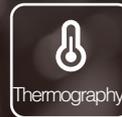




COIN612

Uncooled Thermal Module

Outstanding Quality
Higher Cost Performance



Description

Utilizing self-developed wafer-level-packaging detector, the COIN612 uncooled thermal module is simplified in size and weight but does not compromise in performance. Equipped with a variety of industry-standard interfaces and a full set of optical lenses, it is easy for OEM customers who pursue strict requirements on size, weight and power consumption to start secondary development.

Optimal SWaP

- Mini size: 25.4mm×25.4mm×14.1mm
- Light Weight: as low as 11.5g
- Power consumption: as low as 0.8W

Outstanding Image Quality

- New generation image processing algorithm: NUC/3DNR/DNS/DRC/EE
- Temperature measurement range: -20°C~150°C, 0~550°C (support expansion & customization)

Fast Integration

- USB2.0/DVP/LVDS image output interfaces, RAW/YUV image data output, serial port control
- Provide ARM/Windows/Linux SDK; achieve full screen temperature measurement

Model	COIN612/R
IR Detector Performance	
Sensitive Material	Vanadium Oxide
Resolution	640×512
Pixel Size	12μm
Spectral Range	8μm ~14μm
Typical NETD	≤40mK
Image Processing	
Frame Rate	25Hz/30Hz
Start-up Time	5s
Analog Video	PAL/NTSC
Digital Video	RAW /YUV /BT656
Image Algorithm	NUC/3DNR/DNS/DRC/EE
Image Display	Black Hot/White Hot/Pseudo Color
PC Software	
ICC Software	Module Control & Video Display
Electrical Specifications	
Standard External Interface	50Pin_HRS: DF40C-50DP-0.4V(51), (HRS, Male)
USB Expansion Board	Type-C
Communication Interface	TTL-232/USB2.0
Digital Video Interface	CMOS8/CMOS16/LVDS/USB2.0
Supply Voltage	4~5.5V
Typical Power Consumption	0.8W
Temperature Measurement	
Operating Temperature Range	-10°C~+50°C
Temperature Measurement Range	-20°C~150°C, 0°C~550°C (Support Expansion & Customization)
Temperature Measurement Accuracy	Greater of ±3°C or ±3%
Regional Temperature Measurement	Support Maximum, Minimum and Average Value of the Output Regional Temperature
SDK	Windows/Linux/ARM; Achieve Video Stream Analysis and Conversion from Gray to Temperature
Physical Characteristics	
Size (mm)	25.4×25.4×14.1 (Without Lens)
Weight	11.5g (Without Lens)
Environmental Adaptability	
Operating Temperature	-40°C~+70°C
Storage Temperature	-45°C~+85°C
Humidity	5%~95%, non-condensing
Vibration	5.35grms, 3-axis
Shock	Half-sine Wave, 40g/11ms, 3-axis 6-direction
Certificate	ROHS2.0/REACH
Optics	
Optional Lens	Fixed Focus Athermal: 4.9mm/9.1mm/13mm/19mm/25mm/35mm/50mm/70mm
Protection Level	IP67 Rating (Front Lens)