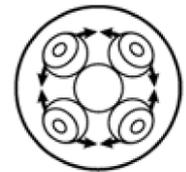


- ▶ 360° panoramic overview provided by 4 sensors
- ▶ Resolution up to 20M
- ▶ Flexible positioning for each camera head
- ▶ IR Illumination



Up to 360° Overviews

With four 5MP sensors and remote zoom/focus lenses, Multi-Directional Camera features undistorted 360° views with one IP address, which best fit in expansive area or road intersections surveillance.



Flexible and Adjustable Views

Each camera head of the Multi-Direction Camera can be individually positioned, the flexibility to set the ideal field of views simplifies the installation process and required equipment.



Pan Tile Rotate Twist

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.



Features

- ▶ Multiple Progressive Scan CMOS Sensor support up to 20M Resolution
- ▶ Multi Codec support (H.265/H.264/MJPEG)
- ▶ 360° coverage with one IP address
- ▶ True Day/Night function (ICR)
- ▶ IR Illumination
- ▶ 3D Motion Compensated Noise Reduction (MCTF)
- ▶ M.2 SATA3 SSD support
- ▶ Micro SD/SDHC/SDXC Card support
- ▶ Vandal Proof (IK10 Rating)
- ▶ 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)

Preliminary

Custom Specification (Default)

Sony 5M		
Image Sensor	Sony 5M x4 1/2.8" Progressive CMOS	
Effective Pixels	HxV = 2608 x 1964 (5M)	
Video Resolution	2560 x 1920	
Pixel Size	2.0 μm	
Frame Rate (Maximum)	H.265	HDR 5M @30fps x4
	H.264	HDR 5M @30fps x4
	MJPEG	HDR 2M @30fps x4
Lens		
Minimum Illumination	Color	0.197 lux
	B/W	0 lux
Lens	Type	Motorized Lens, F1.6 x4
	Focal Length	2.8-8mm
	Horizontal FOV	TBD
	Vertical FOV	TBD

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/Audio Detection
DNN Analytics	Face Detection/Tracking/Recognition LPR Detection/Recognition People Detection and Tracking Human/Vehicle Classification Object Classification/Recognition

Common Specification

Camera	
Day and Night	Removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Gen3 Engine
Digital Zoom	10x
Image Settings	Exposure, White Balance, Brightness, Sharpness, Contrast, Saturation, Hue, Day/Night Threshold, Noise Reduction, Backlight Compensation, Text Overlay, Privacy Mask
Rotation	90°, 180°, 270° rotation
Camera angle adjustment	
Pan Range	±90°
Tilt Range	0° to +95°
Rotate Range	±90°
Twist Range	±20°
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
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

General		
Casing	Metal and Plastic	
Power	IEEE802.3bt, Type 3, class 6, max TBD watt DC24V, max TBD watt AC24V, max TBD watt, max TBD VA	
Connectors	RJ45	
	USB Type A	
	Alarm in x2, Alarm out x2, Terminal Block	
	Audio in, Terminal Block Audio out, Terminal Block	
IR Illumination Distance	20m	
Storage	Support M.2 SATA3 SSD Support for microSD/microSDHC/microSDXC card Support for recording to NAS	
Operating Conditions	-40°C~60°C	
Storage Conditions	-20°C~70°C	
Approvals	EMC	CE/FCC
	Safety	RoHS
	Environment	IP66, IK10
Dimensions	Ø 255 x105 mm	
Weight	2.4 kg	

Custom Specification

Default

Preliminary

Sony 5M			
Image Sensor	Sony 5M x4 1/2.8" Progressive CMOS		
Effective Pixels	HxV = 2608 x 1964 (5M)		
Video Resolution	2560 x 1920		
Pixel Size	2.0 μm		
Frame Rate (Maximum)	H.265	HDR 5M @30fps	x4
	H.264	HDR 5M @30fps	x4
	MJPEG	HDR 2M @30fps	x4
Lens			
Minimum Illumination	Color	0.197	lux
	B/W	0	lux
Lens	Type	Motorized Lens, F1.6 x4	
	Focal Length	2.8-8mm	
	Horizontal FOV	TBD	
	Vertical FOV	TBD	

Omni Vision 5M			
Image Sensor	Omni Vision 5M x4 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	x4
	H.264	HDR 5M @30fps	x4
	MJPEG	HDR 2M @30fps	x4
Lens			
Minimum Illumination	Color	0.197	lux
	B/W	0	lux
Lens	Type	Motorized Lens, F1.6 x4	
	Focal Length	2.8-8mm	
	Horizontal FOV	TBD	
	Vertical FOV	TBD	