

4MP Ultra Starlight Zoom Camera Module

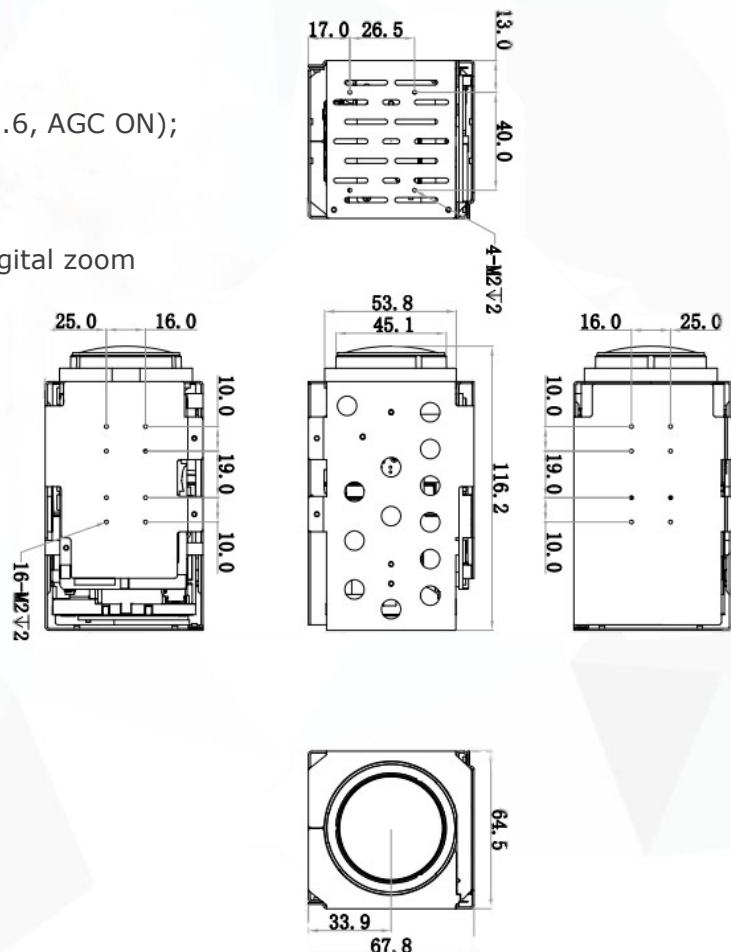
30 X ZOOM	4 MP Resolution	AI AF FOCUS	AI ISP IMAGING	1/1.8" CMOS	3 D DNR	H.265 HEVC
ULTRA STARLIGHT	ICR D/N	WDR	GYRO STABILITY	E STABILITY	LVDS	MIPI



Features

- 1/1.8" 4MP CMOS
- 2560*1440 @25/30fps, 60fps optional
- Ultra starlight, Color:0.0005 Lux @ (F1.6, AGC ON);
B/W:0.0001Lux @ (F1.6, AGC ON)
- 7.1~213mm 30X optical zoom, 16X digital zoom
- Optical Defog
- WDR
- Auto Day/Night switch
- Electronic gyroscope anti-shake
- High precision optical axis optional
- MIPI/LVDS Optional
- VISCA, PELCO-D/P
- ONVIF

Dimension



Specifications

Model		UV-ZNH4230	UV-ZNH4230M	UV-ZNH4230-E	UV-ZNH4230M-E	UV-ZNH4230D
Camera	Image Sensor	1/1.8" Progressive Scan CMOS				
	Minimum Illumination	Color:0.0005 Lux @ (F1.6, AGC ON); B/W:0.0001Lux @ (F1.6, AGC ON)				
	Shutter	1/25s to 1/100,000s; Support delayed shutter				
	Aperture	DC Drive				
	Day/Night Switch	ICR cut filter				
Lens	Focal Length	7.1~213mm, 30x Optical Zoom				
	Aperture Range	F1.61-F5.19				
	Field of View	H:59.20-2.55° (wide-tele) V:34.82-1.47° (wide-tele) D:68.68-2.94° (wide-tele)				
	Minimum Working Distance	100mm-1500mm (wide-tele)				
	Zoom Speed	Approximately 4s(optical, wide-tele)				
Compression Standard	Video Compression	H.265 / H.264				
	H.265 Type	Main Profile				
	H.264 Type	BaseLine Profile / Main Profile / High Profile				
	Video Bitrate	32 Kbps~16Mbps				
	Audio Compression	G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM				
	Audio Bitrate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/16-64Kbps(AAC)				
Image	Main Stream	50Hz: 25fps (2688×1520, 1920 × 1080, 1280 × 960, 1280 × 720); 60Hz: 30fps (2688×1520, 1920 × 1080, 1280 × 960, 1280 × 720)				
	Sub Stream	50Hz: 25fps (1920x1080 ,1280x720 ,704x576 ,640x480 ,352x288) 60Hz: 30fps (1920x1080 ,1280x720 ,704x480 ,640x480 ,352x288)				
	Third Stream	50Hz: 25fps (1280x720 ,704x576 ,640x480 ,352x240) 60Hz: 30fps (1280x720 ,704x480 ,640x480 ,352x240)				
	Image Settings	Saturation, Brightness, Contrast and Sharpness can be adjusted via the client-side or browse				
	BLC	Support				
	Exposure Mode	AE / Aperture Priority / Shutter Priority / Manual Exposure				
	Focus Mode	Auto Focus / One Focus / Manual Focus / Semi-Auto Focus				
	Area Exposure / Focus	Support				
	Defog	Support				
	Stability	EIS	EIS	Gyro EIS	Gyro EIS	EIS
	Day/Night Switch	Automatic, manual, timing, alarm trigger				
	3D Noise Reduction	Support				
	Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area				
	Region of Interest	Support three streams and four fixed areas				
Network	Storage Function	Support micro SD / SDHC / SDXC card (256g) offline local storage, NAS (NFS, SMB / CIFS support)				
	Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IPv6				
	Interface Protocol	ONVIF(PROFILE S,PROFILE G)				
Intelligent	Basic Intelligence	Motion detection, video blocking, disk detection, illegal access				
	Smart Intelligent	Area intrusion, cross-border detection, leaving the area, wandering detection, crowd gathering, fast movement, audio anomaly				
Interface	External Interface	36pin FFC (Network port, RS485, RS232, SDHC, Alarm In/Out Line In/Out, power) USB3.0				
	Digital Interface	N/A	MIPI	N/A	MIPI	LVDS
General	Working Temperature	-30°C~60°C, humidity≤95%(non-condensing)				
	Power supply	DC12V±10%				
	Power consumption	3.3W MAX (ICR, 4.4W MAX)				
	Dimensions	116.3*67.8*64.5				
	Weight	415g				

