



FLIR i5 InfraRed Camera

FLIR i5 A “small” InfraRed Revolution

Affordable infrared camera with high quality image, high accuracy, focus free viewing, and storage on miniSD card.

- Extremely lightweight, 0.34 kg
- 2% high accuracy and thermal sensitivity of 0.1°C
- Large 2.8 in. color LCD with quality images saved on miniSD card
- Long, 5 hour battery life
- Focus free lens for quick and convenient viewing



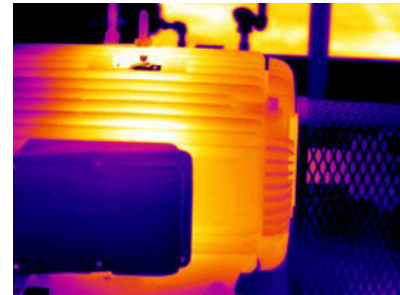
Electrical & mechanical applications

Locate electrical problems

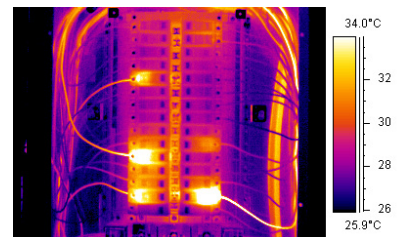
Issues with electrical connections, wiring or other system components are clearly highlighted as “hot spots” with infrared imaging. This makes them easy to locate and repair. You can clearly see the overheated connections on the thermal image.

Check mechanical devices

Inspection of this water pump shows no problem. The infrared image verifies that there is water in the pump cylinder and there is no danger of overheating the pump.



Infrared Imaging helps to spot potential problem and prevent downtime in mechanical systems



Quick scan to isolate hot spots in electrical wirings and fuse panels

FLIR i5 Technical Specifications

Imaging and optical data	
Field of view (FOV)	17° × 17°
Minimum focus distance	0.6 m
Spatial resolution (IFOV)	3.71 mrad
Thermal sensitivity/NETD	< 0.1°C
Image frequency	9 Hz
Focus	Focus free
Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 µm
IR resolution	80 × 80 pixels
Image presentation	
Display	2.8 in. color LCD
Image adjustment	Automatic adjust/lock image
Measurement	
Object temperature range	-20°C to +250°C
Accuracy	±2°C or ±2% of reading, for ambient temperature 10°C to 35°C
Measurement analysis	
Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
Set-up	
Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage type	miniSD card
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Mini-B: Data transfer to and from PC
Power system	
Battery type	Rechargeable Li Ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at +25°C ambient temperature and typical use
Charging system	Battery is charged inside the camera.
Charging time	3 hours to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 V output to camera
Environmental data	
Operating temperature range	0°C to +50°C
Storage temperature range	-40°C to +70°C
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	• EN 61000-6-2:2005 (Immunity) • EN 61000-6-3:2007 (Emission) • FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	Camera housing and lens: IP 43 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Physical data	
Camera weight, incl. battery	0.34 kg
Camera size (L × W × H)	223 × 79 × 83 mm
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)

Scope of delivery	
Packaging, contents	• Hard transportation case • FLIR i5 with calibration certificate • FLIR QuickReport CD • Printed Getting Started Guide • User documentation CD-ROM • Hand strap • Battery (inside camera) • Power supply/charger with EU, UK, US and Australian plugs • USB cable • miniSD card (512 MB), with SD card adapter

Asia Pacific Headquarter
Hong Kong
FLIR Systems Co Ltd.
Room 1613 – 16, Tower 2 Grand Central Plaza
138 Shatin Rural Committee Road, N.T, Hong Kong
Tel: +852 2792 8955 Fax: +852 2792 8952
Email: flir@flir.com.hk Web: www.FLIR.com/THG

