

## Smarter machine vision.

LT Series Temperature  
Measurement Uncooled Thermal Imaging Module



[home](#) > [Product](#) > [Thermal Module](#) > [LTthermalmodule](#)

[Micro III](#)[LT](#)[FT](#)[Mini](#)[Phoenix](#)[Tiny1](#)[S0](#)

# Accurate and insightful to the hair

The LT series uncooled long-wave infrared (LWIR) module is designed for industry-grade infrared temperature measurement.

With high resolution and sensitivity, LT series modules can monitor equipment conditions and make warnings in a wide range of industrial applications, such as electric power detection, industrial process control, and rail traffic.



•  
Petrochemical



## Rail Transportation

Model	LT640	LT384
Performance		
Detector Type	Uncooled VOx microbolometer	
Resolution	640×512	384×288
Pixel Pitch	14μm	17μm
Detector Frame Rate	30Hz	50Hz
Spectral Band	8~14μm	
Image adjustment		

Brightness and Contrast	Manual/Auto 0/Auto 1
Polarity	Black Hot/White Hot
Color Palettes	Support (18 Types)
Digital Zoom	1.0~8.0× continuous zoom (Step size 0.1)
Mirror Image	Horizontal/Vertical/Diagonal Mirror Image
Area-of-interest	Support
Image Processing	Non-uniformity correction
	Digital filtering denoise
	Digital detail enhancement
Thermography	
Measuring Range	-20°C~+150°C, 0°C~+550°C
Gain Switch	High gain/Low gain/Auto switch
Measuring Accuracy	±2°C or ±2% of Reading (The larger one prevails) @Environment temperature -20°C~+60°C
Measuring Tools	10 fixed dots measurement

	Maximum/minimum temperature dots capture	
	Full frame measurement	
	Center dot measurement	
	12 line/rectangle analysis	
	Isotherm analysis	
Measurement Settling Time	≤10s (minimum)	
Temperature Correction	Manual/Auto	
Lens		
Lens	13mm、19mm、25mm、35mm、50mm	
Power Supply		
Power Supply Range	4~6VDC/ Expansion board support 5~24VDC	
Typical Working Voltage	4VDC/Expansion board support 12VDC	
Boot Time	≤12s	≤3s

Power Protection		Overvoltage, Undervoltage, Reverse Connection (Supported on Extension Board)	
Typical Power Consumption @25°C	Without Expansion Board	<1.4W	<1.3W
	With Expansion Board	<1.7W	<1.6W
Control Interface			
Video Output	Analog Video	1Channel (PAL)//NTSC	
	Digital Video	BT.656/ BT.1120 / 14-bit or 10-bit LVCMOS /14-bit or 10-bit LVDS-H/F	

Serial Communication Interface	RS-232/UART (3.3V)
Physical Characteristics	
Weight(No Lens)	< 76g
Size(No Lens)	44.5mm×43mm (Width × Height)
Environment Adaptability	
Operating Temperature	-40°C ~ +80°C
Storage Temperature	-45°C ~ +85°C
Vibration	4.3g, Random Vibration
Mechanical Shock	11ms, Final Peak Sawtooth Wave, 3 Axial 6 Direction
Humidity	5 ~ 95%, Non-condensing
Secondary Development	Support

## Product consulting

\* Message contents :



Mobile phone :

\* Country :

\* Product :

E-mail :

Submit

## CONTACT US

Marketing Dept.Email:[sales@infiray.com](mailto:sales@infiray.com)

HR Email:[hr01@infiray.com](mailto:hr01@infiray.com)

Sales Hotline:[+86-400-998-3088](tel:+86-400-998-3088)

After sales hotline:[+86-400-883-0800](tel:+86-400-883-0800)

Address:[11th Guiyang Street, YEDA,Yantai 264006,P.R.China](#)

## IMAGERS

[Thermal Monocular](#)

[Phone Thermal Camera](#)

[Car Thermal Camera](#)

[Clip on Thermal Scope](#)



[Rico Thermal Scope](#)

[Tube Thermal Scope](#)

[Dual spectrum thermal imager](#)

[online monitoring thermal camera](#)

## MODULES

[Micro III Thermal Imaging Module](#)

[Mini Thermal Imaging Module](#)

[LT Temperature Measurement Module](#)

[FT Alarming Thermal Imaging Module](#)

[Phoenix Cooled MWIR Imaging Module](#)

## APPLICATIONS

[Infrared Thermography](#)

[Security Thermal Camera](#)

[Night Vision](#)

[UAV Thermal Module](#)

[Smart Phone](#)

[Automotive Thermal Camera](#)

Follow Us :



