

- ▶ Deep Neural Network Accelerated Engine
- ▶ Zoom lens/ Motorized lens available
- ▶ Auto Focus function
- ▶ Dual IRIS Support (Auto-IRIS & P-IRIS)
- ▶ Triple Power Support (PoE/ DC12V/ AC24V)
- ▶ IR LED built in



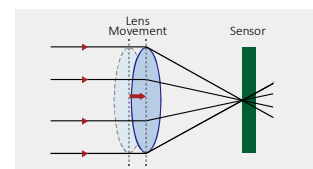
DNN Edge Analytics

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.



Auto Focus

With the zoom lens and unique algorithm, fast and reliable auto focus can be realized for different indoor and outdoor scenes. As auto focus can be done by camera itself, no on-site focus adjustment is required.



Features

- Progressive Scan CMOS Sensor support up to 8M Resolution
- Multi Exposure HDR
- Multi Codec support (H.265 / H.264 / MJPEG)
- Quad Streams support
- True Day/Night function (ICR)
- IR LED (working distance up to 40m)
- 3D Motion Compensated Noise Reduction
- 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
- Zero-Down-Time(ZDT) Power Switching

Preliminary

Custom Specification (Default)

Sony 4K			
Image Sensor	Sony 4K 1/1.8" Progressive CMOS		
Effective Pixels	HxV = 3864 x 2180 (4K)		
Video Resolution	HxV = 3840 x 2160 (4K)		
Pixel Size	2.0 μm		
Frame Rate (Maximum)	H.265	HDR	4K @30fps + 2M @30fps
	H.264	HDR	4K @30fps + 2M @30fps
	MJPEG		2M @30fps
Lens : Default			
Minimum Illumination	Color	TBD lux	
	B/W	TBD lux	
Lens	Type	Motorized Lens, F1.7	
	Focal Length	4.5-10mm	
	Horizontal FOV	101.7° (wide),46.0° (tele)	
	Vertical FOV	53.9° (wide),25.8° (tele)	

Common Specification

Camera	
Day and Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Yes
Zoom	Optical zoom, digital zoom 10x
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Image 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	Line in
Audio Output	Line out
Network	
Interface	1Gbps 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	
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 Counting Human/Vehicle Classification Object Classification/Recognition

General	
Casing	Metal and 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
	Audio out Terminal Block
	CVBS Connector
IR Illumination	Illumination distance: 40m
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	Ø124.9x128.5 mm
Weight	405 g