

SG-ZCM4052ND(I)-O(2)

- 4Megapixel 52x Long Range Zoom (Ultra) Starlight Network and Digital Dual Output (OIS) Camera Module



1. Features

- > 1/1.8" Sony Exmor CMOS Sensor.
- > Powerful 52x optical zoom (15-775mm).
- > Max. 4Mp(2688x1520) Resolution
- > Support various IVS functions
- > Support EIS and Optical Defog
- > **Support LVDS digital video output synchronously.**
- > **-O2 version support OIS function (Optical Image Stabilization)**
- > **-I version is using Hisilicon new generation of AI noise reduction ISP, restoring the true color world.**

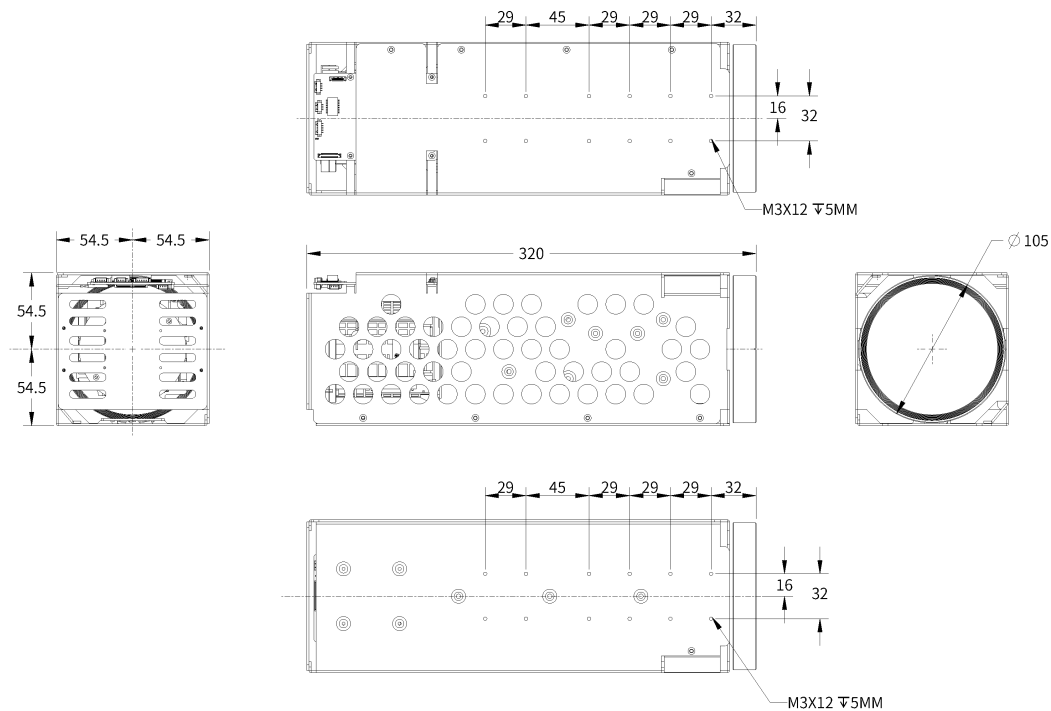
2. Specification

Model		SG-ZCM4052ND-O	SG-ZCM4052NDI-O	SG-ZCM4052ND-O2	
Sensor	Image Sensor	1/1.8" Sony Starvis progressive scan CMOS			
	Effective Pixels	Approx. 4.17 Megapixel			
Lens	Focal Length	15mm~775mm, 52x Optical Zoom			
	Aperture	F2.8~F8.2			
	Field of View	H: 29.1°~0.57°, V: 16.7°~0.32°, D: 33.2°~0.66°			
	Close Focus Distance	1m~10m (Wide~Tele)			
	Zoom Speed	Approx. 7s (Optical Wide~Tele)			
	DORI Distance (Human)	Detect	Observe	Recognize	Identify
	10,808m	4,289m	2,162m	1,081m	
Video	Compression	H.265/H.264/H.264H/MJPEG			
	Streaming Capability	3 streams			
	Resolution	50Hz: 25fps@4MP(2688x1520) 60Hz: 30fps@4MP(2688x1520)			

