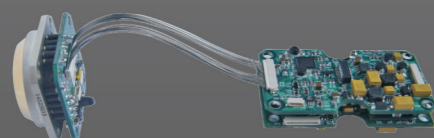


Uncooled Thermal Imaging Module



IR113



IR116

IR113/116 is designed for original equipment manufacturers (OEM). It can be easily integrated into infrared systems. IR113/116 produces 384x288 pixels high quality thermal images. Favoring from a lightweight, small size, low power consumption design, it is an ideal choice for customer secondary development and system integration.

Applications

- Industrial thermography
- Predictive maintenance
- Medical diagnosis
- Security application
- System integration
- Research & development

Features and Benefits

- Lightweight and compact
- Low power consumption
- High quality thermal image
- Standard interface for easy integration
- Flexible for customization
- Various lens optional

	IR113	IR116
Detector		
Detector Material	UFPA microbolometer, Asi	
Spectral Range	8~14 μm	
Pixels	384×288	160×120 / 384×288
Pitch	25 μm×25 μm	
NETD	< 80mk	< 120mk/ < 80mk
Thermal Response Time	7ms	
Fill Factor	>80%	
Bad Pixel	1%	
Image Presentation		
Video Output	PAL/NTSC	
Frame Frequency	50Hz /60Hz	
Adjust	Auto/Manual brightness & contrast adjustment	
Electronic Zoom	×2, ×4 interpolating	×2 interpolating
Polarity	B&W, B&W inverse(pseudo color optional)	
Interfaces		
Command and Control	RS232/422 alternative	
Video Output	RCA/BNC alternative	
Power System		
Power Supply	110/220VAC adapter	
Power Dissipation	<3.5W	3W
Environmental Parameters		
Operating Temperature	-20~50°C (-40~60°C optional)	
Storage Temperature	-20~50°C (-40~60°C optional)	
Physical Characteristics		
Weight	0.09kg	
Size	47.2mm×42.1mm×44mm	65mm×37.5mm×19.2 mm