

SG-HTM03U2-T9(15)**12μm 384×288 USB Output Compact Size Thermal Module**

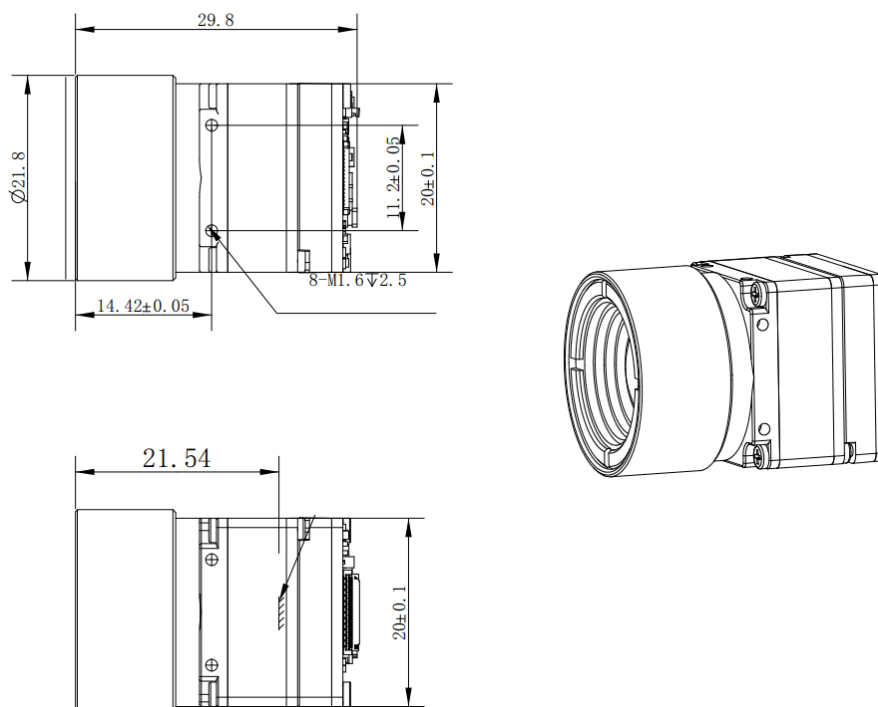
- 12μm 384×288 high sensitivity Vox sensor
- 9.7mm / 15.4mm athermalized lens
- Support up to 15 color palettes
- Temperature range: -20°C~+150°C & 100°C~550°C
- Max ($\pm 2^{\circ}\text{C}$, $\pm 2\%$) at ambient temperature 25°C and object temperature above 0°C
- Compact size and low consumption

Specification

Model Number	SG-HTM03U2-T9	SG-HTM03U2-T15
Thermal Module		
Image Sensor	VOx Uncooled Focal Plane Arrays	
Max. Resolution	384×288	
Frame Rate	Adjustable, 6Hz to 50Hz	
Pixel Interval	12μm	
Response Waveband	8μm to 14μm	
NETD	≤ 40mK (@ 25°C), F# = 1.0	
Lens (Focal Length)	9.7mm	15.4mm
F Number	F1.0	F1.0
IFOV	1.2mrad	0.8mrad
Field of View(H×V)	26.46°×19.81°	17°×12.8°
Min. Focusing Distance	2m	5m
Temperature Measurement		
Temperature Range	-20°C~+150°C & 100°C~550°C	
Temperature Accuracy	Max ($\pm 2^{\circ}\text{C}$, $\pm 2\%$) at ambient temperature 25°C and object temperature above 0°C	
Temperature Distance (based on 0.65×0.65m)	10m (Farthest)	15m (Farthest)
Thermography Rule	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line)	
Data Output	16bit Temperature Data	
Image Display		
Contrast Adjustment	Yes	
Brightness Adjustment	Yes	
Palettes	15 Palettes of Color Adjustable, Default White Hot	

FFC (Flat Field Correction) Mode	Auto, Manual, External Correction	
DDE	Yes	
General		
Hardware Interface	USB2.0 FPC	
Power	DC 5V ± 5%	
Power Consumption	≤0.55W	
Vibration & Shock	Vibration: sinusoidal vibration, 20 m/s ² , 3-axis Shock: Half sine wave, 30 g/11 ms, 3-axis 6-way	
Dimension	29.8mm*20mm*20mm	29.8mm*20mm*20mm
Weight	≤22g	≤22g
Working Temperature	-40°C~70°C	

Dimension



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

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