

2MP 30x Zoom Camera Module

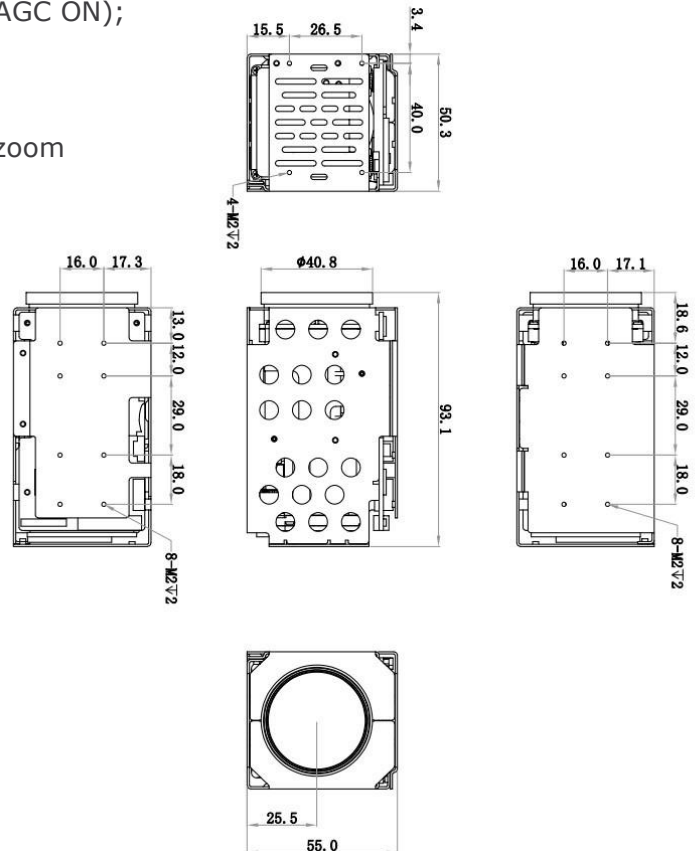
30 X ZOOM	2 MP Resolution	1/2.8" CMOS	E STABILITY	E-Defog	3 D DNR
H.265 HEVC	ICR D/N	WDR	T F	LVDS	MIPI



Features

- 1/2.8" 2MP Progressive CMOS
- 1920*1080 @30fps
- Ultra starlight, Color:0.0005 Lux @ (F1.67, AGC ON);
B/W:0.0001Lux @ (F1.67, AGC ON)
- 5.1~153mm 30X optical zoom, 16X digital zoom
- Optical Defog
- WDR
- Auto Day/Night switch
- Electronic anti-shake
- High precision optical axis optional
- MIPI/LVDS Optional
- VISCA, PELCO-D/P
- ONVIF

Dimension



Specifications

Model		UV-ZNH2130	UV-ZNH2130D	UV-ZNH2130M
Camera	Image Sensor	1/2.8" Progressive Scan CMOS		
	Minimum Illumination	Color:0.0005 Lux @ (F1.67, AGC ON); B/W:0.0001Lux @ (F1.67, AGC ON)		
	Shutter	1/25s to 1/100,000s; Support delayed shutter		
	Day/Night Switch	Auto ICR cut filter		
Lens	Focal Length	5.1~153mm, 30x Optical Zoom		
	Aperture Range	F1.67-F3.67		
	Field of View	H:55.27-2.66° (wide-tele) V:32.26-1.51° (wide-tele) D:63.99-3.06° (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 (1920 × 1080, 1280 × 960, 1280 × 720); 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)		
	Sub Stream	50Hz: 25fps (704x576 ,640x480 ,352x288) 60Hz: 30fps (704x480 ,640x480 ,352x288)		
	Third Stream	50Hz: 50fps (704x567 ,640x480 ,352x288) 60Hz: 60fps (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		
	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) USB2.0		
	Digital Interface	N/A	LVDS	MIPI
General	Working Temperature	-30℃~60℃, humidity≤95%(non-condensing)		
	Power supply	DC12V±10%		
	Power consumption	2.3W MAX (ICR, 4.3W MAX)		
	Dimensions	93.1*50.3*55mm		
	Weight	234g		

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.

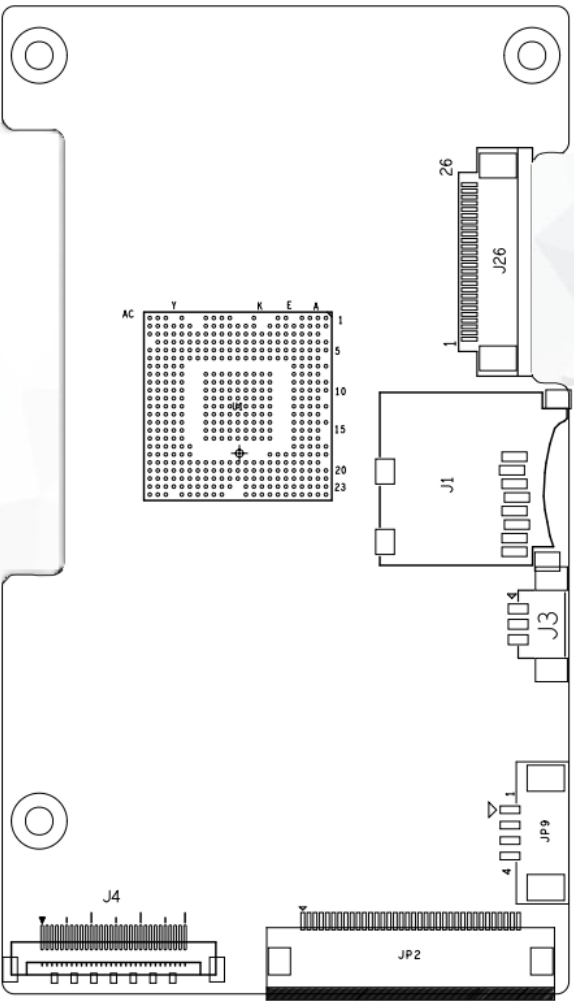
- *Note 1: J1 is a TF card socket;
- *Note 2: J3 is a serial port debugging and printing interface;
- *Note 3: JP9 connector is a USB interface;
- * LVDS and MIPI interfaces are available in two versions. Please use different versions separately.

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	GND
2	NC
3	NC
4	GND
5	NC
6	NC
7	GND
8	NC
9	NC
10	GND
11	NC
12	NC
13	GND
14	CSID3N
15	CSID3P
16	CSID2N
17	CSID2P
18	CSICN
19	CSICP
20	CSID1N
21	CSID1P
22	CSID0N
23	CSID0P
24	UART2_RXD
25	UART2_TXD
26	SYS_RST_N
27	DC_12V
28	DC_12V
29	DC_12V
30	DC_12V



JP9 9pin-1.25mm		
Type	No.	Pin Name
4pinUSB2.0 (1.25mm socket)	1	DC_5V
	2	USB_DP
	3	USB_DM
	4	GND

J3 3pin-1.25mm	
No.	Pin Name
1	RX
2	TX
3	GND