



Turing L1280

Uncooled Infrared Module

Turing L1280 uncooled infrared module is a new generation of module components designed for expert users. The use of self-developed detectors has taken an important step forward in miniaturization and lightweighting, making us take a lead. With the advantage of large array imaging of 1280, the size is only 29mm×29mm, and the weight is only 24.5g. With a professional development team, it is the best choice for meeting the lightweight development needs.



Product Highlights

Industry Solutions of Minimum 1,280

- Equipped with a self-developed 12μm VOx uncooled infrared detector. Resolution is 1,280×1,024, size is 29×29, and weight is 24.5g.



Excellent Performance

- The mega-pixel resolution, combined with high-quality image algorithms, highlights details.
- Convenient for users to find targets and monitor details.



Rich Selection

- With multiple lenses optional, it can flexibly adapt to multiple scenarios.
- Dedicated support to help users choose the right lens for themselves, efficient and convenient.



Specifications

Model	Turing L1280 Imaging		Turing L1280 Temperature Measurement	
Performance Characteristics				
Detector Type	Uncooled VOx infrared detector			
Resolution	1280×1024			
Pixel Pitch	12μm			
Frame Rate	30Hz			
Spectral Band	8~14μm			
NETD	≤50mK at 25°C,F#1.0			
Image Adjustment				
Brightness/Contrast Adjustment	Manual/Automatic/Linear			
Polarity	Black-hot/White-hot			
Palette	Support			
Image Processing	TEC-less temperature control algorithm, digital filtering noise reduction, and digital detail enhancement			
Mirror Image	Vertical/Horizontal/Diagonal			
Power Supply				
Power Supply Range	4.0~5.5VDC			
	4.1~5.5V DC supported by user extension components			
Power Consumption	0.9W (Typical, @25°C, without extension)		1W (Typical, @25°C, without extension)	
Interface				
Digital Video	BT1120		CDS2	
	14Bit or 8Bit LVCMOS/MIPI			
Control Interface	UART (3.3V)			
Extension Components	USB3.0			
Temperature Measurement Characteristics				
Temperature Measurement Range	/		Temperature measurement series: -20°C~+150°C, 100°C~+650°C	
Measurement Accuracy	/		Temperature measurement series: ±2°C or ±2% of reading (The greater shall prevail) @Ambient temperature of 15°C~35°C	
Measurement Tool	/		Secondary analysis of points, lines, and areas	
Physical Characteristics				
Dimensions (Without Lens and Extension Components)	29mm×29 mm×18.9mm			
Weight (Without Lens and Extension Components)	24.5g			
Lens	10mm,35mm,50mm,75mm		10mm,35mm,50mm	
Environment Adaptability				
Operating Temperature	-40°C~+70°C		-20°C~+60°C measurement	
Storage Temperature	-45°C~+85°C			
Humidity	5~95%, non-condensing			
Product Certification	RoHS2.0			

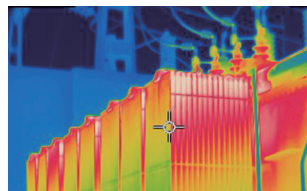
Applications



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 L1280-2P001