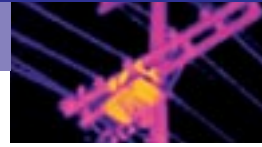# ThermoView™ Ti30

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 thermal imager—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 it's 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. Save images for downloading into companion InsideIR software for qualitative and quantitative thermal imaging analysis and reporting.

1 Record image

2 Download image and data

3 Create and share reports

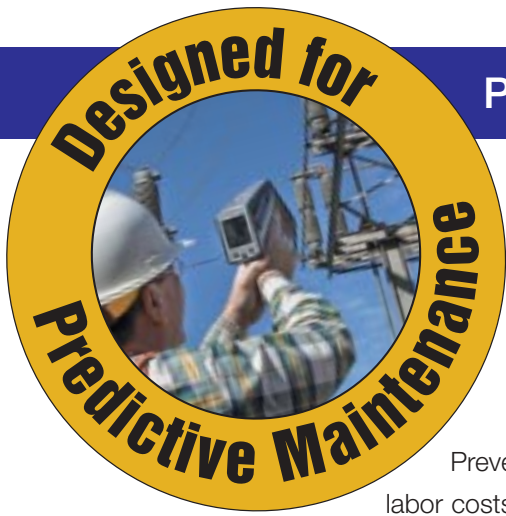**4** Evaluate success of follow-up actions

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.
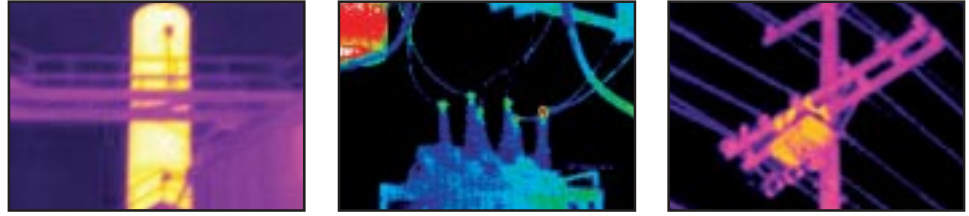
Included with ThermoView Ti30 Thermal Imager

- Interactive User's Manual (CD ROM)
- InsideIR™ Companion Software
- Docking Station/Charger with Universal Power Adapter
- Hardshell Carrying Case
- USB Computer Cable
- Rechargeable Battery Pack
- Non-rechargeable Battery Pack (batteries not included)
- Multi-Language Training Materials (CD ROM)
- Carrying Pouch
- Quick Reference Card
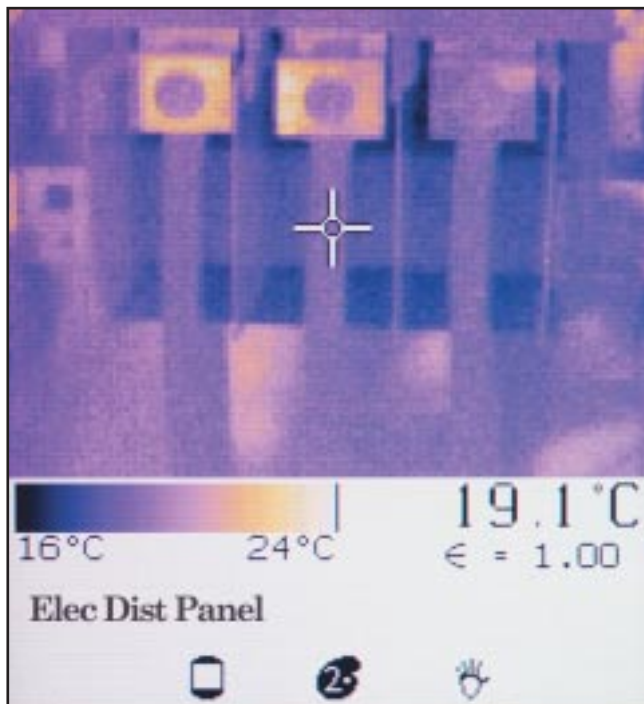
Preventive and Predictive Maintenance Programs

Preventive and predictive maintenance (PPM) programs can greatly minimize repair and labor costs, reduce inventory of pa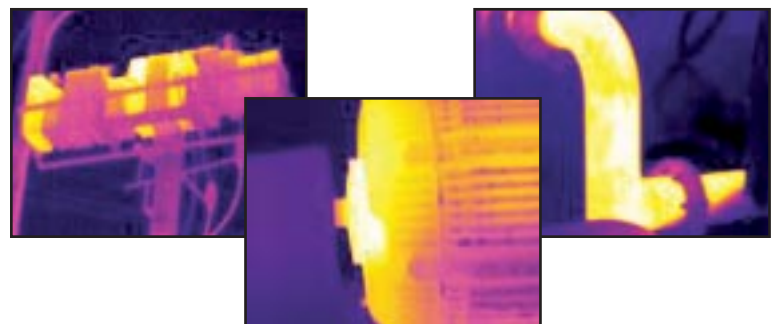rts, and avoid product variation and production loss. Thermal imaging has emerged as an effective predictive maintenance technology by identifying variations that can lead to equipment failure. Start or extend PPM programs with the ThermoView Ti30 thermal imager by assigning unique names and valuable comments to measurement locations while performing the maintenance routines. Download the thermal images and data into InsideIR software to place readings and images in reports for analyzing and follow-up reporting. Assess repair status and results by combining ThermoView Ti30 thermal imager measurements and the InsideIR software reports to ensure consistent and repeatable measurements and documentation.

