edge. This engine provides high accuracy, real-time object tracking and human face detection. Moreover, it allows simultaneous detection on multiple objects.



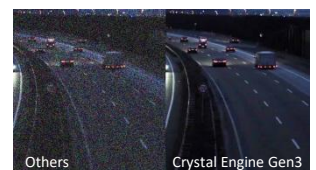
HDR Engine Gen3

The latest HDR engine delivers excellent, natural high dynamic images. Both details of high light and low light areas are kept, and no blending artifacts are generated.



Crystal Engine Gen3

Under extremely low light environment, Crystal engine gen3 delivers low noise, high quality image without compromising on details. In addition, it also keeps image sharp on motion object.



Features

- Progressive scan CMOS image sensor support up to 5M Resolution
- Multi Exposure HDR
- Multi Codec support (H.265/ H.264/ MJPEG)
- Quad Streams support
- True Day/Night function (ICR)
- 3D Motion Compensated Noise Reduction (MCTF)
- Micro SD/ SDHC/ SDXC Card support
- ONVIF Profile S/ G/ T/ M support
- Deep Neural Network Accelerated Engine
 - Face/LPR Detection and Recognition
 - Object Classification and Recognition
 - People Detection and Tracking
- Smart Event function
 - External Input/ Motion Detection
 - Network Failure Detection/ Tampering Alarm
 - Periodical Event/ Manual Trigger/ Audio Detection

OmniVision 5M			
Image Sensor	OmniVision 5M 1/2.7" Progressive CMOS		
Effective Pixels	HxV = 2720x1976 (5M)		
Pixel Size	2.0 μm		
Frame Rate (Maximum)	H.265	HDR	5M @30fps + 720p @30fps
	H.264	HDR	5M @30fps + 720p @30fps
	MJPEG	1080p	@30fps
Lens			
Minimum Illumination	Color	0.08	lux
	B/W	0.008	lux
Lens	CS Mount lens Remote focus (ABF)* i-CS lens*		

Common Specification

Intelligent Video Analytics	
General Analytics	Motion Detection/ Tampering/ Audio detection
DNN Analytics	Face Detection/ Tracking/ Recognition LPR Detection/ Recognition People Counting Human/ Vehicle Classification Object Classification/ Recognition

General	
Casing	Metal and Plastic
Power	PoE IEEE802.3af, class 0, max 9.42 watt DC12V, 0.62A, max 7.39 watt AC24V, max 8.58 watt, max 18.15 VA
Connectors	RJ45 Alarm in x2, Alarm out x1, Terminal Block DC12V Terminal Block AC24V Terminal Block Audio in 3.5mm Jack Audio out 3.5mm Jack CVBS Connector RS485 Terminal Block
Storage	Support for microSD/ microSDHC/ microSDXC card Support for recording to NAS
Operating Conditions	-30°C~55°C 10%~90%, No Condensation
Storage Conditions	-20°C~70°C
Approvals	EMC CE / FCC
Dimensions	ABF : 150x82x52 mm Non ABF : 125x80x53 mm
Weight	ABF : 395 g Non ABF : 300 g

Custom Specification

Sony 2M			
Image Sensor	Sony 2M 1/2.8" Progressive CMOS		
Effective Pixels	HxV= 1945x1097 (2M)		
Pixel Size	2.9 μm		
Frame Rate (Maximum)	H.265	HDR 1080p	@30fps + 720p @30fps
	H.264	HDR 1080p	@30fps + 720p @30fps
	MJPEG	1080p	@30fps
Lens			
Minimum Illumination	Color	0.02	lux
	B/W	0.001	lux
Lens	CS Mount lens Remote focus (ABF)* i-CS lens*		

* optional

OmniVision 5M			
Image Sensor	OmniVision 5M 1/2.7" Progressive CMOS		
Effective Pixels	HxV = 2720x1976 (5M)		
Pixel Size	2.0 μm		
Frame Rate (Maximum)	H.265	HDR 5M	@30fps + 720p @30fps
	H.264	HDR 5M	@30fps + 720p @30fps
	MJPEG	1080p	@30fps
Lens			
Minimum Illumination	Color	0.08	lux
	B/W	0.008	lux
Lens	CS Mount lens Remote focus (ABF)* i-CS lens*		

* optional

OmniVision 4M			
Image Sensor	OmniVision 4M 1/3" Progressive CMOS		
Effective Pixels	HxV = 2720x1536 (4M)		
Pixel Size	2.0 μm		
Frame Rate (Maximum)	H.265	HDR 4M	@30fps + 720p @30fps
	H.264	HDR 4M	@30fps + 720p @30fps
	MJPEG	1080p	@30fps
Lens			
Minimum Illumination	Color	0.1	lux
	B/W	0.01	lux
Lens	CS Mount lens Remote focus (ABF)* i-CS lens*		

* optional

Sony 5M			
Image Sensor	Sony 5M 1/2.8" Progressive CMOS		
Effective Pixels	HxV= 2616x1964 (5M)		
Pixel Size	2.0 μm		
Frame Rate (Maximum)	H.265	HDR 5M	@30fps + 720p @30fps
	H.264	HDR 5M	@30fps + 720p @30fps
	MJPEG	1080p	@30fps
Lens			
Minimum Illumination	Color	0.1	lux
	B/W	0.01	lux
Lens	CS Mount lens Remote focus (ABF)* i-CS lens*		

* optional

OmniVision 4M			
Image Sensor	OmniVision 4M 1/1.8" Progressive CMOS		
Effective Pixels	HxV = 2688x1520 (4M)		
Pixel Size	2.9 μm		
Frame Rate (Maximum)	H.265	HDR 4M	@30fps + 720p @30fps
	H.264	HDR 4M	@30fps + 720p @30fps
	MJPEG	1080p	@30fps
Lens			
Minimum Illumination	Color	0.1	lux
	B/W	0.01	lux
Lens	CS Mount lens Remote focus (ABF)* i-CS lens*		

* optional