Interface Instruction

The figure shows the serial number and actual position of the interface socket. One pin starts with the socket's 1 pin or triangle symbol.

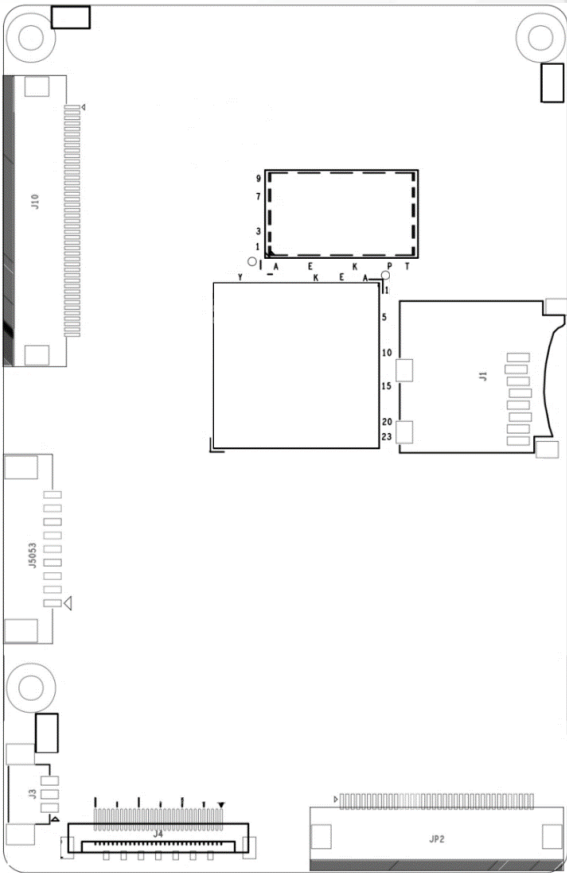
- *Note 1: J1 is a TF card socket;
- *Note 2: J3 is a serial port debugging and printing interface;
- *Note 3: J5053 connector is a USB interface;
- * LVDS and MIPI interfaces are available in two versions. Please use different versions separately.

LVDS version connector J4

JP2 36P FFC/FPC	
No.	Pin Name
1	DC_12V
2	DC_12V
3	DC_12V
4	GND
5	GND
6	CVBS_OUT
7	GND
8	LINEOUT
9	GND
10	LINEIN
11	Empty
12	TX+
13	TX-
14	RX+
15	RX-
16	GND
17	LINK#
18	ACT#
19	ALM_OUT
20	ALM_IN
21	GND
22	SD_EN
23	Empty
24	SD_CD
25	SD_CLK
26	SD_CMD
27	SD_DATA3
28	SD_DATA2
29	SD_DATA1
30	SD_DATA0
31	GND
32	RS-485-
33	RS-485+
34	UART2_TXD
35	UART2_RXD
36	SYS_RST_N

J4 LVDS USL00-30L	
No.	Pin Name
1	NC
2	NC
3	NC
4	NC
5	SYS_RST_N
6	Empty
7	GND
8	GND
9	GND
10	GND
11	GND
12	GND
13	DC_12V
14	DC_12V
15	DC_12V
16	DC_12V
17	DC_12V
18	UART2_RXD
19	UART2_TXD
20	GND
21	LVDS_TA-
22	LVDS_TA+
23	LVDS_TB-
24	LVDS_TB+
25	LVDS_TC-
26	LVDS_TC+
27	LVDS_TCLK-
28	LVDS_TCLK+
29	LVDS_TD-
30	LVDS_TD+

J4 MIPI USL00-30L	
No.	Pin Name
1	DC_12V
2	DC_12V
3	DC_12V
4	DC_12V
5	SYS_RST_N
6	UART2_TXD
7	UART2_RXD
8	CSID0P
9	CSID0N
10	CSID1P
11	CSID1N
12	CSICP
13	CSICN
14	CSID2P
15	CSID2N
16	CSID3P
17	CSID3N
18	GND
19	NC
20	NC
21	GND
22	NC
23	NC
24	GND
25	NC
26	NC
27	GND
28	NC
29	NC
30	GND



J50503 9pin-1.25mm		
Type	No.	Pin Name
4pinUSB2.0 (1.25mm socket)	1	DC_5V
	2	USB_DM
	3	USB_DP
	4	GND
USB3.0	5	USB3_RX-
	6	USB3_RX+
	7	GND
	8	USB3_TX+
	9	USB3_TX

JP4 3pin-1.25mm	
No.	Pin Name
1	RX
2	TX
3	GND