



FLUKE®

- Complete imaging solution

- Lowest cost of ownership

- Designed for predictive maintenance

Fluke Ti30 Thermal Imager
Everything needed for everyday imaging.

Fluke Ti30 Thermal Imager

Unbeatable solution for infrared predictive maintenance.

Inspection routes improve maintenance performance.

Both preventive and predictive maintenance programs rely on periodic inspections of critical plant assets. To optimize a program's success, maintenance personnel develop inspection routes by determining the frequency, sequence and physical course for equipment needing inspection.

The Fluke Ti30 Thermal Imager uniquely supports thermography inspection routing. After the first inspection, the images taken can be combined in the InsideIR™ software with location names and temperature data, and uploaded to the imager for use as a routing guide.

During subsequent inspections, an on-camera display prompts the user exactly where to take images—improving accuracy. The new images are easily compared to previous scans, helping to identify potential problems before they cause failure.

Expand your predictive maintenance program.

The Fluke Ti30 Thermal Imager enables plant thermography specialists to manage a much larger infrared predictive maintenance program—and delegate inspection routing responsibilities to appropriate personnel, such as electricians and mechanics, who specialize in the equipment being inspected. This frees the trained expert to handle program management, image analysis and interpretation, and report generation.



Obtain high-quality thermal images with a simple "click" of the trigger.



Download images and data into the companion *InsideIR* software for analysis and reporting.



Assign a unique name, preset emissivity and other values, assign alarm limits, and add meaningful comments to each measurement location. Reload the data into the Ti30.



Inspections can now be delegated to electricians and mechanics most familiar with the equipment. Users simply follow the on-camera, step-by-step routing instructions, then point, focus and create a new image.



Easy to learn and easy to use.

- Single-level menus make set-up easy.
- Gain and level controls can be set to “automatic” or changed manually for maximum flexibility.
- Squeeze trigger once to freeze an image—then choose whether to store it or discard without saving.
- Direct access switches allow quick setting changes for laser, temperature scale, image palette, backlight, and measurement modes.

Designed for the industrial maintenance environment.

The Ti30 thermal imager enables infrared inspections all day—every day. The camera’s 5+ hour battery life, and 100-image storage capacity, are more than enough for an entire shift of uninterrupted inspections.

Use the rugged Ti30 thermal imager for thermographic inspections **anytime, anywhere**, to identify potential equipment problems before they cause failure.

Best complete thermog

Versatile solution for plant maintenance professionals.

- High performance features for the expert, packaged in an easy to use device for beginners.
- Adjust key image parameters (emissivity, reflected temperature compensation, temperature level and gain) in the field on the camera, or back at the office on the PC.
- Large, clear LCD display works well both indoors and outside.
- Use the docking station for USB communications in the office, or the USB field cable when working remotely.
- Use the rechargeable battery pack or the standard AA pack.



**InsideIR software:
Powerful and flexible.**

The Fluke Ti30 Thermal Imager allows maintenance personnel to quickly and easily capture high-quality infrared images in the field. Because the camera collects 12 bits of information for every one of its 19,200 pixels, users are able to recognize even the smallest detail. With a properly composed, well-focused image, all further analysis can be performed with the InsideIR software in the quiet, comfort and safety of an office.

Either in the imager during the scan, or later in the *InsideIR* software, users can adjust:

- Palette settings
- Emissivity
- Reflected temperature correction values
- Level and gain

This approach provides flexibility and eliminates the need to re-scan equipment if different settings are desired once the user is back in the office. The file of images and data can also be e-mailed to other Ti30 imager-InsideIR software users, making information sharing and cross-checking easy.



Includes professional thermography training course to accelerate return on investment.

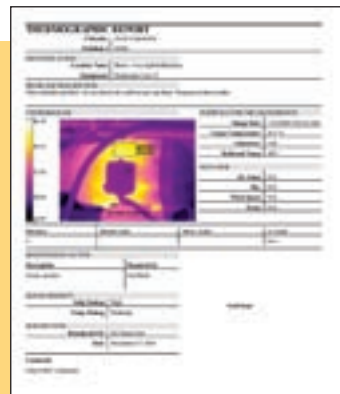
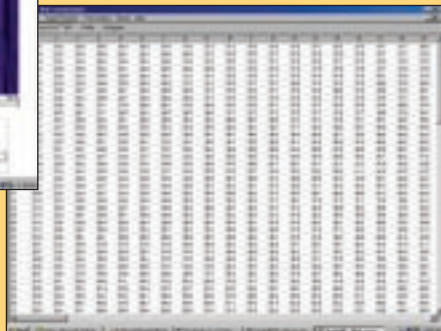
- Practical, hands-on course designed to shorten the learning curve for new Fluke Ti30 Thermal Imager owners covers:
 - Infrared and thermography theory
 - Primary applications for electrical and mechanical systems
- Taught by certified thermography professionals.

