

# Turing L256

## Uncooled Infrared Module (Imaging)

Turing L256 uncooled infrared module is equipped with an advanced 256×192 wafer detector with a dimension of 18×18mm. Thanks to its integrated design, it redefines standards in weight, dimension and power consumption (SWaP<sup>3</sup>) in the OEM module industry, providing excellent miniaturized solutions for consumer products.



### Product Highlights

#### Compatibility Design

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



#### Excellent Performance

- 50Hz imaging to provide a smooth image experience.



#### Multiple Selections

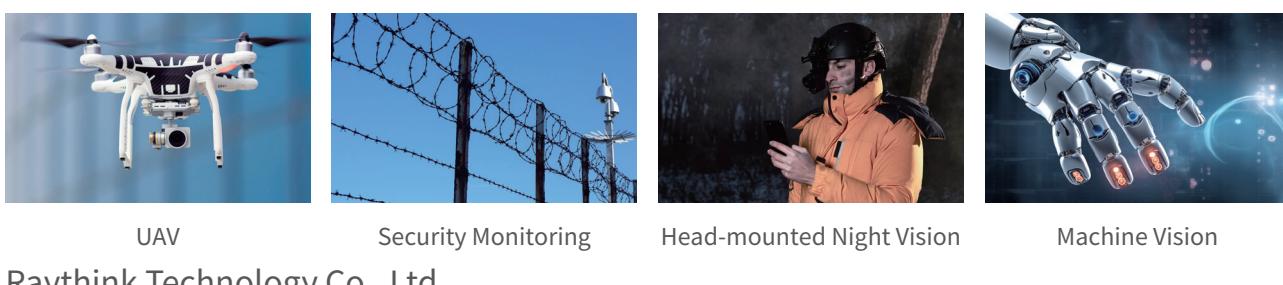
- The FOV is 20°~90° and the extension supports multiple interfaces such as DVP/USB/Analog video.



## Specifications

Model	Turing L256 Imaging
Performance Characteristics	
Detector Type	Uncooled VOx Infrared Detector
Resolution	256×192
Pixel Pitch	12μm
Frame Rate	50Hz
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)	≤0.35W
Interface	
Digital Video	LVCMOS/BT.1120
Serial Communication Interface	UART
Extension Components	USB 2.0/Analog video
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

Head-mounted Night Vision

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