SG-ZCM2080ND-O

- 2Megapixel 80x Long Range Zoom Starlight Network and Digital Dual Output Camera Module

1. Features

> 1/1.8” Sony Exmor CMOS Sensor.

> Powerful 80x optical zoom (15-1200mm).

> Max. 2Mp(1920x1080) Resolution

> Support various IVS functions

> Support Optical Defog

> Support video output from the network port.

> Support various OSD information overlay

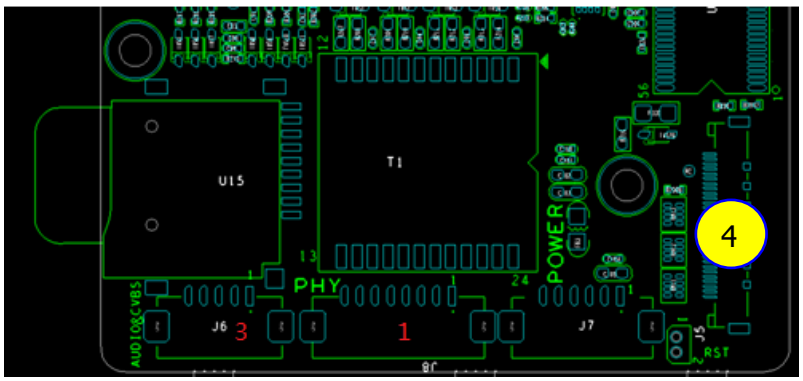
> Support LVDS digital video output synchronously.

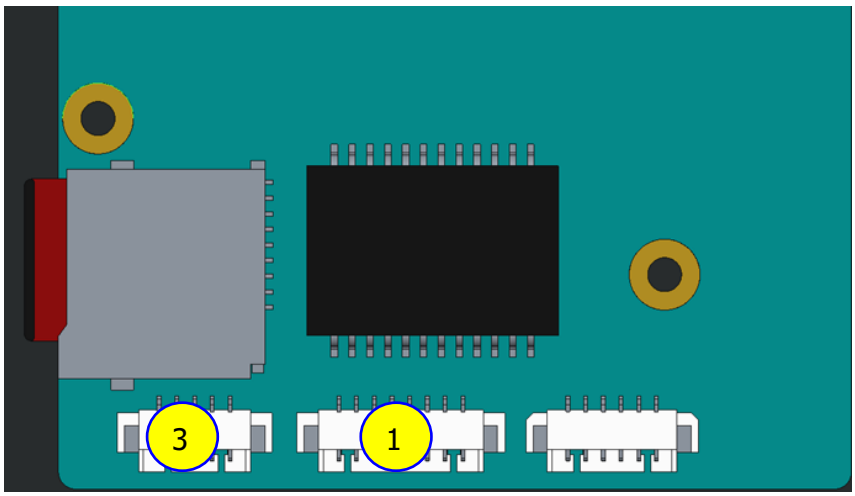
2. Specification

Model		SG-ZCM2080ND-O
Sensor	Image Sensor	1/1.8" Sony Exmor CMOS
	Effective Pixels	Approx. 4.53 Megapixel
	Max. Resolution	2688(H) x 1520(V)
Lens	Focal Length	15mm ~ 1200mm, 80x Optical Zoom
	Aperture	F2.1~9
	Close Focus Distance	5m~10m (Wide ~ Tale)
	Angle of View	23°~0.3°
Video Network	Compression	H.265/H.264/H.264H/MJPEG
	Storage Capabilities	TF card, up to 128G
	Network Protocol	Onvif, GB28181, HTTP, RTSP, RTP, TCP, UDP
Resolution		50Hz: 25/50fps@2Mp(1920x1080) 60Hz: 30/60fps@2Mp(1920x1080)
LVDS Video		50Hz: 25/50fps@2Mp(1920×1080) 60Hz: 30/60fps@2Mp(1920×1080)

