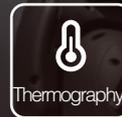


COIN417^{G2} Uncooled Thermal Module

Latest New Upgraded
Thermal Imaging Solution



Description

COIN417^{G2} uncooled thermal module adopts the latest wafer-level-package infrared detector, industry-leading image process algorithm and advanced TEC-less technology. With its image performance greatly optimized, the COIN417^{G2} infrared core presents sharper image quality. Various industry-standard interfaces are available for customers to start secondary development and rapid integration.

Higher Efficiency

- With start-up time at 5s and power consumption as low as 0.75W

Outstanding Performance

- Powerful image process algorithm: NUC/3DNR/DNS/DRC/EE
- With range of -20°C~150°C, 0~550°C (support customization & expansion)

Faster Integration

- Support USB2.0/DVP/LVDS image output interfaces, RAW/YUV image data output, serial port control

Model	COIN417 ^{G2} /R
IR Detector Performance	
Sensitive Material	Vanadium Oxide
Resolution	384×288
Pixel Size	17μm
Spectral Range	8μm ~14μm
Typical NETD	≤40mK
Image Processing	
Frame Rate	50Hz/30Hz/25Hz
Start-up Time	5s
Analog Video	PAL/NTSC
Digital Video	YUV/BT.656/LVDS/USB2.0
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	0.75W
Temperature Measurement	
Operating Temperature Range	-10°C~+50°C
Temperature Measurement Range	-20°C~+150°C, 0°C~+550°C; Support Customization and Expansion
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)	25.4×25.4×16 (Without Lens)
Weight	12.8g (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
Protection Level	IP67 Rating (Front Lens)