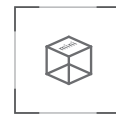
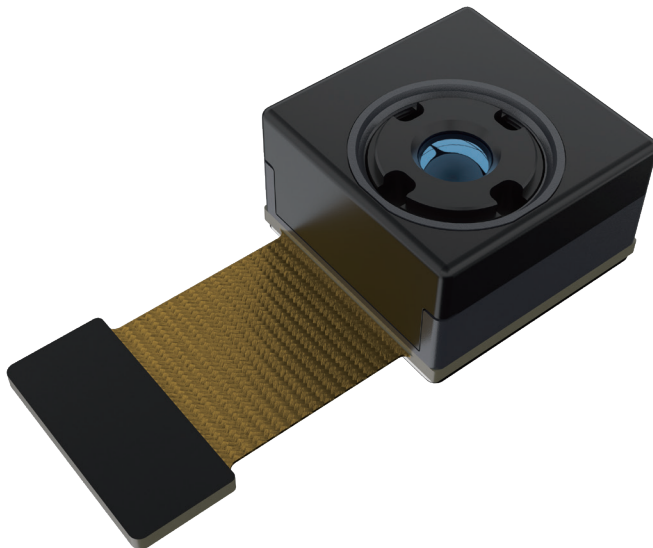


TC2-C

Uncooled Infrared Thermal Module

TC2-C is a long-wave infrared thermal imaging module, built with the self-developed LY 300 ASIC, which converts thermal radiation into high-quality images and precise temperature data. The ASIC ensures excellent imaging performance with powerful thermal data processing capabilities while maintaining low power consumption. It features excellent performance, low power consumption, and compact size. And this product applies to multiple scenarios, e.g. handheld devices, security inspection, fire rescue, healthcare, driving assistance, etc.



Small Size



High-Quality
Imaging



Simple
Integration



Versatile Scene
Coverage

Specifications

Product Model	TC2-C
Specifications	
Detector Type	Vanadium oxide uncooled infrared focal plane detector
Spectral Range	8-14μm
Pixel Pitch	12μm
NETD	≤40mK@25°C,F#1.0,25Hz
Detector Frame Rate	25Hz
Image Adjustment	
Brightness/Contrast Adjustment	0-100 levels selectable
Polarity	White hot/black hot
Pseudocolor	Supported
Image Processing	Self-developed second generation ISP Chip
Nonuniformity Correction	Automatic shutter correction/Shutterless
Image Mirroring	Up/down, left/right, diagonal
Focusing Method	Athermalized prime lens
Temperature Measurement	
Range	-20°C ~ 150°C (high image quality), 50°C ~ 550°C (wide range)
Temperature Measurement Accuracy (Typical value)	±2°C or ±2% (whichever is greater)
Temperature Measurement Tools	Analysis tools: spot, line, area
Information Row	Information bar: displays temperature and other measurement data
Electrical Parameters	
Power Supply Voltage (Typical)	5V(analog), 3.3V, 1.8V
Typical Power Consumption @25°C	0.28W
Digital Video	DVP/VOSPI/MIPI/USB
Serial Communication Interface	I2C/USB/UART
Physical Characteristics (Excluding lens and flange)	
Dimensions (W×L×H) mm	13mm×13mm×9.05mm
Weight(g)	≤2.6g (3.2mm)
Optional Lenses	
Lens (mm)	2mm/3.2mm/4.3mm/7mm
Environmental Adaptability	
Operating Case Temperature	Imaging: -40°C ~+80°C, temperature measurement: -10°C ~+ 70°C
Storage Case Temperature	-45°C~+85°C
Humidity	5%~95%, non-condensing
Vibration	6.06g, random vibration, all axes
Shock	80g, 11ms, half-sine waveform, 3 axes

Applications



Smart Life



Handheld Terminal



Security Inspection



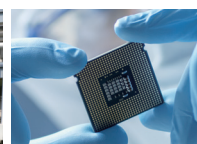
Fire Safety



Medical Health



Temperature Measurement Tool



Built-in or Plug-in Devices

Company Profile

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Official Website



LinkedIn Official Account