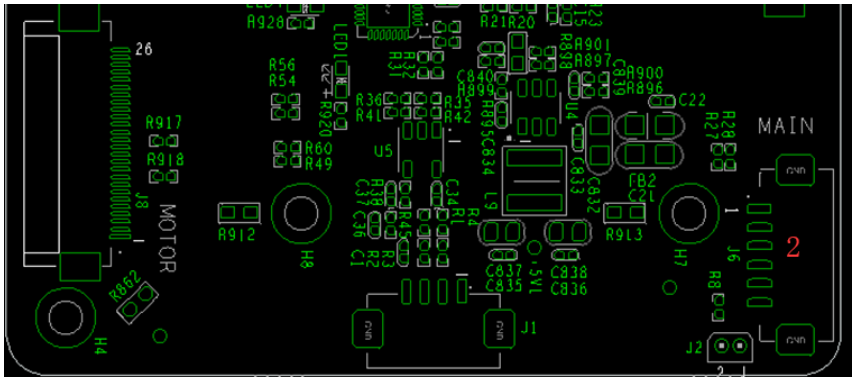
Firmware Upgrade(LVDS)	**Only can upgrade the firmware via Network port.**
IVS	Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection.
S/N Ratio	≥55dB (AGC Off, Weight ON)
Minimum Illumination	Color: 0.02Lux/F2.1; B/W: 0.001Lux/F2.1
EIS	ON/OFF
Exposure Compensation	ON/OFF
Strong Light Suppression	ON/OFF
Day/Night	Auto/Manual
Zoom Speed	Approx. 8s (Optical Wide-Tele)
Electronic Defog	ON/OFF
Optical Defog	Night Mode, 750nm~1100nm channel is Optical Defog
White Balance	Auto/Manual/ATW/Indoor/Outdoor/ Outdoor Auto/ Sodium lamp Auto / Sodium lamp
Electronic Shutter Speed	Auto Shutter (1/3s~1/30000s) Manual Shutter (1/3s~1/30000s)
Exposure	Auto/Manual
2D Noise Reduction	Support
3D Noise Reduction	Support
Flip	Support
External Control	TTL
Communication Interface	Compatible with the SONY VISCA Protocol
Focus Mode	Auto/Manual/Semi-automatic
Digital Zoom	4x
Operating Conditions	(-30°C~+60°C/20% to 80%RH)
Storage Conditions	(-40°C~+70°C/20% to 95%RH)
Power Supply	DC 12V±15% (Recommend: 12V)
Power Consumption	Static power: 6.5W, Sports power: 8.4W
Dimensions(L*W*H)	Approx. 395mm*145mm*150mm, Lens Diameter is 120mm
Weight	Approx. 5600g

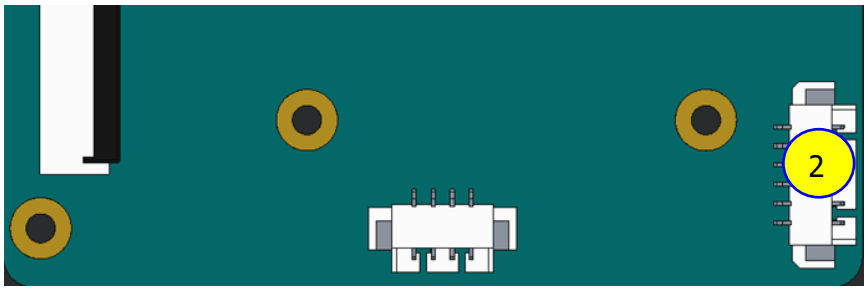
3. Interface Definition:





