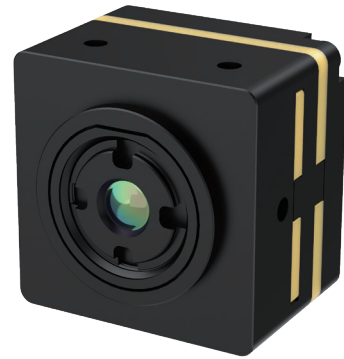




Turing L256

Uncooled Infrared Module (Temperature Measurement)

Turing L256 uncooled infrared module is equipped with an advanced 256×192 wafer detector with a dimension of $18 \times 18\text{mm}$. Thanks to its integrated design, it redefines standards in weight, dimension and power consumption (SWaP³) in the OEM module industry. As the best choice for low-cost solutions, it can be used in many fields such as industry, power, security, and machine vision.



Product Highlights

Compatibility Design

- Its resolution is 256×192 and dimension is $18\text{mm} \times 18\text{mm}$, which are consistent with those of the L384 mechanical interface for compatibility design.



Excellent Performance

- $-20^{\circ}\text{C} \sim +550^{\circ}\text{C}$ wide measurement range to satisfy application requirements in different scenarios.



Multiple Selections

- The FOV is $20^{\circ} \sim 90^{\circ}$ and the extension supports DVP/USB.



Specifications

Model	Turing L256 Temperature Measurement
Performance Characteristics	
Detector Type	Uncooled VOx Infrared Detector
Resolution	256×192
Pixel Pitch	12μm
Frame Rate	25Hz
Spectral Band	8~14μm
NETD	≤50mK@25°C
Image Adjustment	
Brightness/Contrast Adjustment	Manual/Automatic
Polarity	Black-hot/White-hot
Palette	It supports multiple types.
Reticle	Display/Blank/Move
Image Processing	Digital filtering noise reduction/Digital detail enhancement
Mirroring	Horizontal/Vertical/Diagonal
Power Supply	
Power Supply Range	3.8~5.2V DC/1.8V/3.3V
Power Consumption (Typical, @25°C, Without Extension)	≤0.3W
Interface	
Digital Video	CDS3
Serial Communication Interface	UART
Extension Components	USB2.0
Temperature Measurement Characteristics	
Measurement Range	For temperature measurement series, -20°C~+550°C
Measurement Accuracy	For temperature measurement series, ±3°C or ±3% of reading at ambient temperature of -20°C~+60°C
Physical Characteristics	
Dimensions (Without Lens and Extension Components)	18×18mm
Weight (3.2mm, Without Extension Components)	About 8.7g
Lens	2mm, 3.2mm, 7mm, 10mm, and 13mm
Environment Adaptability	
Operating Temperature	-20°C~60°C
Storage Temperature	-45°C~+85°C
Humidity	5~95%, non-condensing
Product Certification	RoHS2.0

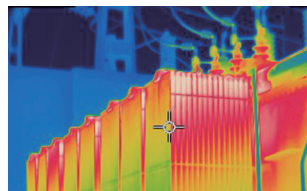
Applications



UAV



Security Monitoring



Industrial Temperature Measurement



Machine Vision

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The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice. Sample No.: O2024-Turing L256-2P001