

Cherry chip, tiny titan.

Micro III

Ultra-compact Professional Grade
Thermographic Module



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Micro III

LT

FT

Mini

Phoenix

Tiny1

S0



Cherry chip, tiny Titan.



InfiRay® Micro III module has compact size, light weight, low power consumption,
rich data interface, comprehensive analysis function.

It is easy to use and integrate, saving both time and effort.

It can provide a brand new solution for thermal sensing products of various industries,
thanks to its easy-to-use, professional, and comprehensive functions.



Security monitoring



Night vision/
firefighting helmet



Light UAV



Patrolling robot



Handheld temperature
measurement

Module	Temperature Measuring	
	Micro III 384T	Micro III 640T
Performance Specification		
Detector	VOx uncooled thermal FPA	
Resolution	384×288	640×512
Pixel Pitch	12μm	
Detector Frame Rate	50Hz	25Hz
Spectral Band	8~14μm	
NETD	≤50mK@25°C	
Thermal Image		
Brightness and Contrast	Manual/Auto	
Color Palettes	Optimal (14 species)	
Reticle	Display/Fade/Move(Support for Customization)	
Palette	Upto 18 palettes	
Zoom	1.0~8.0× Digital Zooming (0.1×Step)	

Image Filter		Digital Noise Reduction / Digital Detail Enhancement	
Power Supply			
Power Supply		4~6V DC	
		Over voltage, Under voltage, Reverse connection protection(with user extension component)	
Power Protection		Expansion board support over voltage, under voltage and reverse (Supported on expansion board)	
Typical Power Consumption @25°C	Without User Extension Component	0.9W	1W
	With User Extension Component	1.1W	1.2W
Connection Interface			
Video Output	Analog Video	1 channel PAL or NTSC	
	Digital Video	BT.656/14-bit or 8-bit LVCMOS/LVDS/MIPI/CameraLink	
Serial Port		RS-232/UART (3.3V)	
USB3.0		5V Typical, Image and Temperature data transmission, device control	

Temperature Measurement	
Measurement Range	-20°C~+150°C, -20~+550°C
Measurement Accuracy (1)	±0.3°C or ± 3% of Reading (Take Lager)@ Environment Temperature-20°C~+ 60°C
Measurement Tools	10 spots / Max & Min temp on Screen/ Center spot/1 2Lines/ Area Analysis/1 Isothermal Analysis
SDK	
Customization Support	User Language/Crosshair Customization
SDK	Support
Physical Character	
Weight	20g±3g (without lens & user extension component
Size	26mm×26mm×22mm (Without lens and expansion board)
Environmental Adaption	
Operating Temp	-40°C~+80°C
Storage Temp	-45°C~+85°C
Humidity	5~95%, non-condensing
Vibration	Random vibration, all the axes

Shock	80g, 4ms, back peak, sawtooth wave, 3-axis and 6-direction
Compliance	
RoHS2.0	Yes
CE	Yes

The data above are for reference only. Specifications in the marketed products shall prevail.

Product consulting

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MODULES

[Micro III Thermal Imaging Module](#)

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