

SG-VTM06(03)U(C,M)2-x**12μm 640×512(384×288) USB (CBVS/Type-C/MIPI) Output Compact Size Thermal Module**

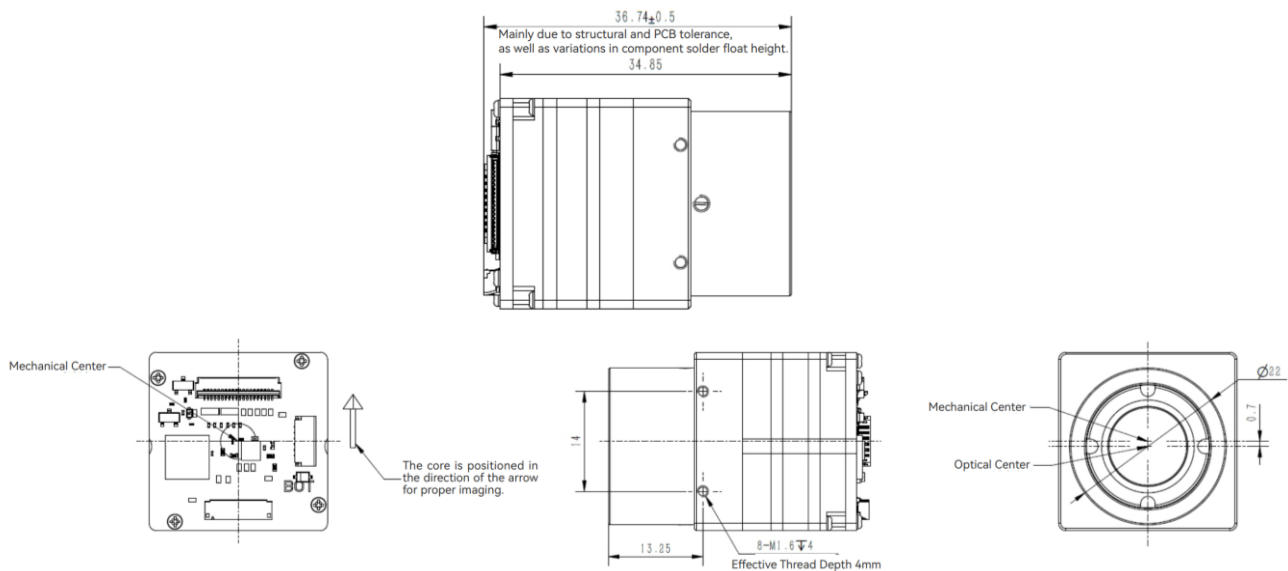
- 12μm 640×512(384×288) high sensitivity Vox sensor
- 9.1/13/19/25/35mm (9.1/13/25/35mm) athermalized lens
- Support up to 4 color palettes
- Support NUC, DFNR, DDE Image functions
- Support UART serial communication
- USB Output by default, CVBS/Type-C/MIPI optional
- Compact size: 25mm*25mm*Xmm
- Low consumption: ≤1.2W

Specification

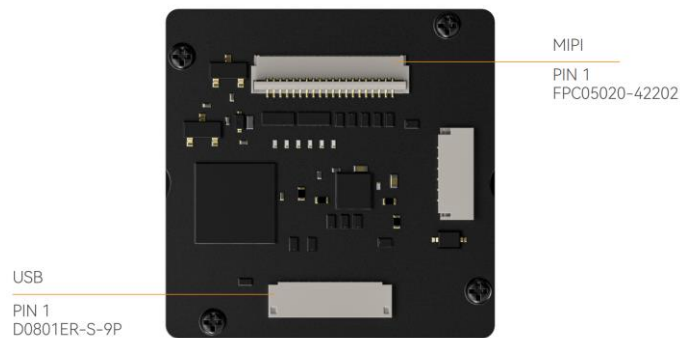
Model Number	SG-VTM06U(C,M)2-x		SG-VTM03U(C,M)2-x	
Thermal Module				
Image Sensor	VOx Uncooled Focal Plane Arrays			
Max. Resolution	640×512			
Frame Rate	≤50Hz			
Pixel Interval	12μm			
Response Waveband	8μm to 14μm			
NETD	≤ 50mK (@ 300K), F# = 1.0			
Lens (Focal Length)	9.1/13/19/25/35mm		9.1/13/25/35mm	
F Number	F1.0		F1.0	
Field of View(H×V)	45.8°×37.3°/32.9°×26.6°/22.6°×18.2°/ 17.3°×13.8°/12.5°×10.0°		28.7°×21.7°/20.1°×15.1°/ 10.5°×7.9°/7.5°×5.6°	
Image Display				
Digital Zoom	1~8x			
Image Correction	Shutter Correction			
Brightness & Contrast	Auto			
Color Palettes	White Heat, Black Heat, Iron Red, Rainbow			
Image Process	Non-uniformity Correction, Digital Filtering for noise reduction, Digital Detail Enhancement			
Video				
Video Format	USB output by default, CVBS/Type-C/MIPI for optional			
Hardware Interface	9PIN USB or CVBS, 20PIN MIPI			
General				
Power	DC 4.5V~18V (Overvoltage, Undervoltage, Reverse Input protection)			
Power Consumption	≤1.2W			
Working Temperature	-20°C~55°C			
Storage Temperature	-45°C~60°C			

Humidity	5~95%, non-condensing
Vibration-resistant	6.06g, Random vibration, all axial directions
Shock-resistant	Back peak sawtooth, 200g/4ms, 3-axis 6-way
Dimension (mm)	38.14*25*25mm (39.55*25*25mm for 9.1mm lens)
Weight	≤42g ± 3g (≤38g ± 3g for 9.1mm lens)

Dimension



PIN Definition



MIPI, USB, CVBS expansion board

Type	PIN Number	PIN Name	Description
USB & CVBS D0801WR-S-9P connector	1	+5V	Power Input (DC5V ±10%)
	2	USB_DP	USB 2.0 Data Positive
	3	USB_DM	USB 2.0 Data Negative
	4	GND	Ground
	5	UART1_TX	TTL level 1.8V
	6	UART1_RX	TTL level 1.8V
	7	NC	NC
	8	CVBS	CVBS Video Signal
	9	GND	Ground

Type	PIN Number	PIN Name	Description
MIPI FPC05020- 42202 connector	1	CVBS	CVBS Video Signal
	2	GND	Ground
	3	I2C_SDA	I2C Slave Mode (3.3V)
	4	I2C_CLK	I2C Slave Mode (3.3V)
	5	GND	Ground
	6	NC	NC
	7	NC	NC
	8	UART_TX	TTL level 1.8V
	9	UART_RX	TTL level 1.8V
	10	GND	Ground
	11	MIPI_CLKN	MIPI Clock
	12	MIPI_CLKP	MIPI Clock
	13	GND	Ground
	14	MIPI_D1N	MIPI Data Signal
	15	MIPI_D1P	MIPI Data Signal
	16	MIPI_D0N	MIPI Data Signal
	17	MIPI_D0P	MIPI Data Signal
	18	GND	Ground
	19,20	+5V	Power Input

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*Design and specifications are subject to change without prior notification.
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