

## Cherry chip, tiny titan.

Micro Series Uncooled Thermal Imaging Module



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# Wide application, great achievement

The Micro series LWIR thermal imaging module is designed for applications that have more requirements on size and power consumption, thus, size, weight, and power consumption are optimized.

It utilizes InfiRay® Matrix III infrared image processing architecture to enable advanced image processing and several

industry-standard communication interfaces. Multiple lightweight lens configurations are available.



Night Vision Helmet



## UAV

Model	MicroII640P	MicroII384
Performance		
Detector Type	Uncooled VOx Microbolometer	
Resolution	640×512	384×288
Pixel Pitch	12μm	17μm
Detector Frame Rate	50Hz	50Hz
Spectral Band	8~14μm	
NETD	≤50mK@25°C,F#1.0 (≤40mk optional)	
Image Adjustment		
Brightness and Contrast	Manual/Auto 0/Auto 1	

Polarity	Black Hot/White Hot		
Color Palettes	Optional (9 Species)		
Reticle	Display/Hide/Move		
Digital Zoom	1.0~8.0× Continuous Zoom (Step Size 0.1)		
Image Processing	Non-uniformity Correction		
	Digital Filtering Denoise		
	Digital Detail Enhancement		
Mirror Image	Horizontal/Vertical/Diagonal Mirror Image		
Power Supply			
Power supply range	4~6VDC		
	User Extension Components Support 5~24V DC		
Typical working voltage	4VDC		
Power protection	Overvoltage, Undervoltage, Reverse Connection (Supported on Extension Board)		
Typical power consumption@25°C	With	< 1.3W	< 1.0W
	out E xtensi on Bo ard		

	With Extension Board	< 1.6W	< 1.2W
Control Interface			
Video Output	Analog Video	1 Channel (PAL or NTSC)	
	Digital Video	BT.656	
	14Bit Video	14Bit or 10Bit LVCMOS	
	10Bit Video	14Bit or 10Bit LVDS	
Serial Communication Interface		RS-232	
		UART (3.3V)	
		RS-422	
Button		4 Buttons	
Physical Characteristics			
Weight (No Lens&Flange)		31g±3g	
Size (No Lens/ Extension Board)		Φ36×17.25 (mm3)	

## Environment Adaptability

Operating Temperature	-40°C~+80°C
Storage Temperature	-45°C~+85°C
Humidity	5~95%, Non-condensing
Vibration	6.06g, Random Vibration, 3 Axial
Mechanical Shock	80g, 4ms, Rear Peak Sawtooth, 3 Axial 6 Direction

## Product consulting

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## MODULES

[Micro III Thermal Imaging Module](#)

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[LT Temperature Measurement Module](#)

[FT Alarming Thermal Imaging Module](#)

[Phoenix Cooled MWIR Imaging Module](#)

## APPLICATIONS

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