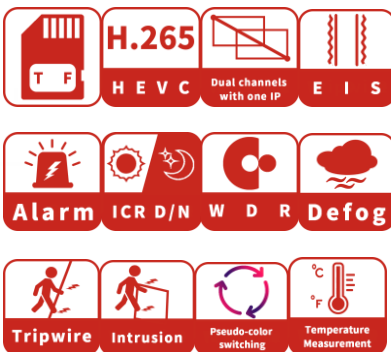


12MP 3.5×Zoom + 640 Thermometry Bi-Spectrum Camera Module | VS-SCZ8003K-RT6-25



Visible:

- 1/2.3" 12MP High sensitivity COMS sensor.
- 3.5 × Optical zoom, 3.85mm ~ 13.4mm, no distortion, auto focus, fast and accurate focusing.
- Max. Resolution: 3840x 2160@ 25fps.

LWIR:

- Vox Image sensor, Pixel Pitch 12μm, 640(H) × 512(V).
- Athermalized lens.
- Supports a wide range of thermometry rules with an accuracy of $\pm 5^{\circ}\text{C}$ / $\pm 5\%$.
- Supports global thermometry and generates heat maps.
- Supports thermometric alarm.
- Supports Various pseudo-colour adjustments, image detail enhancement system functions.

Integrated Features:

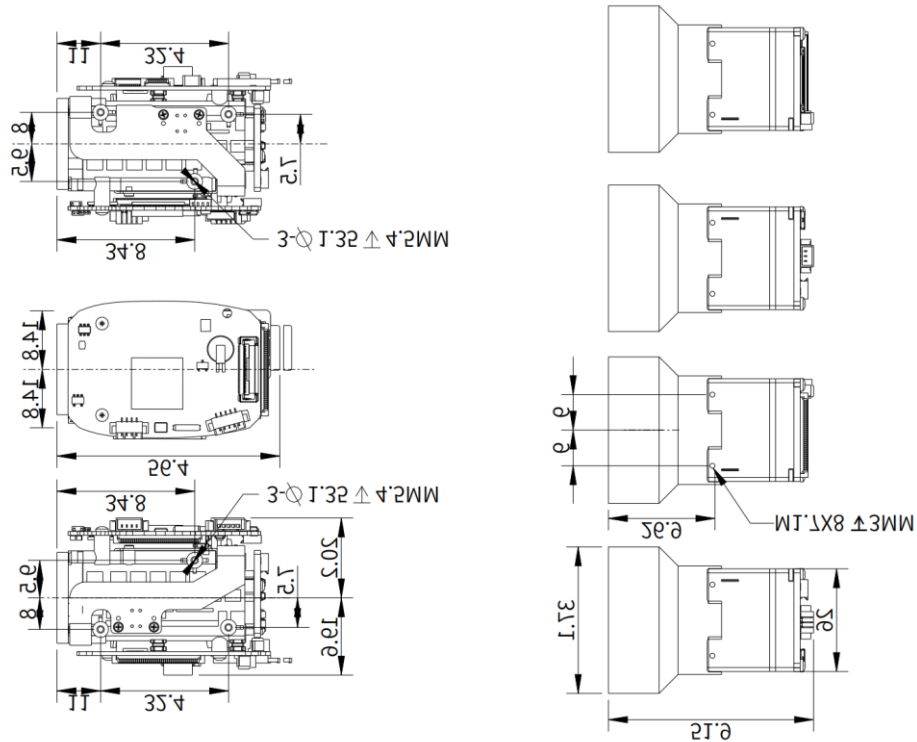
- Network output, the LWIR and Visible camera have the same web interface and have analytics.
- Supports ONVIF, Compatible with VMS and network devices from leading manufacturers.
- Full functions: PTZ control, Alarm, Audio, OSD.

