

FLUKE®

Fluke Ti Series Thermal Imagers

Predict impending failures faster
by seeing more



IR·Fusion™

Fluke IR FlexCam® Thermal Imagers

The thermal imagers for professionals demanding the best



The Fluke IR FlexCams produce the industry's largest and sharpest thermal images. The FT models feature the innovative IR-Fusion™ technology to better pinpoint impending problems.

See exactly what you are viewing

Fluke IR-Fusion technology links a real world visual image with a thermal image. It merges the two images into one, with the possibility to blend between the two images or create picture-in-picture combinations. Alarm limits can be superimposed over the visible light image to exactly pinpoint the components exceeding a specified temperature limit. Both the visual images and thermal images are available for use in reports. This speeds up documentation by reducing the need to look for individual images taken with a separate digital camera. IR-Fusion helps to better identify and report suspect components and enable the repair to be done right the first time.

Large, sharp thermal images

Thanks to the largest display (five-inch) available on this type of thermal imager in combination with low-noise VOx sensors, the Fluke IR FlexCam units produce exceptionally high-quality images making even the smallest temperature differences visible. This is comparable with images normally only obtained on far more expensive instruments.

A sharp image in every situation

The innovative 180 ° articulating lens makes it possible to view and capture images in areas with poor accessibility. The display remains clearly visible while viewing over high objects, under a machine or around immovable obstructions. The SmartFocus wheel simplifies getting a stable and sharp image. No need to take your hand off the instrument to turn a focus ring.

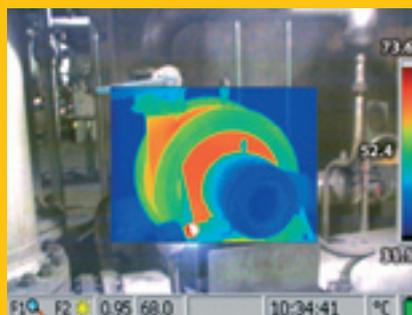


Make anomalies visible

Thanks to built-in functions like AutoCapture, the IR FlexCam Thermal Imagers help to troubleshoot difficult problems. The instrument is easily set up to automatically capture only those images where a temperature limit is exceeded. This way, difficult to find intermittent problems can be captured and analyzed quicker by concentrating only on the images containing the anomalies.

Analysis and reporting comes standard

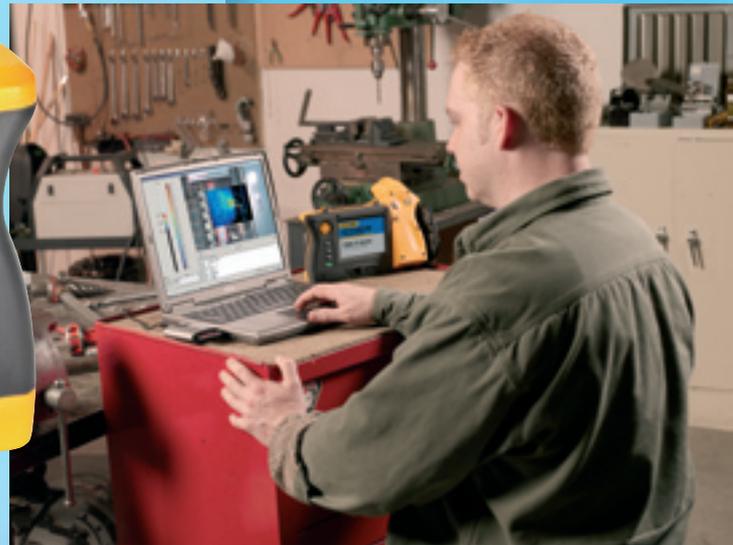
The SmartView™ software (supplied with the unit) includes a complete range of infrared image viewing, analysis, annotation and reporting tools. It even allows for customized reports to accommodate specific company work processes or requirements like multiple image reporting and comparisons.



Fluke IR-Fusion Technology

Infrared and Visible light images are fused together - enabling you to view images in a range of modes from full IR to full visible light, and see exactly what you are viewing. See separate IR-Fusion leaflet.





Fluke Ti20 Thermal Imager

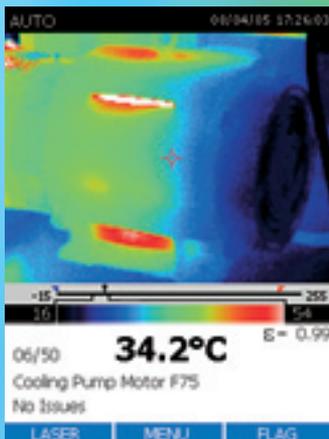
The thermal imager for everyday maintenance and inspection



The Ti20 brings the powerful diagnostic capabilities of infrared thermal imaging technology within reach of a wider range of industrial applications. It is easy to operate by the service and maintenance personnel who know and understand the equipment best.

