

# 2MP 57×ZOOM ULTRA LONG-RANGE LOW LIGHT FULL COLOR AI CAMERA MODULE | VS-SCZ2057VIM-8



 57	 Startlight	 H.265 H E V C		
 ICR D/N	 W D R	 E I S	 Defog	 Alarm
 Tripwire	 Intrusion	 L V D S	 S D I	 T F

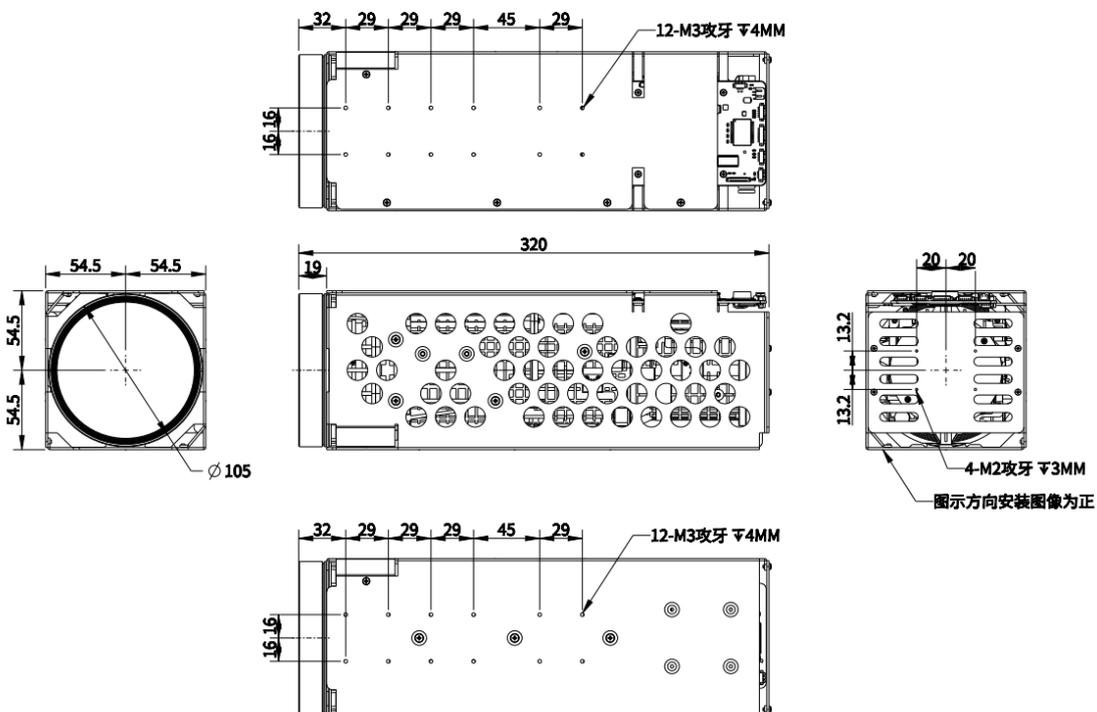
- **AI ISP:** Powerful AI noise reduction enables the camera to obtain pure full-color images even in low illumination environments.
- **Clearer:** Multiple pieces of aspherical optical glass, up to 1300 TV Lines, approximately 30% clearer than comparable products.
- **Fast and accurate autofocus:** Fast and accurate focus with stepper motors drive for multiple applications such as fast tracking.
- **Better environmental adaptability:** Supports Optical-Defog, Optical heat haze Reduction, adaptable to multiple application scenarios.
- **More compact:** The length is only 32 cm, a 30% reduction in length compared to the same specification bullet camera + C-mount telephoto lens solution, reducing the size of the PTZ housing requirement.
- **Lightweight design:** Weighs only 3.1kg, a 50% weight reduction compared to the same specification bullet camera + C-mount telephoto lens solution, reducing the load requirements on the PTZ and reducing the cost of the PTZ and installation costs.
- **Easier to integrate:** All-in-one design, plug and play.
- **Full functions:** PTZ control, Alarm, Audio, OSD, etc.