Thermography solution



Capture clear thermal images and easily analyze the radiometric (temperature) data for all 19,200 pixels.

Analyze individual images, easily identify hot (or cold) spots and select areas for min., max. and avg. temperature values.



Quickly and easily create professional reports using InsideIR software.

Lowest ownership cost for a fully radiometric imager

The Fluke Ti30 Thermal Imager includes all the necessary hardware, unlimited-use software, free periodic upgrades, and free thermography training, without any additional costs. Standard calibration and service for the Ti30 imager are available at very affordable rates.



Included with the Fluke Ti30:

- Docking Station with Universal Power Adapter and USB Connection
- Interactive CD with unlimited-use *InsideIR* Software and User Manual
- Training CD
- USB Field Cable
- Rechargeable Battery Pack
- AA Battery Pack (batteries not included)
- Quick Reference Card
- Carrying Pouch
- Hardshell Carrying Case
- One Seat in Professional Training Course

To realize the benefits of a complete thermography solution, here are some questions to consider:

Product and performance

- Is the camera you are purchasing fully radiometric?
- Are you able to measure temperature on every one of the available pixels?

Software

- Is there an additional cost for professional reporting software?
- Is there a licensing fee for each additional user or desktop?

Training and ease of use

- Is training offered at no additional cost?
- Is the camera easy to use?
- Will your electricians and/or mechanics, with only some basic training, be able to use the camera as a tool to help them do their job better?

Service and repair

- How much does it cost to send the camera in for calibration?
- How much do basic repairs cost?
- How well is the lens protected?

Additional batteries, chargers or replacements

- How does the battery recharging time compare to the battery discharging time?
- How many batteries and charging stations are needed to get through a full day of inspections?

Fluke Ti30 Thermal Imager Specifications

FLUKE

Detector	
Detector Type:	120 x 160 uncooled focal plane array
NETD (Thermal Sensitivity):	200 mK
Thermal	
Temperature Range:	-10° to 250 °C
Accuracy:	Above 0°C: ±2 % or ±2 K, whichever is greater Below 0°C: ±3 % or ±3 K, whichever is greater
Optical	
Optical Resolution:	90:1
Slit Response Optical Resolution:	225:1
Minimum Diameter Measurement Spot:	7 mm at 61 cm
Field of View (FOV):	17° Horizontal x 12.8° Vertical
Target Sighting:	Single laser (Meets IEC Class 2 requirements)
Controls and Adjustments	
Focus:	Focusable, 61cm to infinity
Temperature Scale:	°C or °F selectable
Palettes:	Gray, Ironbow or Rainbow
Measurement Modes:	Automatic, Semi-Automatic, or Manual
LCD Backlight:	Bright, Dim, Off-Selectable
Adjustable Emissivity:	0.10 to 1.00 by 0.01
Reflected Temperature Compensation (RTC):	-50 to 460 °C
Environmental	
Ambient Operating Temperature:	-10 to 50 °C
Relative Humidity:	10 to 90 % Non-Condensing
Storage Temperature:	-25 to 70 °C (without batteries)
Other	
Storage Capacity:	100 images
Power:	Rechargeable battery pack or 6 AAs (not included)
Battery Life:	Minimum 5 hours continuous use
Image Frame Rate:	9 Hz
Thermal Analysis Software:	InsideIR (included)
PC Software Operating Systems:	Microsoft® Windows® 98®SE, 2000® or XP®
Weight (includes batteries):	1 kg
Warranty:	2 years

Ordering information

Fluke Ti30 Thermal Imager

Fluke. *Keeping your world up and running.*

Fluke Europe B.V.

P.O. Box 1186
5602 BD Eindhoven
The Netherlands

For more information call:
In the U.S.A. (800) 443-5853
or Fax (425) 446 -5116
In Europe/M-East/Africa +31 (0)40 2 675 200
or Fax +31 (0)40 2 675 222
In Canada (905) 890-7600
or Fax (905) 890-6866
From other countries +1 (425) 446 -5500
or Fax +1 (425) 446 -5116

Visit us on the world wide web at:

<http://www.fluke.com>



S J ELECTRONICS
POWER • TEST & MEASUREMENT

0800 583 44 55

Tel: +44 1536 416 200

Fax: 0800 583 55 66

sales@sjelectronics.co.uk

www.sjelectronics.co.uk