VS-SCZ4060VIB-8 is an innovative low-light full-color camera module, revolutionizing ultra-long focal starlight night vision! Equipped with a new integrated zoom lens, combined with an advanced 1/1.8-inch large target image sensor and high-performance main control chip, it achieves a 60x ultra-long zoom range of 20~1200mm, effortlessly handling various scenes at different focal lengths. It uses stepper motors for precise lens focusing, ensuring accurate focus throughout the entire focal range, meeting special scene requirements such as drone tracking.

Feature

Excellent hardware brings new heights
Equipped with 1/1.8" large target surface, high sensitivity sensor with F2.92 aperture lens, 60x optical zoom (f: 20~1200mm), combined with a powerful AI master controller chip, it always provides unrivaled image quality regardless of day or night, regardless of distance.

Clear focusing throughout the whole process、
Adopting stepping motor to drive the lens to zoom and focus, the zoom speed is fast and the focus following is precise, whether at 20mm or 1200mm, it can show the delicate image clearly and accurately, which can meet the special application such as drone tracking.

Multi-scene AI depth application
With the powerful AI main control chip, the camera is built-in with deep learning-based human/vehicle/smoke/fire recognition and alarm algorithms, realizing the diversified and in-depth application of intelligent security protection, which is widely used in projects

Better Environmental Adaptability
Unique temperature compensation control technology ensures that 7x24 focusing performance is not affected by temperature fluctuations. Equipped with near-infrared optical fog transmission, multi-axis digital image stabilization, heat wave elimination, etc., it can stably output high-quality video no matter foggy, vibrating and bumpy, or hot and scorching.

High-speed MIPI interface
Utilizing the real-time and high-bandwidth efficiency of the MIPI interface, it can transmit 4MP@60fps lossless video image data in real-time to a dedicated video processing unit, providing real-time and detailed image information for a variety of complex video AI applications.
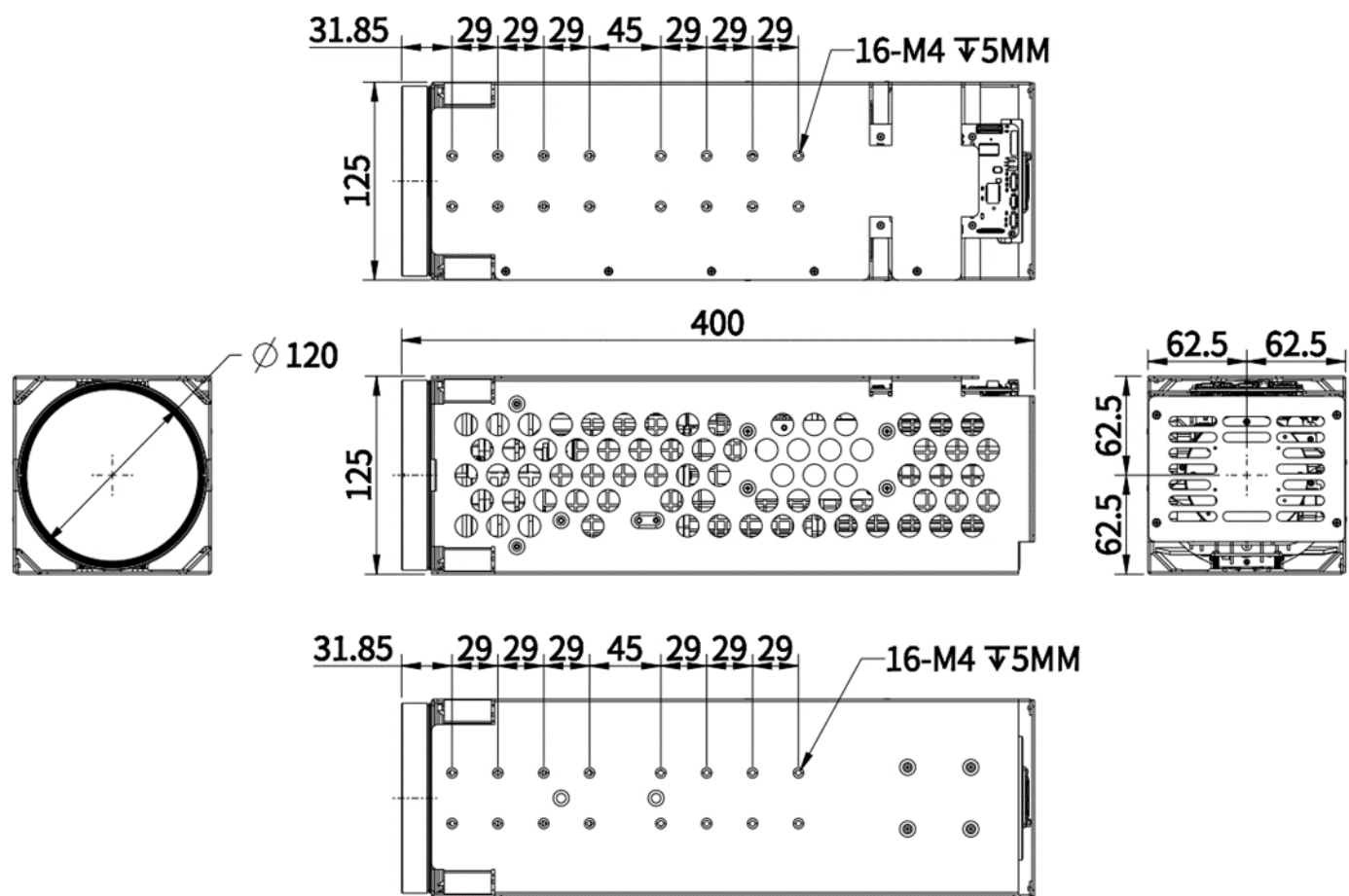
Compact Design
The product measures only 400mm and weighs only 5200g, which greatly reduces the load pressure on the PTZ and at the same time reduces the cost of the PTZ and construction challenges, realizing the perfect combination of high performance and lightweight design.
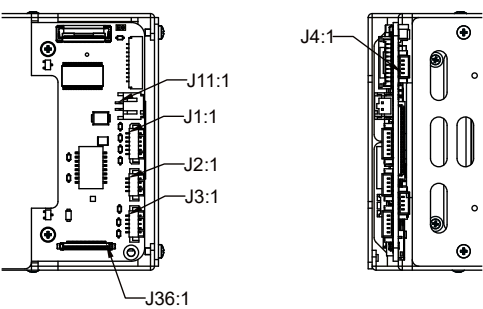
Specifications

