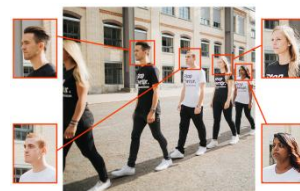


- ▶ Deep Neural Network Accelerated Engine
- ▶ Fixed lens / Mini-motorized lens available
- ▶ Crystal Engine Gen3
- ▶ HDR Engine Gen3
- ▶ IR LED built in



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 Sensor support up to 5M Resolution
- ▶ Multi Codec support (H.265/H.264/MJPEG)
- ▶ Multi Exposure line-interleaved HDR
- ▶ True Day/Night function (ICR)
- ▶ Low Latency Streaming
- ▶ 3D Motion Compensated Noise Reduction
- ▶ Quad Streams support
- ▶ Micro SD/SDHC/SDXC Card support
- ▶ IR LED (working distance up to 30m)
- ▶ 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
- ▶ ONVIF Profile S/G/T/M support
- ▶ Weatherproof (IP66)*

(*Optional)

Custom Specification (Default)

Preliminary

Sony 5M		
Image Sensor	OmniVision 5M 1/2.7" Progressive CMOS	
Effective Pixels	HxV = 2720x1976 (5M)	
Video Resolution	2560 x 1920	
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	0.2 lux
	B/W	0 lux
Lens	Type	Motorized Lens, F1.6
	Focal Length	2.8-8mm
	Horizontal FOV	110.1° (wide), 53.1° (tele)
	Vertical FOV	74.6° (wide), 38.6° (tele)

Common Specification

Camera	
Day and Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Gen3 Engine
Digital Zoom	10x
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
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 and Line in*
Audio Output	Line out and Speaker built in*
Network	
Interface	10/100 Mbps 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, RTSPS, HTTP, HTTPS, FTP, NTP, DDNS, LLDP, RTMP, SRTP
ONVIF	Profile S/G/T/M conformant
System Integration	
Event 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

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

General	
Casing	Plastic
Power	PoE IEEE802.3af, class 0 , max TBD watt DC12V, max TBD watt AC24V, max TBD watt, max TBD VA
Connectors	RJ45
	Alarm in x1, Alarm out x1, Terminal Block
	DC12V Terminal Block
	AC 24V Terminal Block
	Audio in Terminal Block(Indoor) Line In/3.5mm jack (Outdoor)
	Audio out Terminal Block(Indoor) Line Out/3.5mm jack (Outdoor)
IR Illumination Distance	CVBS Connector
	30m
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to NAS
Operating Conditions	-30°C~55°C without heater -55°C~55°C with heater 10%~90%, No Condensation
Storage Conditions	-20°C~70°C
Approvals	EMC Environment CE/FCC IP66*
Dimensions	Ø 117 x 82.9 mm
Weight	415 g

(*Optional)