

86X Ultra Long-Range Zoom Camera Module

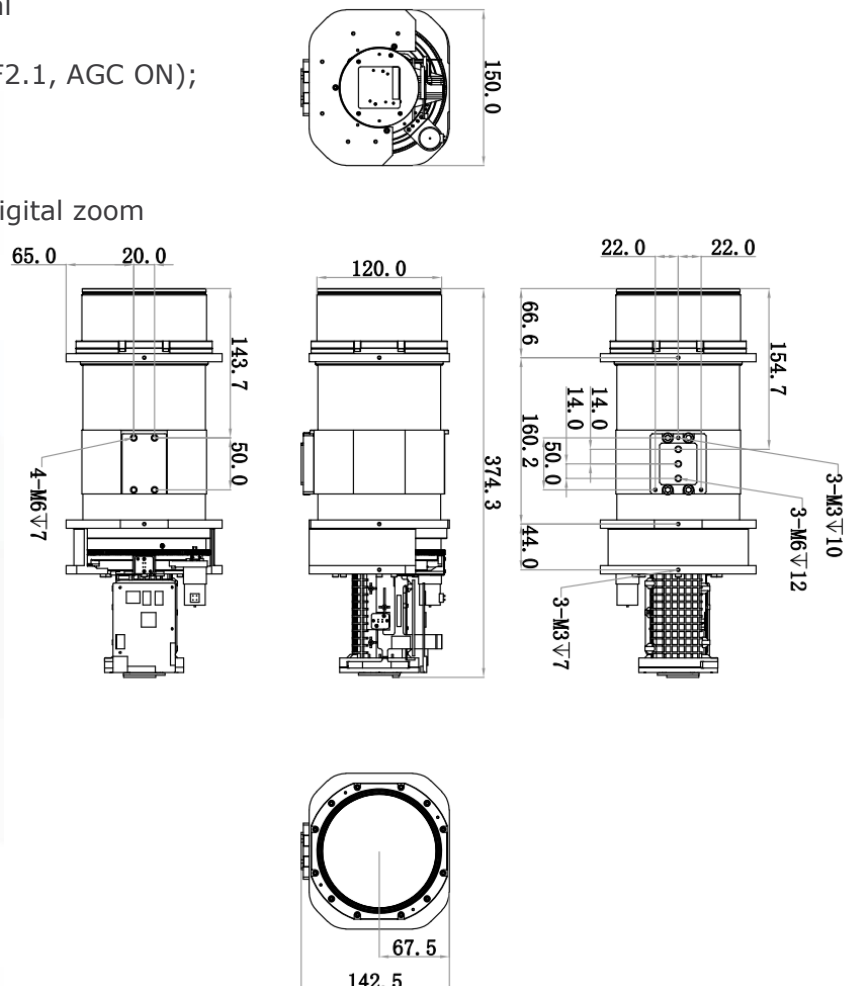
86 X ZOOM	4 MP Resolution	AI AF FOCUS	1/1.8" CMOS	3 D DNR	H.265 HEVC
ULTRA STARLIGHT	ICR D/N	WDR	E STABILITY	OIS STABILITY	T F
LVDS	MIPI				



Features

- 1/1.8" 4MP CMOS
- 2688*1520 @25/30fps, 60fps optional
- Ultra starlight, Color:0.0005 Lux @ (F2.1, AGC ON);
B/W:0.0001Lux @ (F2.1, AGC ON)
- 10~860mm 86X optical zoom, 16X digital zoom
- Optical Defog
- WDR
- Auto Day/Night switch
- Optical image stability optional
- High precision optical axis optional
- MIPI/LVDS Optional
- VISCA, PELCO-D/P
- ONVIF

Dimension



Specifications

Model		UV-ZNH4286	UV-ZNH4286-O	UV-ZNH4286M-O
Camera	Image Sensor	1/1.8" Progressive Scan CMOS		
	Minimum Illumination	Color:0.0005 Lux @ (F1.8, AGC ON); B/W:0.0001Lux @ (F1.8, AGC ON)		
	Shutter	1/25s to 1/100,000s; Support delayed shutter		
	Aperture	PIRIS		
	Day/Night Switch	ICR cut filter		
	Digital Zoom	16x		
Lens	Focal Length	10~860mm, 86x Optical Zoom		
	Aperture Range	F2.1-F11.2		
	Field of View	H:38.40-0.49° (wide-tele) V:22.50-0.28° (wide-tele) D:43.30-0.55° (wide-tele)		
	Minimum Working Distance	100mm-1000mm (wide-tele)		
	Zoom Speed	Approximately 9s(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 x 1520, 1920 x 1080, 1280 x 720); 60Hz: 30fps (2688 x 1520, 1920 x 1080, 1280 x 720)		
	Sub Stream	50Hz: 25fps (704x576 ,640x480 ,352x288) 60Hz: 30fps (704x480 ,640x480 ,352x240)		
	Third Stream	50Hz: 25fps (704x576 ,640x480 ,352x288) 60Hz: 30fps (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/OIS (optional)	EIS/OIS (optional)
	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	N/A	MIPI
General	Working Temperature	-30°C~60°C, humidity≤95%(non-condensing)		
	Power supply	DC12V±10%		
	Power consumption	3.3W (15W MAX)		
	Dimensions	374.3*150*142.5mm		
	Weight	5190g		

Interface Instruction

J4751 is a TF card holder;

JP6 is a 36-pin peripheral interface; interface 0.5mm pitch 36P FFC/FPC connector (1 pin at the triangle figure);

J1 is a gigabit network interface; interface 0.5mm pitch 12P FFC/FPC connector (1 pin at the triangle figure);

J6 is a debug interface; 4pin-1.25mm pitch universal connector (1 pin at the triangle figure);

J5053 connector is a USB3.0 interface; 9pin-1.25mm pitch universal connector (1 pin at the triangle figure);

JP19 connector is an HDMI output interface; 20pin-0.5mm IPEX socket (1 pin at the triangle figure); 1 pin); JP9 connector is the sensor input interface; JP8 is the MIPI output interface; 30pin-0.4mm USL00-30L socket (the triangle figure is 1 pin);

JP6 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

J1 12P FFC/FPC	
No.	Pin Name
1	MX0+
2	MX0-
3	MX1+
4	MX1-
5	GND
6	MX2+
7	MX2-
8	MX3+
9	MX3-
10	GND
11	LINK#
12	ACT#

J6 1.25_4P	
No.	Pin Name
1	3V3
2	RXD
3	TXD
4	GND

J50503 9pin-1.25mm		
Type	No.	Pin Name
USB 2.0	1	DC_5V
	2	USB_DP
	3	USB_DM
	4	GND
USB 3.0	5	USB3_RX-
	6	USB3_RX+
	7	GND
	8	USB3_TX-
	9	USB3_TX+

JP19 HDMI IPEX SOCKET	
No.	Pin Name
1	GND
2	HDMI_TX2P
3	HDMI_TX2N
4	HDMI_TX1P
5	HDMI_TX1N
6	HDMI_TX0P
7	HDMI_TX0N
8	GND
9	HDMI_TXCP
10	HDMI_TXCN
11	GND
12	HDMI_SCL
13	HDMI_SDA
14	HDMI_HOTPLUG
15	UART2_TXD
16	UART2_RXD
17	DC_5V
18	GND
19	DC_12V
20	DC_12V

JP8 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