Camera				
Sensor	1/1.8" STARVIS progressive scanning CMOS			
Resolution	2688 × 1520, 4MP			
S/N Ratio	≥55dB			
Min. Illumination	Color：0.05 lux (F2.92)； B&W：0.005 lux (F2.92)			
Shutter Speed	1/1 - 1/30000 Sec			
Day & Night	Automatic（ICR）/ Manual			
Focus Modes	Semi-automatic/Automatic/Manual/ One-time focusing			
Focal Length	20 - 1200mm; 60× Optical , 16× Digital			
Aperture	F：2.92 - 11.37			
FoV(H, V, D)	Wide (±5%)	22.06°	12.58°	25.24°
	Tele (±5%)	0.37°	0.21°	0.43°
Close-range	1 - 50m			
Zoom Speed	<10 Sec(Wide-Tele)			
DORI Ratings*	Detection	Observation	Recognition	Identification
	16552m	6568m	3310m	1655m

The DORI standard (based on the IEC EN62676-4:2015 international standard) defines different levels of detail for detection (25PPM), observation (62PPM), recognition (125PPM), and Identification (250PPM). This table is for reference only and performance may vary depending on the environment.

Video	
Video Encoding	H.265/H.264B/H.264M/ H.264H/MJPEG
Main Stream	2688 × 1520 @ 50/60fps; 1920 x 1080 @ 50/60fps ; 1280 x 720 @ 50/60fps
Sub Stream1	704 × 576 @ 50/60fps; 352 × 288 @ 50/60fps
Sub Stream2	1280 x 720 @ 50/60fps ; 704 × 576 @ 50/60fps
MIPI	1920 × 1080 @ 50/60fps ; 1280 x 720 @ 50/60fps ; 704 × 576 @ 50/60fps
Bit Rate	2688 × 1520 @ 50/60fps
Stabilization	CBR/VBR
Defog	Optical/Electric
Heat Haze Reduction	Optical/Electric
Exposure	Support
WDR	Auto/Manual/Aperture Priority/Shutter Priority
BLC	Support
HLC	Support
WB	Support
AGC	Auto/Manual/Indoor/Outdoor/ATW/Sodium Lamp/Natural/Street Lamp/One Push
Noise Reduction	Support
Flip	2D/3D
AF Tracking	Center
ROI Area	Support
Main Stream	Auto/Manual/Indoor/Outdoor/ATW/Sodium Lamp/Natural/Street Lamp/One Push
Image	