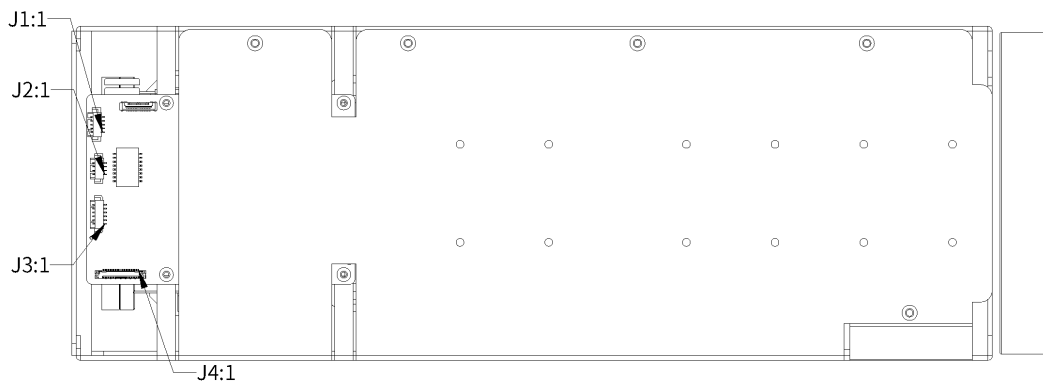
	Video Bit Rate	32kbps~16Mbps		
	Audio	AAC / MP2L2		
	LVDS Video	50Hz: 25fps@2MP(1920×1080) 60Hz: 30fps@2MP(1920×1080)		
Network	Storage	TF card (256 GB), FTP, NAS		
	Network Protocol	Onvif, HTTP, HTTPS, IPv4, IPv6, RTSP, DDNS, RTP, TCP, UDP		
	Multicast	Support		
Firmware Upgrade (LVDS)		Only can upgrade the firmware via Network port.		
General Events		Motion, Tamper, SD Card, Network		
IVS		Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection.		
S/N Ratio		≥55dB (AGC Off, Weight ON)		
Minimum Illumination		Color: 0.05Lux/F2.8; B/W: 0.005Lux/F2.8	Color: 0.005Lux/F2.8; B/W: 0.0005Lux/F2.8	Color: 0.05Lux/F2.8; B/W: 0.005Lux/F2.8
Noise Reduction		2D/3D		
AI Noise Reduction		N/A	Support	N/A
Exposure Mode		Auto, Aperture Priority, Shutter Priority, Gain Priority, Manual		
Exposure Compensation		Support		
Shutter Speed		1/1~1/30000s		
BLC		Support		
HLC		Support		
WDR		Support		
White Balance		Auto, Manual, Indoor, Outdoor, ATW, Sodium lamp, Street lamp, Natural, One Push		
Day/Night		Electrical, ICR(Auto/Manual)		
Focus Mode		Auto, Manual, Semi Auto, Fast Auto, Fast Semi Auto, One Push AF		
Electronic Defog		Support		
Optical Defog		Support, 750nm~1100nm channel is Optical Defog		
Heat Haze Reduction		Support		
Flip		Support		
EIS		Support		
OIS (Optical Image Stabilization)		N/A	N/A	Support (ON/OFF)
Digital Zoom		16x		
External Control		TTL		
Interface		4pin Ethernet port, 6pin Power & UART port, 5pin Audio port. 30pin LVDS		
Communication Protocol		SONY VISCA, Pleco D/P		
Operating Conditions		(-30°C~+60°C/20% to 80%RH)		
Storage Conditions		(-40°C~+70°C/20% to 95%RH)		
Power Supply		DC 12V		
Power Consumption		Static power: 4W, Sports power: 9.5W	Static power: 4.8W, Sports power: 10.2W	Static power: 4W, Sports power: 9.5W

Dimensions(L*W*H)	320mm*109mm*109mm
Weight	3100g

3. Dimension



4. Interface Definition



Network Interface

Type	PIN Number	PIN Name	Description
J2_4pin Ethernet Interface	1	ETHRX-	Adaptive Ethernet port, Internet RX-
	2	ETHRX+	Adaptive Ethernet port, Internet RX+
	3	ETHTX-	Adaptive Ethernet port, Internet TX-
	4	ETHTX+	Adaptive Ethernet port, Internet TX+
J3_6pin Power & UART Interface	1	DC_IN	DC12V
	2	GND	GND
	3	RXD1	TTL Level 3.3V, Pelco Protocol
	4	TXD1	TTL Level 3.3V, Pelco Protocol
	5	RXD0	TTL Level 3.3V, Visca Protocol
	6	TXD0	TTL Level 3.3V, Visca Protocol

J1_5pin Audio Interface	1	AUDIO_OUT	Audio Out (Line Out)
	2	GND	GND
	3	AUDIO_IN	Audio In (Line In)
	4	GND	GND
	5	NC	NC

LVDS Interface

Port	Number	PIN Name	Description
J4_30pin LVDS Interface (Similar to SONY 30pin Digital Interface)	1	NC	NC
	2	NC	
	3	NC	
	4	NC	
	5	NC	
	6	NC	
	7	NC	
	8	NC	
	9	GND	GND
	10	GND	
	11	GND	
	12	GND	
	13	DC_IN	DC power input (DC+7V~+12V)
	14	DC_IN	
	15	DC_IN	
	16	DC_IN	
	17	DC_IN	
	18	UART1_TX	TTL level 3.3V, VISCA protocol, the same to TXD0 on J3_6pin Port. But cannot connect at the same time.
	19	UART1_RX	TTL level 3.3V, VISCA protocol, the same to RXD0 on J3_6pin Port. But cannot connect at the same time.
	20	GND	GND
	21	TXOUT0-	
	22	TXOUT0+	
	23	TXOUT1-	
	24	TXOUT1+	
	25	TXOUT2-	
	26	TXOUT2+	
	27	TXOUTCLK-	
	28	TXOUTCLK+	
	29	TXOUT3-	
	30	TXOUT3+	

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