Specification

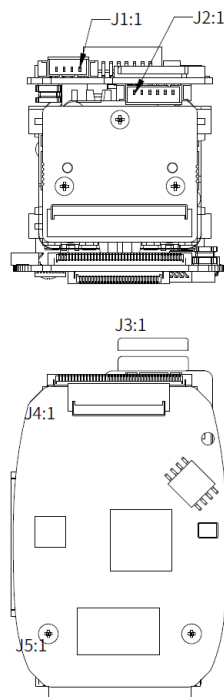
Visible		
Sensor	Type	1/2.3" Sony Exmor CMOS Sensor.
	Effective Pixels	12.93M pixels
Lens	Focal Length	3.85 ~ 13.4mm
	Optical Zoom	3.5×
	FOV	82° ~ 25°
	Close Focus Distance	1m ~ 2m (Wide ~ Tele)
	Zoom Speed	2.5 Sec (Optics, Wide ~ Tele)
Shutter Speed		1/3 ~ 1/30000 Sec
Noise Reduction		2D / 3D
Image Settings		Saturation, Brightness, Contrast, Sharpness, Gamma, etc.
Flip		Support
Exposure Model		Auto/Manual/Aperture Priority/Shutter Priority
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
Digital Zoom		16×
Focus Model		Auto/Manual/Semi-Auto
LWIR		
Detector		Uncooled VOx microbolometer
Pixel Pitch		12μm
Array Size		640(H)×512(V)
Spectral Response		8~14μm
NETD		≤50mK
Lens		25mm, F1.0, Athermalized
FOV (H×V)		17°*14°
Thermometry Range		Low temperature mode: -20°C ~ 150°C (-4°F ~ 302°F) High temperature mode: 0°C ~ 550°C (32°F ~ 1022 °F)
Thermometry Accuracy		±5°C / ±5%
Thermometry Methods		1. Support real-time point temperature measurement function. 2. each pre-set point can be set: point temperature measurement: 12; area temperature measurement: 12; line temperature measurement: 12; support for each pre-set point (point + area + line) up to 12 simultaneous temperature measurement, area support for circular, square and irregular polygon (not less than 7 bending points).

	<p>3. Support temperature alarm function.</p> <p>4. Support isothermal line, colour bar display function, support temperature correction function.</p> <p>5. The unit of temperature measurement Fahrenheit, Celsius can be set.</p> <p>6. Support real-time temperature analysis, historical temperature information query function.</p>
Global Thermometry	Support Heat Map
Thermometric alarm	Support
Pseudo-colour	Support white heat, black heat, fusion, rainbow, etc. 11 kinds of pseudo-colour adjustable
Video & Audio Network	
Video Compression	H.265/H.264/H.264H/MJPEG
Resolution	Channel 1: Visible Main Stream: 3840*2160@25fps Channel 2: LWIR Main Stream: 1280*1024@25fps
Video Bit Rate	32kbps ~ 16Mbps
Audio Compression	AAC / MP2L2
Storage Capabilities	TF card, up to 256GB
Network Protocols	ONVIF, HTTP, RTSP, RTP, TCP, UDP
Video Output	Network
Audio IN/OUT	1-Ch In, 1-Ch Out
External Control	TTL3.3V, Compatible with VISCA and PELCO protocols
Power	DC +9 ~ +12V
Power Consumption	Avg: 4.5W, Max: 8W
Operating Conditions	-30°C~+60°C; 20% to 80% RH
Storage Conditions	-40°C~+70°C; 20% to 95% RH
Dimensions (Length * Width * Height: mm)	LWIR: 51.9*37.1*37.1; Visible: 55*30*30
Weight	LWIR: 70g; Visible: 55g

Dimensions (mm)



Interface



J1 (A1251-04A 1.25MM)	
1	ETHRX-
2	ETHRX+
3	ETHTX-
4	ETHTX+

J2 (A1251-06A 1.25MM)	
1	+12V
2	GND
3	RXD1(TTL3.3V,Pelco)
4	TXD1(TTL3.3V,Pelco)
5	RXD0(TTL3.3V,Visca)
6	TXD0(TTL3.3V,Visca)

J4 (A1251-05A 1.25MM)	
1	AUDIO_OUT
2	GND
3	AUDIO_IN
4	GND
5	NC