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 details of the target, using a crosshatch at the center of the image that identifies the temperature spot. The ThermoView Ti30 thermal imager captures the radiometric readings and accompanying thermal images shown on the LCD screen for future quantitative or qualitative reporting.

19.1 °C

16°C   24°C   ε = 1.00

Elec Dist Panel

Solutions with InsideIR™ Software

The ThermoView Ti30 thermal imager includes a 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 with the press of a button. Temperature spots, histograms, isotherms, emissivity and reflected temperature compensation are some of the tools built into the 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 a free two-day training session in Basic Thermal Imaging Theory and Applications with every imager purchase.* 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 predictive maintenance infrared theory, and a primer on predictive maintenance.

One free seat per purchase. Training package may vary by country.

Here's how easy

Gain control
Adjust the contrast of the image

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

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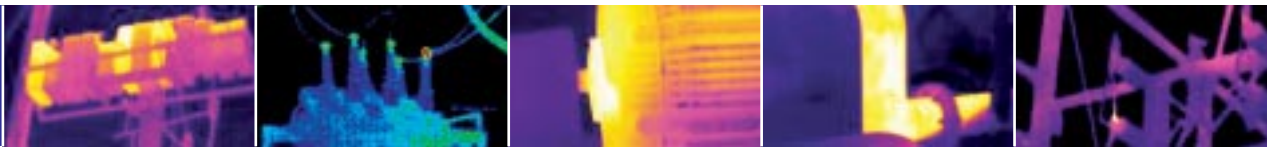Freeze an image prior to storage or discard frozen image without saving

Lens Cover
Open to turn power ON
Slide shut to turn power OFF

Docking Station
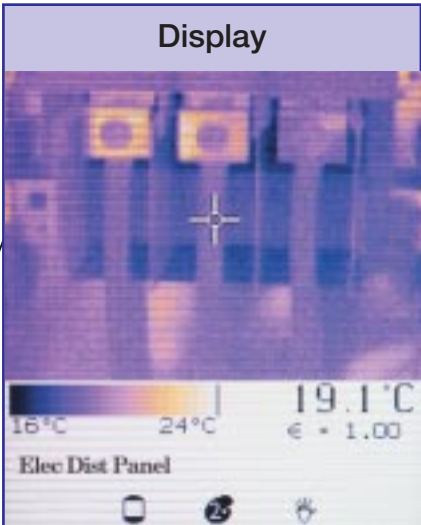Both a recharging stand and data communications connection

Level control

Adjust the brightness
of the image

Switch Bay

Controls for ºF or ºC,
LCD illumination,
palette selection,
measurement mode, and
laser on/off selections

Display

19.1°C
16°C   24°C   € = 1.00
Elec Dist Panel

THERMO VIEW

**USB Field
Connection**

Connect directly
to a laptop for
easy downloads

Down Button

Decrement
parameter values

Mode Button

Cycle between the
different operations

Battery Compartment

Rechargeable
battery pack or 6 AA batteries

Up Button

Increment
parameter values

ThermoView Ti30 Specifications and Features

Thermal	Thermal Measurement Range	0 to 250ºC (32 to 482ºF)
	Accuracy	±2% or ±2ºC, whichever is greater at calibration geometry and 25ºC
	Repeatability	±1% or ±1ºC, whichever is greater
	NETD	250 mK
	Temperature Indication Resolution	0.1 (ºF or ºC)
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)	17º Horizontal x 12.8º Vertical
	Instantaneous Field of view (IFOV)	1.9mrad
Controls	Focus	Focusable, 61cm (24") to infinity
	Temperature Scale	ºC or ºF 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 460ºC (58 to 860ºF)
	Ambient Operating Temperature	0 to 50ºC (32 to 122ºF)
	Relative Humidity	10 to 90% Non-condensing
	Storage Temperature	-25 to 70ºC (-13 to158ºF) [without batteries]
	Storage Capacity	100 images
	Laser On Icon	✔
	Low Battery Icon	✔
	Palette Icon	✔
	Measurement Mode Icon	✔
	Thermal Analysis Software	InsideIR (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 up to 30s for 100 pictures
	Storage Device	Flash Memory
	Tripod Mount (6.35 mm (1/4) 20 unc threading)	✔
	Weight (includes batteries)	1 kg (2.2 lb)
Accessories/ Options	Standard Accessories	• Multi-language Interactive Manual (CD ROM) • InsideIR 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

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for up-to-the-minute features

Raytek is an ISO 9001 certified company

CAUTION

Raytek®