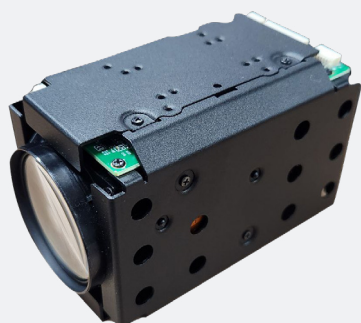# ZM-Z3234-9AA

1/3" Sony CMOS Image sensor(Global shutter)
2048 × 1536
60/50 fps(TBA), 30/25 fps
Color: 0.03 Lux @ (F.1.63, AGC ON), BW: 0Lux (IR LED)
Optical 30x Digital 10x
256 zoom/focus presets(TBA)
H.265 / H.264 / JPEG
HTTP RESTful API, Onvif

System

Product	IP

Image Sensor

Sensor	1/3" Sony CMOS Image sensor(Global shutter)
Total pixels	2,064(H) x 1,592(V) = 3.28M Pixels
Effective pixels	2,064(H) x 1,522(V) = 3.20M Pixels
Resolution	2048 × 1536
Frame Rate	60/50 fps(TBA), 30/25 fps
Min. illumination	Color: 0.03 Lux @ (F.1.63, AGC ON), BW: 0Lux (IR LED)

Lens

Zoom Ratio	Optical 30x Digital 10x
Focal Length	f = 4.6mm ~ 136.8mm
Aperture ratio	F1.63(wide) ~ F4.85(tele)
Angle Of View	H : 59°(W) ~ 2°(T) V : 34.6°(W) ~ 1.17°(T) D : 66.2°(W) ~ 2.36°(T)
Min. Distance	0.5m(Wide), 5m(Tele)
Iris	DC auto iris(TBA)
IR Cut Filter	on / off

Function

Control Mode	Auto / Manual / One Shot(=Zoom Trigger, One Push)
Presets	256 zoom/focus presets(TBA)
Day & Night	Auto, Day, Night, Ext-in
D&N Levels	10 levels (in Auto Mode)
Electronic Shutter Speed	1/25(30)/1/50(60) ~ 1/5000
White Balance Modes	Auto, Manual (3 steps or more)
Exposure Modes	Auto, Shutter Priority, Manual
Gain control	Auto / Manual
WDR	Off / On(TBA)
BLC	Off / On, Area selectable
HLC	Off / On
DNR	2D&3D
Defog	Off / Low / Middle / High
DIS	Off / On(TBA)
Mirror	Off, Vertical Flip, Horizontal Flip, H+V Flip (180degree rotation)
Privacy Mask	Max 8 Zones
Motion detection	Supported
Output Format	H.265 / H.264 / JPEG
Bitrate	512~15000 kbps

Streaming	Quadruple (x4) IP Streaming Main Stream : up to 1920 × 1080 Second Stream : up to 1280 × 720 Third Stream : up to 640 × 480 JPEG : 1920 × 1080
OSD	Title, Date, Resolution
Main UI	Web-based GUI
System Mode	NTSC / PAL

Recording

Video	TBD
JPEG	TBD

AI

Rule Engine / Tracker	TBD
Video analytics	TBD

Audio

Compression	G.711 ulaw
Sampling rate	8khz
Input & Output	1 Line In / 1 Line Out

Network

Interface	10BASE-T/100BASE-TX
Protocol	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, DNS, NTP, SMTP, FTP, UPnP, HTTP, HTTPS, SSL/TLS
Security	Password protection, IP address filtering, Https encryption, brute force delay protection
control protocol	HTTP RESTful API, Onvif

General

External devices	1x alarm input
	1x alarm output
	1x analog input(ambient light)
	1x analog output(lighting control)
	1x Uart
External Stroage	Micro SD
Power Supply	12V
Power consumption	TBD
Storage Temperature	-20°C ~ +60°C (Humidity < 90%RH, Non-condensing)
Operating Temperature	-10°C ~ +50°C (Humidity < 90%RH, Non-condensing)
Dimension	TBD
Weight	TBD
Certifications	NA

Dimension

*TBD : To be Determined / *TBA : To be Added