

<http://www.irtek-temp.com/>

IRtek International

Ti50series



Â	Ti50	Ti50+
Imaging Performance		
Field of View	18Â° x 13Â°	
Lens	13mm	
Spatial Resolution	1.9mrad	
Thermal Sensitivity / NETD	100mK / 0.1Â°C at 30Â°C	
Image Frame Rate	50 Hz full real time	50 Hz / 60 Hz full real time
Focus	Manual Adjust, 30cm (11.8") to infinity	
Detector	160 x 120, Uncooled Microbolometer FPA (ULIS France)	
Spectral Range	8 ~ 14Âµm	
Imaging Presentation		
External Display	63.5mm / 2.5Â° color LCD, Full screen pseudo color	
Video Output	Not Available	PAL / NTSC Composite Video
Measurement		
Temperature Range	-20 to 350Â°C (-4 to 662Â°F)	-20 to 600Â°C (-42 to 1112Â°F)
Basic Accuracy	Â±2Â°C or Â±2% of reading (whichever is greater)	
Measurement Modes	<ul style="list-style-type: none"> â€¢ One moveable spot â€¢ Alarm 	<ul style="list-style-type: none"> â€¢ Four moveable single spot â€¢ Alarm â€¢ Three moveable area displaying max, min, avg
	<ul style="list-style-type: none"> â€¢ One movable area displaying max, min, avg 	<ul style="list-style-type: none"> â€¢ Isothermal band
	Â	<ul style="list-style-type: none"> â€¢ One line profile displaying max & min
	Â	<ul style="list-style-type: none"> â€¢ Temperature difference
Display Color	3 Palettes available	11 Palettes available
Temperature Unit	Â°C or Â°F selectable	
Image Adjustment	Auto / Manual gain & brightness	

Emissivity Correction	Variable 0.01 to 1.00 by 0.01 increments	
Measurement Features	Not available	Manual / automatic corrections based on user input for ambient temp, distance, & relative humidity
Image Storage		
Type / Formay	Built-in Flash Memory / JPEG(14bit thermal image)	
Image Storage	up to 1000 images	up to 2000 images
Voice Annotation	N/A	40 seconds of digital voice clip stored with each time
Interface		
Communication	USB 2.0	
Laser Locator	Class 2, semiconductor diode laser: 1mW / 635nm (red)	
Power Source		
Power Supply	Built-in rechargeable Lithium-ion battery, field-replaceable	
External Power	Not Available	10 ~ 15VDC
Battery Operation	Approximately 3 hours	
Charger	100 ~ 240V AC, 50/60 Hz	
Power Requirement	7.2V DC	
Environmental		
Operating/Storage Temp.	-15 to 50Â°C (-4 to 122Â°F) / -25 to 60Â°C (-13 to 140Â°F)	
Operating/Storage Humidity	Â±90%, non-condensing	
Enclosure /Tripod Mounting	IP 54 / Â¼ " - 20	
Physical Characteristics		
Unit Dimensions / Weight	250x100x72mm / 9.8x3.9x2.8" / 680g (1.5 lb) including battery	
Vibration/Shock Test	MIL-STD 810F Method 503.4: 1/2 sine 40g, 11 ms, 3 shocks per axis and per direction	MIL-STD 883 Method 2002, condition A : 1/2 sine 500g, 1 ms, 5 shocks per axis and per direction
Accessories / Options		
Standard Accessories	<ul style="list-style-type: none"> â€¢ IR Reporter Software â€¢ Warranty Card â€¢ 2 Rechargeable Batteries â€¢ Battery Charger â€¢ USB 2.0 Cable â€¢ Anti-glare Viewer â€¢ Carrying Case & Strap â€¢ Certificate of Product Conformance â€¢ Manual 	<ul style="list-style-type: none"> â€¢ IR Reporter Software â€¢ Warranty Card â€¢ Battery Charger â€¢ Carrying Case and Strap â€¢ Certificate of Product Conformance â€¢ Video Cable â€¢ Headphone â€¢ Manual â€¢ Anti-glare Viewer â€¢ USB 2.0 Cable â€¢ 2 Rechargeable Batteries

Options	Not available	• Hi-Temperature Lens* • Power Cable • Lenses*: 7.5mm (40° x 30°), 36mm (9° x 7°), 50mm (6° x 4.5°) • Tele Converter 3x • Wide Angle Converter 0.5x Tripod Indoor Housing & Mounting Brackets
* Lenses are not interchangeable and must be specified at times of order Specifications subject to change without prior notice, please confirm to your distributor for the latest specification		

[Vendor Information](#)