FLIR i3,i5,i7
Technical Specifications

CAMERA SPECIFIC

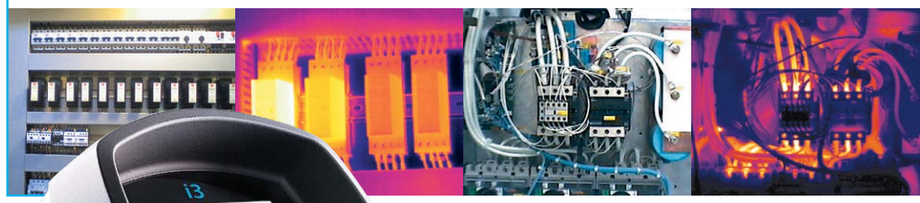
Field of view/min focus distance	12.5° x 12.5°/0.6 m	21° x 21°/0.6 m	29° x 29°/0.6 m
Thermal sensitivity	<0.15°C	<0.1°C	<0.1°C
IR Resolution	60 x 60 pixels	100 x 100 pixels	140 x 140 pixels
Measurement modes	Center spot	Center spot	Center Spot, box with max./min. temp., isotherms above/below selected temperature interval

GENERAL

Imaging Performance	
Spectral range	7.5 - 13 µm
Spatial resolution (IFOV)	3.7 mrad
Image Frequency	9 Hz
Focus	Fixed
Focal Plane Array (FPA)	Uncooled microbolometer
Image Presentation	
Display	2.8 " color LCD
Measurement	
Object temperature range	-20°C to +250°C
Accuracy	±2°C or ±2% of reading
Measurement Analysis	
Emissivity correction	Variable from 0.1 to 1.0
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,
Image Storage	
Type	miniSD card
File format	Standard JPEG, 14-bit measurement data included
Power	
Battery type	Li-Ion rechargeable
Battery operating time	5 hours , display shows battery status
Charging system	In camera, AC adaptor; 3 hours to 90% capacity
AC operation	AC adaptor 90-260 VAC input
Power management	Automatic shutdown (user selectable)
Adaptor voltage	5 VDC out
Environmental Specifications	
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
Shock	25G, IEC 60068-2-29
Vibration	2G, IEC 60068-2-6
Drop	2m
Encapsulation	Camera housing and lens: IP43
Physical Characteristics	
Dimensions	223 x 79 x 83 mm
Weight	365g, including battery
Shipping size	120 x 400 x 320 mm
Shipping weight	2.8 kg
Standard Package	

FLIR i3, FLIR i5 or FLIR i7 thermal imaging camera, hard transport case, FLIR Tools™ PC software CD-ROM, printed getting started guide, printed important information guide, warranty extension card, user documentation CD-ROM, calibration certificate, hand strap, battery (inside camera), power supply/charger with EU, UK, US and Australian plugs, USB cable, miniSD card, with SD card adaptor

The infrared revolution continues...



- Extremely rugged, withstands 2m drop, IP43
- Outstanding ease-of-use
- Fully automatic
- Focus free
- Compact and light weight (365 g)
- SD card storage
- FLIR Tools software included
- Outstanding accuracy

FLIR i3, i5, i7

The lightest and most affordable thermal imaging camera range for electrical and mechanical inspections.

IP43 Splashproof Dustproof

YEAR 2 FULL PRODUCT WARRANTY* YEAR 10 DETECTOR WARRANTY*

* After product registration on www.flir.com

FLIR®

FLIR® Pyrosales Total Sensor Solutions

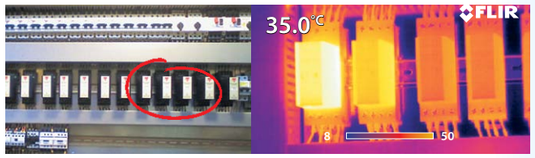
www.flir.com

FLIR Systems Pty Ltd. 10 Business Park Drive, Notting Hill, Victoria 3168, Australia
VIC: 03 9550 2800 NSW: 02 8853 7870 WA: 08 6263 4438 QLD: 07 3861 4862 SA: 08 8274 3747
Tel AU: 1300 729 987 NZ: 0800 785 492 Email: info@flir.com.au

i-Series br_en_AUS 01/12

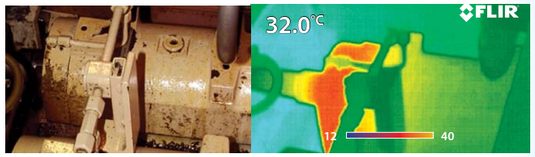
PERFECT FOR ELECTRICAL, BUILDING, PLUMBING & MECHANICAL INSPECTIONS

Avoid unplanned shutdowns



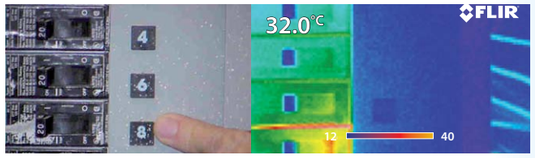
Inspecting a defective fuse using a FLIR thermal imaging camera.

