

ThermoView™ Ti30

High Performance Thermal Imager

High Performance Thermal Imager for Predictive Maintenance



- Displays Thermal Image and Temperature
- Scans Quickly and Smoothly
- Includes InsideIR™ Software for Analysis and Reporting

Introducing the ThermoView Ti30
— the first affordable thermal
imager specifically designed for
predictive maintenance, with just what
maintenance professionals need to conduct
thermographic inspections anytime, anywhere.

 **Raytek®**



ThermoView Ti30

High Performance Thermal Imager for Predictive Maintenance



First of its kind, the ThermoView Ti30 thermal imager offers breakthrough performance for maintenance engineers, managers, crews—anyone who ever wanted to do thermographic inspections on their own terms. For optimal results and quick payback, professionals use the ThermoView Ti30 thermal imager in every inspection—not

just in a crisis or for an annual maintenance check. Easily capture thermal images with the ThermoView Ti30 thermal imager during scanning with

simple “click” of a trigger.

- 1 Record image**
- 2 Download image and data**
- 3 Create and share reports**
- 4 Evaluate success of follow-up actions**

Save images for downloading into companion InSidelR software for qualitative and quantitative thermal imaging analysis and reporting. Preventive and predictive maintenance (PPM) programs are cost-effective with the ThermoView Ti30 thermal imager, an easy to use, rugged radiometric thermal imager featuring breakthrough performance at an unprecedented price.

Included with ThermoView Ti30 Thermal Imager



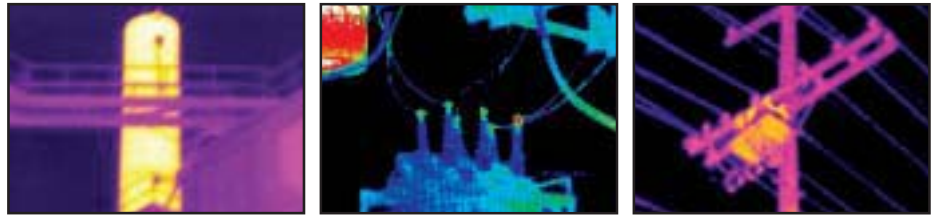
- Interactive User's Manual (CD ROM)
- InSidelR Companion Software
- Docking Station/Charger with Universal Power Adapter
- Hardshell Carrying Case
- USB Computer Cable
- Rechargeable Battery Pack
- Battery Tray (batteries not included)
- Multi-Language Training Materials (CD ROM)
- Carrying Pouch
- Quick Reference Card



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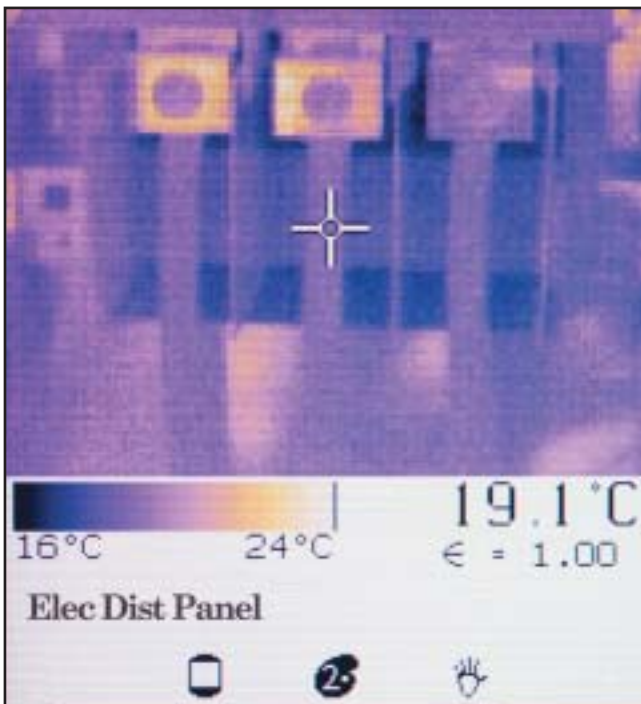
Preventive and Predictive Maintenance Programs



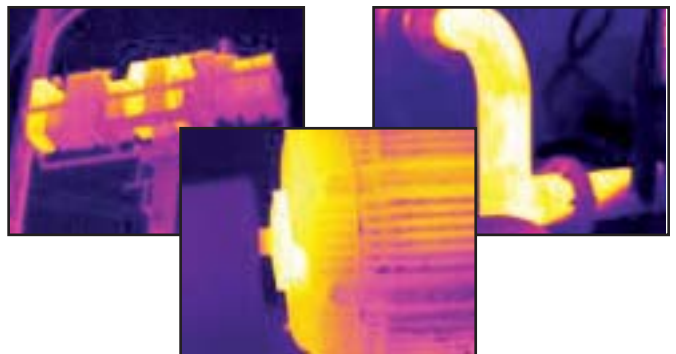
Preventive and predictive maintenance (PPM) programs can greatly minimize repair and labour costs, reduce inventory of parts, and avoid variation in product quality and production loss. Thermal imaging has emerged as an effective predictive maintenance technology by identifying variations that can lead to equipment failure. Gather more complete information with the ThermoView Ti30 thermal imager by assigning unique names and adding valuable comments to measurement locations during maintenance inspections. Download the thermal images and data into InsideIR software for analysis and placement of images and data into follow-up reports. Use the reports to document and assess repair status and to ensure consistent and repeatable measurements.