Front





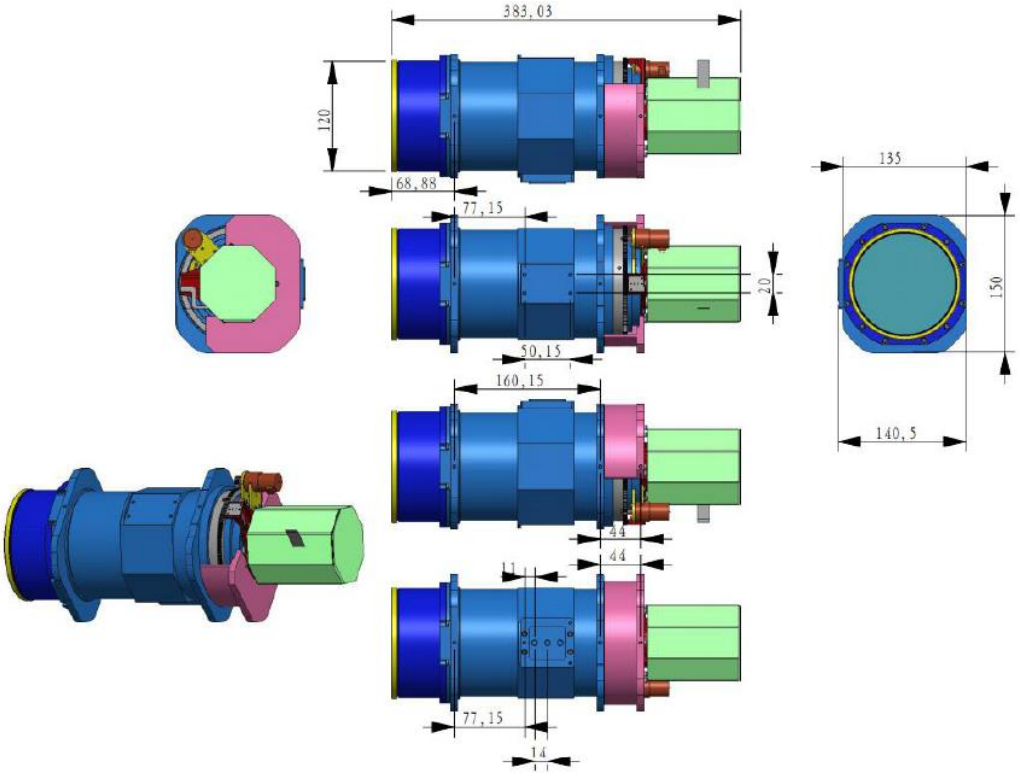
Type	PIN Number	PIN Name	Description
(1) 8PIN Internet Interface	1	ETHRX-	Adaptive Ethernet port, Internet RX-
	2	ETHRX+	Adaptive Ethernet port, Internet RX+
	3	ETHTX-	Adaptive Ethernet port, Internet TX-
	4	ETHTX+	Adaptive Ethernet port, Internet TX+
	5	RFU0	Gigabit Ethernet port compatibility
	6	RFU1	Gigabit Ethernet port compatibility
	7	RFU2	Gigabit Ethernet port compatibility
	8	RFU3	Gigabit Ethernet port compatibility
(2) 6PIN Power & UART Interface	1	DC_IN	DC12V±10%
	2	GND	GND
	3	RXD2	TTL 3.3V, Pelco Protocol
	4	TXD2	TTL 3.3V, Pelco Protocol
	5	RXD1	TTL 3.3V, Visca Protocol
	6	TXD1	TTL 3.3V, Visca Protocol
(3) Audio & Video Interface	1	AUDIO_OUT	Audio Out(Line Out)
	2	GND	GND

	3	AUDIO_IN	Audio In(Line In)
	4	GND	GND
	5	VIDEO_OUT	Video Out(CVBS)

LVDS Interface

Port	Number	PIN Name	Description
(4) LVDS interface (Similar to SONY 30PIN Digital Interface)	1	TXOUT3+	
	2	TXOUT3-	
	3	TXOUTCLK+	
	4	TXOUTCLK-	
	5	TXOUT2+	
	6	TXOUT2-	
	7	TXOUT1+	
	8	TXOUT1-	
	9	TXOUT0+	
	10	TXOUT0-	
	11	GND	Ground PIN
	12	UART1_TX	VISCA Protocol: RS-232 Camera Transmit Signal, the same to (2)TXD1 of 6PIN Port. But cannot connect at the same time. **SG Camera is CMOS 3.3V, SONY Camera is 5V.**
	13	UART1_RX	VISCA Protocol: RS-232 Camera Receive Signal, the same to (2)RXD1 of 6PIN Port. But cannot connect at the same time. **SG Camera is CMOS 3.3V, SONY Camera is 5V.**
	14	DC_IN	DC Power input (DC+7V～+12V)
	15	DC_IN	
	16	DC_IN	
	17	DC_IN	
	18	DC_IN	
	19	GND	Ground PIN
	20	GND	
	21	GND	
	22	GND	
	23	GND	
	24	GND	
	25	NC	
	26	NC	Replace Hardware Reset with Software Reset SONY Camera: CAM_RESET
	27	NC	SONY Camera: CVBS_OUT
	28	NC	SONY Camera: Y, Pb, Pr Signal
	29	NC	
	30	NC	

4. Dimension



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