Verify repairs



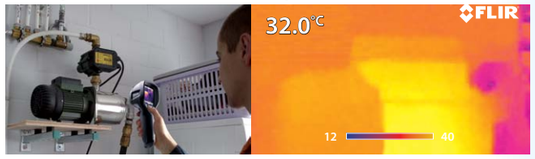
Mechanical check-up of an electrical motor using the FLIR i-Series.

Check electrical installations



Bad connections are invisible to the naked eye but are clearly seen on the thermal image.

Identify electrical and mechanical problems



Thermal imaging allows you to quickly identify electrical and mechanical problems.

Building inspections

Identify ways to save money on energy costs.

Plumbing inspections

Detect blockages and other plumbing issues in pipes.

Thermal imaging shows what the human eye can't see

Thermal imaging shows what the human eye can't see

Infrared radiation (IR) is emitted by every object above a temperature of -273°C. Although the human eye cannot detect infrared radiation, a thermal imaging camera can, and takes pictures of objects to show the amount of heat they are emitting. Thermal imaging cameras are thus invaluable diagnostic tools in a variety of industries, as they can detect abnormally hot or cold areas of components. In other words, you can detect problems that are invisible for the naked eye.

The benefits of thermal imaging

Anyone who is responsible for identifying electrical or mechanical problems or conditions will benefit from a thermal imaging camera. A thermal imaging camera produces non-contact temperature measurements as thermal images and will greatly help by increasing quality, saving costs and speeding up your work. With the reporting software included in the camera package it is easy to create reports, analyze and document your findings.

1.Point 2.Shoot 3.Detect

Three simple steps to thermography success

- Detect hidden problems, make quick damage assessments and perform preventative inspections
- Identify energy losses and poor insulation
- Spot electrical faults before it is too late
- Produce instant thermal images of your findings
- Create reports, analyse and document your findings with the easy-to-use software

WHY USE THERMAL IMAGING?

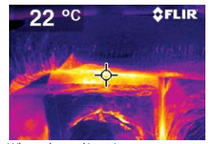
Spot pyrometer, temperature measurement in one spot.

FLIR i3, temperature in 3,600 spots.

FIND PROBLEMS FASTER AND EASIER WITH EXTREME ACCURACY.

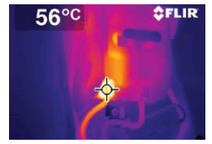
Don't confuse a FLIR i-Series camera with a spot pyrometer. A spot pyrometer only records the temperature of a certain spot making it easy to miss critical problems. A FLIR thermal imaging camera scans entire components giving you instant diagnostic insights showing the full extent of problems. The FLIR i3 for example, is equivalent to 3,600 readouts from a traditional single spot pyrometer.

What a spot pyrometer sees.



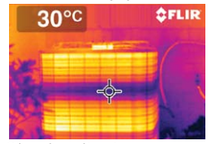
What a thermal imaging camera sees.

What a spot pyrometer sees.



What a thermal imaging camera sees.

What a spot pyrometer sees.



What a thermal imaging camera sees.

FACTS AT A GLANCE

FLIR i3	FLIR i5	FLIR i7
Thermal image quality: 60x60 pixels	Thermal image quality: 100x100 pixels	Thermal image quality: 140x140 pixels
Field of View: 12.5°(H) x 12.5°(V)	Field of View: 21°(H) x 21°(V)	Field of View: 29°(H) x 29°(V)
Thermal sensitivity: 0.15°C	Thermal sensitivity: 0.10°C	Thermal sensitivity: 0.10°C
Spotmeter only	Spotmeter only	Spotmeter, area with max./min. temperature, isotherm above/below

FLIR PACKS A PIXEL

FLIR i3	3,600 pixels 60x60 IR resolution
FLIR i5	10,000 pixels 100x100 IR resolution
FLIR i7	19,600 pixels 140x140 IR resolution

Pyrosales
Total Sensor Solutions