# Specification

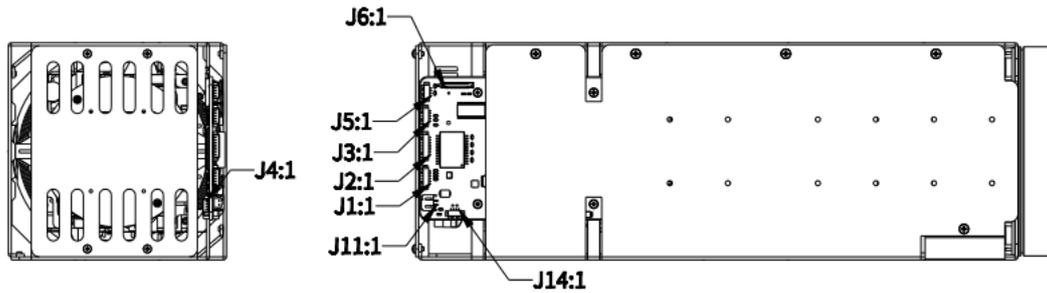
Camera				
Sensor	Type	1/1.8" Sony Progressive Scan CMOS		
	Total Pixels	2.16 M Pixels		
Lens	Focal Length	15 ~ 850mm		
	Zoom	57×		
	Aperture	FNo: 2.8 ~ 8.2		
	HFOV (°)	29.1° ~ 0.5°		
	VFOV (°)	16.7° ~ 0.2°		
	DFOV (°)	33.2° ~ 0.6°		
	Close Focus Distance	1m ~ 10m (Wide ~ Tele)		
	Zoom Speed	7 Sec (Optics, Wide ~ Tele)		
DORI (M) (It is calculated based on the camera sensor specification and the criteria given by EN 62676-4:2015)	Detect	Observe	Recognize	Identify
	8800	3492	1760	880
Video & Audio Network	Compression	H.265/H.264/H.264H/MJPEG		
	Resolution	Main Stream: 1920*1080@25/30fps Sub Stream1: D1@25/30fps; CIF@25/30fps Sub Stream2: 1920*1080@25/30fps; 1280*720@25/30fps; D1@25/30fps LVDS: 1920*1080@25/30fps		
	Video Bit Rate	32kbps ~ 16Mbps		
	Audio Compression	AAC/MP2L2		
	Storage Capabilities	TF card, up to 1Tb		
	Network Protocols	ONVIF, HTTP, RTSP, RTP, TCP, UDP		
	General Events	Motion Detection, Tamper Detection, Scene Changing, Audio Detection, SD Card, Network, Illegal Access		
	IVS	Tripwire, Intrusion, Loitering, etc.		
Upgrade	Support			
Min Illumination	Colour: 0.0005Lux@ (F2.8, AGC ON)			
Intelligent Functions	Person/Car/Fire/Smoke			
Shutter Speed	1/1 ~ 1/30000 Sec			
Noise Reduction	2D / 3D			
Image Settings	Saturation, Brightness, Contrast, Sharpness, Gamma, etc.			
Flip	Support			
Exposure Model	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority			
Exposure Comp	Support			
WDR	Support			
BLC	Support			
HLC	Support			

S/N Ratio	≥ 55dB (AGC Off, Weight ON)
AGC	Support
White Balance (WB)	Auto/Manual/Indoor/Outdoor/ATW/Sodium Lamp/Natural/Street Lamp/One Push
Day/Night	Auto (ICR)/Manual (Colour, B/W)
Digital Zoom	16×
Focus Model	Auto/Manual/Semi-Auto
Defog	Electronic-Defog / Optical-Defog
Image Stabilisation	Electronic Image Stabilisation (EIS)
External Control	2× TTL3.3V, Compatible with VISCA and PELCO protocols
Video Output	Network & LVDS
Baud Rate	9600 (Default)
Operating Conditions	-30°C ~ +60°C; 20% to 80% RH
Storage Conditions	-40°C ~ +70°C; 20% to 95% RH
Weight	3100g
Power Supply	+9 ~ +12V DC
Power Consumption	Static:4W; Max:9.5W
Dimensions (mm)	Length * Width * Height: 320*109*109
Install the positive direction	The main board of the camera is facing down

## Dimensions (mm)



## Interface



## Pin Assignment



NOTE

1. When using LVDS output, the length of the LVDS cable should not exceed 50cm
2. Due to the large power consumption, the LVDS power supply needs to be powered through the 1PIN and 2PIN pins of J3. otherwise the camera will not work.

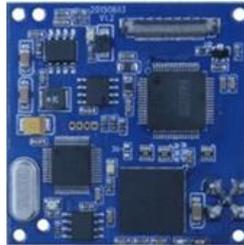
Type	Sequence	PIN Name	Instruction
J11_2PIN Power supply	1	DC_IN	DC power input port, required:DC +9 ~ +12V
	2	GND	Power GND
J1_6PIN Power serial port	1	DC_IN	DC power input port, required:DC +9 ~ +12V
	2	GND	Power GND
	3	RXD1	TTL level(3.3V),Camera serial port receives signal,Using the Pelco protocol
	4	TXD1	TTL level(3.3V),Camera serial port sends signal,Using the Pelco protocol
	5	RXD0	TTL level(3.3V),Camera serial port receives signal,Using the Visca protocol
	6	TXD0	TTL level(3.3V),Camera serial port sends signal,Using the Visca protocol
J2_8PIN Network Interface	1	ETHRX -	Adaptive network port, physical receiving signal (-differential)
	2	ETHRX +	Adaptive network port, physical receiving signal (+differential)
	3	ETHTX -	Adaptive network port, physical receiving signal (-differential)
	4	ETHTX +	Adaptive network port, physical receiving signal (+differential)
	5	Bi-directional D3+	bidirectional data 3+
	6	Bi-directional D3-	bidirectional data 3-
	7	Bi-directional D4+	bidirectional data 4+
	8	Bi-directional D4-	bidirectional data 4-
J3_5PIN Audio port	1	AUDIO_OUT	Audio output signal, support LINE OUT output mode
	2	GND	GND
	3	AUDIO_IN	Audio input signal, support LINE IN output mode
	4	GND	GND
	5	NC	NC
J6_30PIN LVDS 接口	1-8	NC	NC
	9-12	GND	GND
	13-17	DC_IN	DC power input port, required:DC +7V ~ +12V
	18	RXD0	TTL level(3.3V),Camera serial port receives signal,Using the Visca protocol

19	TXD0	TTL level(3.3V),Camera serial port sends signal,Using the Visca protocol
20	GND	GND
21	TXOUT0-	
22	TXOUT0+	
23	TXOUT1-	
24	TXOUT1+	
25	TXOUT2-	
26	TXOUT2+	
27	TXOUTCLK-	
28	TXOUTCLK+	
29	TXOUT3-	
30	TXOUT3+	

## Accessories



TTL to RS485 Alarm Tail Board



LVDS to SDI Adapter Board



LVDS Wire