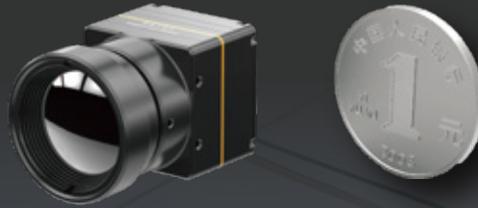
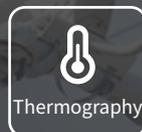


# COIN417<sup>G2</sup> Uncooled Thermal Module

Latest New Upgraded Thermal Imaging Solution



COIN417<sup>G2</sup> uncooled thermal module adopts the latest wafer-level-package infrared detector, industry-leading image process algorithm and advanced TECless technology. With its image performance greatly optimized, the COIN417G2 infrared core could present sharper and clearer image quality. Various industry standard interfaces are available for customers to conduct secondary development and rapid integration.



## ✓ “Excellent Image Performance”

- Powerful image process algorithm: NUC/3DNR/DNS/DRC/EE
- Present sharper and clearer image quality

## ✓ “Temperature Measurement”

- With range of 20°C~150°C, 0~550°C
- Support customization & expansion

## ✓ “Higher Efficiency”

- With start-up time at 3s and power consumption as low as 0.7w

## ✓ “Faster Integration”

- Support DVP/LVDS image output interface, RAW/YUV digital video output, serial port control



Model	COIN417 <sup>G2</sup> /R
IR Detector Performance	
Sensitive Material	Vanadium Oxide
Resolution	400X300
Pixel Size	17μm
Spectral Range	8μm ~ 14μm
Typical NETD	≤40mk
Image Processing	
Frame Rate	50Hz/30Hz/25Hz
Start-up Time	3s
Analog Video	PAL/NTSC
Digital Video	RAW/YUV/BT656
Image Algorithm	Non-uniformity Correction (NUC) 3D Noise Reduction (3DNR) De-noise (DNS) Dynamic Range Compression (DRC) Edge Enhancement (EE)
Digital Zoom	1X~8X Continuous Zoom, 1/8 Step Size (YUV Output)
Image Display	Black Hot/White Hot/Pseudo Color
PC Software	
ICC Software	Module Control and 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	0.7W
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	
Dimension (mm)	25.4×25.4×29.3 (With 9.1mm Lens) ; 25.4×25.4×41.2 (With 13mm Lens) 25.4×25.4×40 (With 19mm Lens) ; 43.4×43.4×56.6 (With 25mm Lens)
Weight	29g±2g (With 9.1mm Lens) ; 42g±2g (With 13mm Lens) 44g±2g (With 19mm Lens) ; 108±5g (With 25mm 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
Certificates	ROHS2.0/REACH
Optics	
Optional Lens	Fixed Athermal: 9.1mm/13mm/19mm/25mm
Protection Level	IP67 Rating (Front Surface)

Specifications are subject to change without prior notice.

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