

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

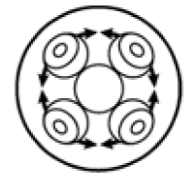


Up to 360° Overviews

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 Tilt 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)

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	0.044 lux	
	B/W	0 lux	
Lens	Type	Motorized Lens, F1.6	
	Focal Length	2.8-8mm	
	Horizontal FOV	104.5° (wide), 52.2° (tele)	
	Vertical FOV	75.0° (wide), 39.0° (tele)	

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, RTSPS, HTTP, HTTPS, FTP, NTP, DDNS, LLDP, RTMP, SRTP
ONVIF	Profile S/G/T/M conformant

General	
Casing	Metal and Plastic
Power	IEEE802.3bt, Type 3, class 5, max 32.34 watt DC24V, max 31.08 watt AC24V, max 33.76 watt, max 55.66 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 Safety Environment CE/FCC RoHS IP66, IK10
Dimensions	Ø 255 x105 mm
Weight	2.4 kg

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	0.044 lux	
	B/W	0 lux	
Lens	Type	Motorized Lens, F1.6	
	Focal Length	2.8-8mm	
	Horizontal FOV	104.5° (wide), 52.2° (tele)	
	Vertical FOV	75.0° (wide), 39.0° (tele)	

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	
	Focal Length	2.8-8mm	
	Horizontal FOV	104.9° (wide), 52.1° (tele)	
	Vertical FOV	75.3° (wide), 39.0° (tele)	

Sony 2M			
Image Sensor	Sony 2M x4 1/2.8" Progressive CMOS		
Effective Pixels	HxV = 1936 x 1100		
Video Resolution	1920 x 1080		
Pixel Size	2.9 μm		
Frame Rate (Maximum)	H.265	HDR 2M @30fps	x4
	H.264	HDR 2M @30fps	x4
	MJPEG	HDR 2M @30fps	x4
Lens			
Minimum Illumination	Color	0.135 lux	
	B/W	0 lux	
Lens	Type	Motorized Lens, F1.6	
	Focal Length	2.8-8mm	
	Horizontal FOV	114.2° (wide), 59.5° (tele)	
	Vertical FOV	56.0° (wide), 31.2° (tele)	