GUIDE

Thermcore iM Series

Thermal Imaging Module

Thermcore iM is a new member of the Thermcore family. It is an uncooled thermal imaging module with high performance and reliability but low power consumption. The compact design and standard interface of Thermcore iM make it well-suited for OEM package and integration. The configured 16-bit digital interface also makes Thermcore iM a convenient platform for secondary development. Thermcore iM is an ideal choice as core in thermal imaging cameras for all applications.

Features and Benefits

- Low power consumption for longer working time
- Compact design for easy integration
- Extraordinary imaging performance for better recognition
- Versatile interface for flexible expansibility
- Various lens options for different range missions

Applications

- System Integration
- Law Enforcement
- Electrical Inspection
- Building Diagnostics
- Industry Inspection

Specifications

Detector	
Detector Type	UFPA microbolometer, Asi
Pixels	384 x 288
Pitchm	25 μ m
Spectral Range	8 μ m ~ 14 μ m
NETD	≤80mK @30℃
Image	
Video Output	PAL(25Hz)/NTSC(30Hz)
Video format	Analog video output / digital video output
Digital Zoom	2 x, 4 x
Image Enhancement	Image filtering and sharpening function
Brightness & Contrast adjustment	Auto/manual
Image Display	Mirror/ Invert
Polarity	B&W, B&W inverse
Power System	
Power Supply	4.2V DC
Power Dissipation	≤1.8W@25℃
Environmental Parameters	
Operating Temperature	-20℃ ~ +60℃(-40℃ ~ +60℃ optional)
Storage Temperature	-45℃ ~ +65℃
Humidity	None-condensing humidity in the range 5% to 95%
Interface	
Interface	Power, video and serial control (RS232, RS422, RS485 optional)
Physical Characteristics	
Weight	65g (excluding lens)
Size	40mm x 40mm x 40mm (excluding lens)

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