Image Format	JPEG, 1-7fps （2688 × 1520）
Audio	
Audio Intercom	Support
Audio Encoding	AAC (8/16kHz), MP2L2(16kHz)
Network	
Network Protocols	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour
API	ONVIF (Profile S, Profile G, Profile T), HTTP API, SDK, GB28181
Cyber Security	User authentication (ID and password), IP/MAC address filtering, HTTPS encryption, IEEE 802.1x network access control
Web Browser	IE, EDGE, Firefox, Chrome
Web Languages	English/Chinese (modifiable)
OSD Overlay	Channel Title, Time Title, Preset, Temperature, Coordinates, Zoom, Test overlay, Picture overlay, Crosshair, OSD warning
User	Up to 20 users, 2 level: Administrator, User
Firmware Upgrade	Support
Storage	MicroSD/SDHC/SDXC card (Up to 1Tb) edge storage, FTP, NAS
Analytics	
Perimeter Protection	Line crossing, Fence crossing, Intrusion
Target Classification	Human/vehicle
Behavioral Detection	Object left in area, Object removal, Fast moving, Gathering, Loitering, Parking
Events Detection	Motion, Masking, Scene change, Audio detection, SD card error, Network disconnection, IP conflict, Illegal network access
Interface	
Ethernet	10M/100M
Audio Input	1-ch
Audio Output	1-ch
External Control	1-ch TTL (3.3V) compatible SONY VISCA Protocols 1-ch TTL (3.3V) compatible PELCO Protocols
Video Output	Network&MIPI 2 ways out
USB Port	support
Hard Reset	support
General	
Power	DC:9V - 12V
Consumption	static: 5W, Max: 10W
Working Scenario	-30℃ - +60℃; 20%-80%RH
Store Scenario	-40℃ - +70℃; 20%-95%RH
Wight	About 5KG
Dimensions	400×125×125 (L×W×H)

Dimensions

Pin Assignment

⚠️ **注意**

Extremely thin coaxial cables up to 50cm in length when using MIPI outputs

Type	Pin No.	PIN Name	Remark
J1 (A1251-06A 1.25MM)	1	+12V	DC power input
	2	GND	Power GND
	3	UART2_RX	TTL level(3.3V),Camera serial port receives, Pelco protocol

	4	UART2_TX	TTL level(3.3V),Camera serial port sends, Pelco protocol
	5	UART1_RX	TTL level(3.3V),Camera serial port receives signal, Visca protocol
	6	UART1_TX	TTL level(3.3V),Camera serial port sends signal, Visca protocol
J2 （A1251-04A 1.25MM）	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)
J3 （A1251-05A 1.25MM）	1	AUDIO_OUT	Audio output signal, support LINE OUT output mode
	2	GND_A	GND
	3	AUDIO_IN	Audio input signal, support LINE IN output mode
	4	GND_C	GND of CVBS
	5	CVBS	CVBS video
J4 （A1251-04A 1.25MM）	1	+5V	
	2	USB1_DP	Differential data+
	3	USB1_DM	Differential data-
	4	GND	
J11 （A2001AWR-02 2.0MM）	1	GND	
	2	+12V	DC power input
J36 (HK-IP30-001 0.4MM)	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	CSI_D3N	Differential data pair 3-
	15	CSI_D3P	Differential Data Pair 3+
	16	CSI_D2N	Differential Data Pair 2-
	17	CSI_D2P	Differential Data Pair 2+
	18	CSI_DKN	Differential Data to Clock Signal-
	19	CSI_DKP	Differential Data to Clock Signal+
	20	CSI_D1N	Differential data to 1-
	21	CSI_D1P	Differential data to 1+
	22	CSI_D0N	Differential data to 0-
	23	CSI_D0P	Differential data to 0+
	24	UART1_RX	TTL level (3.3V), the serial port to receive signals, Visca protocol
	25	UART1_TX	TTL level (3.3V), the serial port sends signals, Visca protocol
	26	NC	
	27	+12V	DC Power Input
	28	+12V	DC Power Input
	29	+12V	DC Power Input

	30	+12V	DC Power Input

Optional Accessories

Appearance	Description
	485 Alarm Tailboard
	MIPI Input to SDI&CVBS Output Board
	30P LVDS Cable （USL30 15cm）

Ordering Information

Model No.	Description
VS-SCZ4060VIB-8	4MP 60x Super Telephoto Starlight AI Dual Outputs Camera Module

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For more info, visit www.viewsheen.com

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