Point-and-shoot simplicity

Easy to use thanks to 'point-and-shoot' operation and intuitive on-screen guidance, the Ti20 user does not require specialist training to operate the images. Just point at the target, focus the instrument and it automatically adjusts the temperature range for a detailed image. The image and associated measurement data (fully radiometric) is stored for later analysis using the powerful InsideIR™ software (supplied).



Inspection routing - improving maintenance performance

An inspection route details the frequency, sequence and physical route of equipment that needs to be inspected. The InsideIR software facilitates setting up such an inspection route using unique location names, measurement setup data and high / low temperature alarms. These routes can be uploaded to the imager for use as a routing guide.

During an inspection, the on-camera instructions help the user navigate to the next image location on the route. The new image can be compared to the previous image, on the camera or in the software, helping to identify potential problems before they cause failure.

Radiometric measurement - the 'data behind the picture'

Fully radiometric thermal imagers capture and store calibrated temperature data for thousands of points in a thermal image matrix. This makes it possible to perform detailed analysis and change key parameters like emissivity or temperature level and span either in the field on the camera or later using the PC software.





The Fluke Ti Series Thermal Imagers

Fluke offers a complete range of handheld thermal imagers, ranging from the affordable Fluke Ti20 to the high-precision Fluke IR FlexCam® Series that delivers the largest and sharpest images. The Ti20 is for technicians doing route-based infrared inspections and everyday maintenance whereas the IR FlexCam Series is designed for Predictive Maintenance (PdM) experts, process engineers, and consultants who need the best thermal imager available.



Sharp, high-resolution thermal images

The Ti Series is available with different detector sizes, temperature ranges and thermal sensitivities to meet every image quality requirement. All Fluke thermal imagers are fully radiometric. Measurement data for thousands of individual sensor points are stored. All these data points can be used for analysis and reporting on the imager or in the software supplied with each instrument.

The fastest way to identify impending failures

The rugged, battery-powered instruments are easy to use, and incorporate advanced features to increase your ability to predict impending problems faster. The IR FlexCam models, for example, have articulating lenses to facilitate working in confined spaces. The FT models feature IR-Fusion technology to link the real world with temperature information.

The solution for industrial maintenance applications

Built for the industry, Fluke Ti Series Thermal Imagers can carry out inspections anytime, anywhere and anyplace. In fact thermal imagers can be used anywhere temperature plays an indicating a role. Some industry applications are:

Electrical power distribution systems

- Three-phase systems
- Overhead power cables
- Distribution panels
- Fuses, wiring and connections
- Power/utility

Electro-mechanical equipment

- Motors and pumps
- Bearings, pulleys and belts

Process monitoring

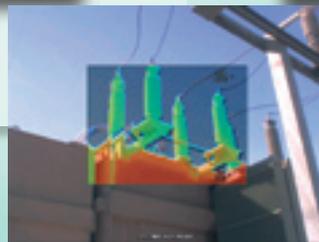
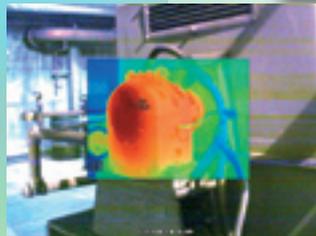
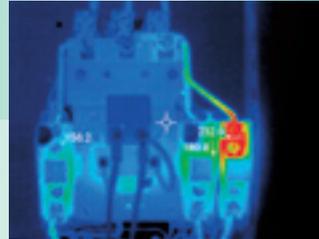
- Process control equipment
- Tanks, pipes, valves, steam traps and vessels

Facility maintenance

- HVAC systems
- Buildings and roofs

Other

- Electronic design
- And many more



Keeping your world up and running



Fluke offers a wide range of electronic, electrical and power quality troubleshooting tools for the industry. With our long experience in delivering top quality, easy-to-use and safe tools, we understand your job and the challenges you face day in-day out. Fluke tools are designed to improve your ability to do a better job by offering rugged, reliable and innovative instruments.

To find out more about Fluke thermal imagers go to www.fluke.com/thermography or in the United States call **1-800-760-4523**.

Fluke. Keeping your world up and running.™

Fluke Corporation
PO Box 9090, Everett, WA USA 98206

Fluke Europe B.V.
PO 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 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

©2006 Fluke Corporation. All rights reserved.
Printed in U.S.A. 5/2006 2674264 B-US-N Rev A

For more application information visit
www.fluke.com/thermography