Low cost of ownership for a fully radiometric imager

The Fluke Ti30 Thermal Imager provides low total cost of ownership for a full-featured, radiometric imager. The package includes all hardware, software and training required without any additional costs. Standard calibration and service rates for the Ti30 imager are also extremely competitive for the industry.

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

To understand your full investment in a thermography program, here are some questions to consider:

Product and performance
- Is the camera you are purchasing fully radiometric (i.e. measures temperature on every one of the available pixels)?
  - The ability to measure absolute temperature is critically important to establishing an effective predictive maintenance program for electrical and mechanical equipment.

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?

Re-calibration, service and repair
- How much does it cost to send the camera in for calibration?
- How much do basic repairs cost?
- How likely is it that the lens will be scratched?

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

Detector	
Detector Type:	120 x 160 uncooled focal plane array
NETD (Thermal Sensitivity):	200 mK
Thermal	
Temperature Range:	–10 to 250 °C (14 to 482 °F)
Accuracy:	±2 % or ±2 °C (±3 % or 3 °C from –10 to 0 °C)
Optical	
Optical Resolution:	90:1
Slit Response Optical Resolution:	225:1
Minimum Diameter Measurement Spot:	7 mm (0.27 in) at 61 cm (24 in)
Field of View (FOV):	17 ° Horizontal x 12.8 ° Vertical
Target Sighting:	Single laser (Meets IEC Class 2 & FDA Class II requirements)
Controls and Adjustments	
Focus:	Focusable, 61cm (24 in) 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 Background Temperature:	–50 to 460 °C (–58 to 860 °F)
Environmental	
Ambient Operating Temperature:	–10 to 50 °C (14 to 122 °F)
Relative Humidity:	10 to 90 % Non-Condensing
Storage Temperature:	–25 to 70 °C (–13 to158 °F) (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:	20 Hz
Thermal Analysis Software:	InsideIR (included)
PC Software Operating Systems:	Microsoft® Windows® 2000® or XP®
Weight (includes batteries):	1 kg (2.2 lb)
Warranty:	1 year (U.S. only)

Ordering information

The Fluke Ti30 Thermal Imager is sold exclusively through authorized thermography distributors. To request a demonstration or order a Ti30 imager, visit **www.fluke.com/thermography** or call (800) 443-5853.

Fluke. *Keeping your world up and running.*

- Complete imaging solution
- Low 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.
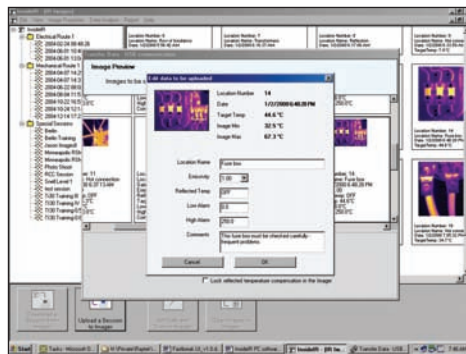
Assign a unique name, preset emissivity and RTC values, assign alarm limits and add meaningful comments to each measurement location.

Inspections can now be delegated to electricians and mechanics, those most familiar with the equipment. They simply follow the on-camera, step by step routing instructions, point, focus and shoot.

Easy to learn and easy to use.

- Single-level menus make set-up easy, without the complicated multi-layer decisions other imagers require.
- 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 for laser, temperature scale, palette, backlight and measurement modes means changing takes only a second.

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. Other systems would require three batteries, multiple chargers, and/or additional memory devices for similar performance.

With the rugged Ti30 thermal imager, maintenance organizations can conduct thermographic inspections anytime, anywhere, and identify potential equipment problems before they cause failure. Use the Ti30 imager regularly—not just in a crisis or for an annual maintenance check.

InsideIR software: Powerful and flexible.

The Fluke Ti30 Thermal Imager allows maintenance personnel to quickly and easily capture high-quality infrared images. Because the camera collects 12 bits of information for every one of its 19,200 pixels, users in the field can simply point, focus and shoot. 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.
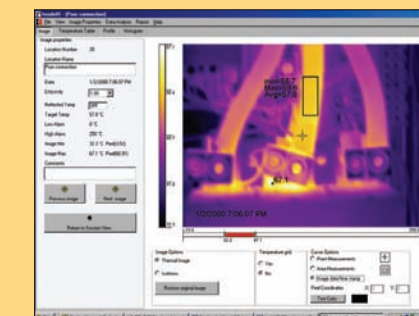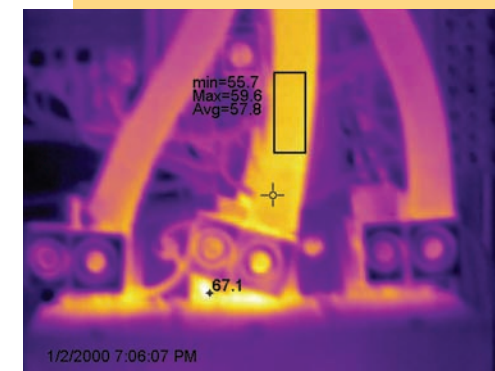
In the imager during the scan, or later in the InsideIR software, adjust:
- Palette settings
- Emissivity
- Reflected temperature correction values
- Level and gain

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.

*In U.S. and Canada. Training program varies by country. Travel expenses not included.
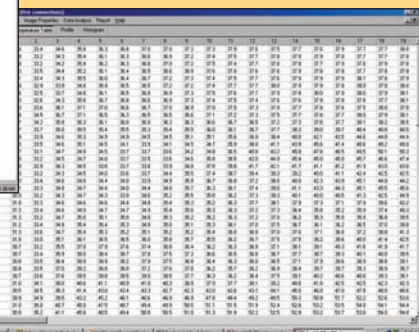
Best complete thermography solution

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, RTC, 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.

Capture clear thermal images and easily analyze the radiometric (temperature) data for all 19,200 pixels.
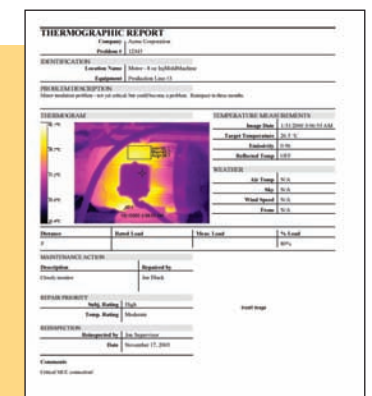
Analyze individual images, easily identify hot (or cold) spots and select areas for min., max. and avg. temperature values.

Quickly and easily create professional reports using InsideIR software.