Recording Radiometric Readings



The ThermoView Ti30 thermal imager displays clear, clean thermal images while automatically recording radiometric readings for complete records. The laser functions as a sighting aid to help pinpoint the target, using a crosshatch at the center of the image to identify the temperature spot. The radiometric readings and accompanying thermal images are shown on the LCD screen for quantitative or qualitative reporting.



Solutions with InsideIR™ Software

ThermoView Ti30 thermal imager includes Windows® based PC application, InsideIR software for thermal analysis and reporting. Set the imager in its docking station to download fully calibrated thermal images in seconds to a PC with a press of a button. Temperature spots, histograms, isotherms, emissivity and reflected temperature compensation are some of the tools built into the software package.



Thumbnail view of downloaded images



Reporting Screen

Training

In addition to all of the great product features that come with the ThermoView Ti30 thermal imager, Raytek also offers training in Basic Thermal Imaging Theory and Applications*. The training is designed to shorten the learning curve typically associated with preventive and predictive maintenance (PPM) programs by providing key information on thermal imaging techniques, electrical and mechanical applications, and guidelines for implementing PPM programs. Included with the imager is an Interactive User's Manual, which provides product information and other valuable resources, such as an infrared theory guide and a primer on predictive maintenance.

* Contact Raytek for more information

Here's how easy

Gain control

Adjust the contrast of the image



Focus Wheel

Focus the unit from 61cm (21 in) to infinity

Trigger

Freeze an image prior to storage or discard frozen image without saving

Lens Cover

Open to turn power ON
Slide shut to turn power OFF

Docking Station

Both a recharging stand and data communications connection



it is...



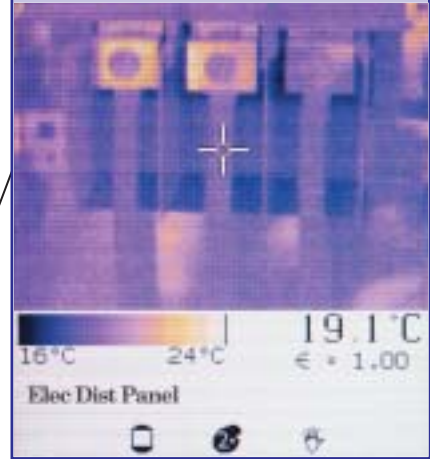
Level control

Adjust the brightness of the image

Switch Bay

Controls for °F or °C, LCD illumination, palette selection, measurement mode, and laser on/off selections

Display



Down Button

Increment parameter values

Mode Button

Cycle between the different operations

Up Button

Decrement parameter values

USB Field Connection

Connect directly to a laptop for easy downloads

Battery Compartment

Rechargeable battery pack or 6 AA batteries



ThermoView Ti30 Specifications and Features

Thermal	Thermal Measurement Range	0 to 250°C (32 to 482°F)
	Accuracy	±2% or ±2°C, whichever is greater at calibration geometry and 25°C
	Repeatability	±1% or ±1°C, whichever is greater
	NETD	250 mK
	Temperature Indication Resolution	0.1 (°F or °C)
Optical/ IR	Spectral Range	7-14 microns
	Target Sighting	Single Laser Dot (Meets IEC Class 2 & FDA Class II requirements)
	Optical Resolution	90:1
	Minimum Diameter Measurement Spot	7mm (0.27") at 60cm (24")
	Image Frame Rate	20Hz
	Field of view (FOV)	17° Horizontal x 12.8° Vertical
Controls	Instantaneous Field of view (IFOV)	1.9mrad
	Focus	Focusable, 61cm (24") to infinity
	Temperature Scale	°C or °F selectable
	Palettes	Gray, Ironbow or Rainbow selectable
	Measurement Modes	Automatic, Semi-Automatic, or Manual selectable
	Laser On/Off	✓
	Gain Control	✓
	Level Control	✓
	LCD Backlight	Bright, Dim, Off selectable
Operational	Adjustable Emissivity * (0.10 to 1.00 by 0.01)	✓
	Liquid Crystal Display	TFT technology—optimized for both indoor and outdoor use
	Reflected Background Temperature	-50 to 460°C (58 to 860°F)
	Ambient Operating Temperature	0 to 50°C (32 to 122°F)
	Relative Humidity	10 to 90% Non-condensing
	Storage Temperature	-25 to 70°C (-13 to 158°F) [without batteries]
	Storage Capacity	100 images
	Laser On Icon	✓
	Low Battery Icon	✓
	Palette Icon	✓
	Measurement Mode Icon	✓
	Thermal Analysis Software	InsidelR (included)
	PC Software Operating Systems	Microsoft® Windows® 98®, Windows 2000®, or Windows XP®
Other Electrical	Power	6 AA batteries (not included) or rechargeable battery pack (included)
	Battery Life	Min. 5 hours continuous use
	Data Transfer	USB interface, total transfer time 30s for 100 pictures
	Storage Device	Flash Memory
	Tripod Mount (6.35 mm (1/4) 20 unc threading)	✓
Accessories/ Options	Weight (includes batteries)	1 kg (2.2 lb)
	Standard Accessories	<ul style="list-style-type: none"> • Multi-language Interactive Manual (CD ROM) • InsidelR Software • Docking Station with Universal Power Adapter and USB Connection • Hardshell Carrying Case • USB Computer Cable • Rechargeable and Non-rechargeable Battery Packs (batteries not included) • Multi-Language Thermography Training Presentation (CD ROM) • Carrying Pouch • Wrist Strap • Quick Reference Card
	Options	NIST Calibration certificate

*For more details, visit www.raytek.com/emissivity.htm

Raytek®

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