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ThermaCAM™ E45

Affordable infrared camera with analysis capability





- Extremely high thermal sensitivity
- Unparalleled image quality
- Useable in all weather conditions (IP54)
- RECORDS IMAGES AT
 A FRAME RATE OF 50 HZ
- STANDARD JPEG IMAGE STORAGE
 (UP TO 200 IMAGES)
- A wide range of accessories
 And lenses
- Short focus distance
- Compatible with ThermaCAM[™]
 Reporter[™] software
- THERMACAM QUICKVIEW $^{\scriptscriptstyle{\mathsf{TM}}}$ INCLUDED

Infrared troubleshooting in the palm of your hand







ThermaCAM™ E45: Affordable infrared camera with analysis capability

The ThermaCAM E45 is a rugged, ultra-light, easy-to-use infrared camera. It produces fully radiometric images, allowing you to measure the temperature of objects accurately. It captures images at a speed of 50 Hz making it possible to scan moving targets.

The ThermaCAM E45 has been especially developed for the theorem that need instant infrared troubleshooting.

RUGGED, ERGONOMIC AND LIGHTWEIGHT

Dust- and splashproof, the E45 meets IP54 standards and withstands harsh industrial environments. Hold the ThermaCAM E45 in your hand. Clip it to your belt or put it in your toolbox. With a weight of less than 700 grams, the E45 is the lightest infrared camera in the world.

VIEW SENSITIVE THERMAL IMAGES AT REAL-TIME FRAME RATES (50 Hz)

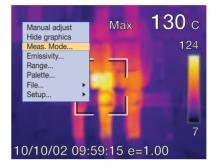
If you really want to detect subtle temperature variations that can signal significant problems on moving targets, you need to capture images at a speed of 50 Hz. Capturing images at a lower frame rate results in a disturbed image so that potential problem spots can be overlooked.

FLEXIBLE JPEG IMAGE STORAGE

The camera stores up to 200 infrared pictures in low density JPEG format, giving you instant visibility of the images stored in the field. Since all images are in JPEG format you can easily share them with your colleagues. There is no need to use special viewing software.

LOCATE AND ANALYZE PROBLEMS FAST

Analyze problems and share results with your colleagues in the field. Movable crosshairs allow you to measure and analyze the temperature at a single point. Find the hottest spot in a defined area, highlight areas of concern with color alarms. The ThermaCAM E45 has the analysis tools you need to make instant decisions.



MOVABLE CROSSHAIR: NOT JUST A FIXED SPOT IN THE MIDDLE

The ThermaCAM E45 produces full temperature measurement capabilities on both live and saved images for each of the 19,200 pixels (120×160 array). A joystick allows to move the crosshairs over the image. A considerable advantage over having just one fixed spot in the middle of the image.

THERMACAM QUICKVIEW™:

BASIC REPORTING SOFTWARE INCLUDED

The ThermaCAM E45 comes with the ThermaCAM QuickView software included. This allows you to do basic post-analysis of your captured IR images and to make simple reports in a PDF-format.

Microsoft Word $^{\scriptscriptstyle (\!\!\!\!)}$ based ThermaCAM Reporter $^{\scriptscriptstyle (\!\!\!\!M\!)}$ software is optionally available.



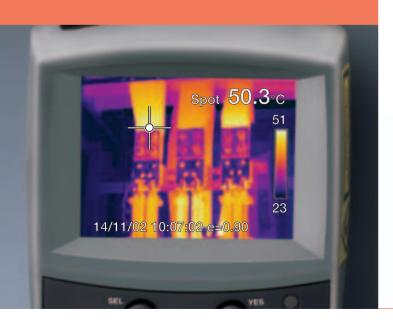


SMART POWER MANAGEMENT

No need to worry about batteries dying and losing valuable inspection time. The lightweight, long-life Li-Ion battery ensures uninterrupted inspections. It runs up to 2 hours and the ThermaCAM[™] E45 features an internal battery charger. A 2-battery charging system is also included. It features a car/truck charger adapter so that you can charge the camera on the way to your next job.

PRECISION TEMPERATURE MEASUREMENT EXTRAORDINARY IMAGE QUALITY

The E45 delivers unmatched temperature measurement accuracy. The result is a thermal sensitivity of 0.10°C and clear, noise-free, excellent quality images, displayed on the camera's 2.5" colour LCD.



PINPOINT PROBLEMS SAFE AND WITH PRECISION WITH THE LOCATIRTM

The built-in Laser LocatIR[™] quickly helps you to associate a hot spot on the IR image with the real physical target. This greatly enhances user safety by eliminating the tendency to 'finger point' at problems in low- and high-voltage environments.



EASY OPERATION

At the touch of a button you can easily change colour palettes, emissivity settings, temperature ranges and other analysis tools. Built-in menu systems provide easy access to advanced yet simple to use software.

A WIDE RANGE OF ACCESSORIES

When doing predictive maintenance inspections, you might end up in situations where you do not have the room to step back. A wide angle range is than the perfect solution. When you are looking at objects which are a distance away you

can use a telephoto lens. To ensure perfect images on the LCD display in direct sunlight a sunshield is available.





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TECHNICAL SPECIFICATIONS

IMAGING PERFORMANCE Field of view/min focus distance Thermal sensitivity Image frequency Focus Detector type Spectral range Optical resolution (with 36 mm lens)	Typical 19° x 14°/0.3 m (with 17 mm lens) 0.10°C at 30°C 50/60 Hz non-interlaced Manual Focal Plane Array (FPA), uncooled microbolometer 160 x 120 pixels 7.5 to 13 µm 300:1
IMAGE PRESENTATION Video output External display	PAL or NTSC, standard RCA composite video 2.5" color LCD, 16K colors
MEASUREMENT Temperature range Accuracy Repeatability Measurement mode Menu controls Set-up controls Measurement corrections	-20°C to +250°C (-4°F to +482°F) up to +900°C optional ±2°C, ±2% ±1°C, ±1% Movable spot, area max, area min, area average, isotherm Palettes (iron, rainbow, B&W, B&W inverse), auto-adjust (continuous/manual) Date/fime, temperature units °C/°F, language, scale, info field, LCD intensity (high/normal/low) Emissivity variable from 0.1 to 1.0, reflected ambient
IMAGE STORAGE Type File formats	Built-in FLASH memory (up to 200 images) Standard JPEG
LENSES (OPTIONAL) 2 x Telescope 0.5 Wide angle 0,25 Wide angle	Typical 9° x 7°/1,2 m (with 36 mm lens) Typical 34° x 25°/0,1 m (with 9 mm lens) Typical 60 x 45°/0,1 m (with 4,5 mm lens)
LASER LOCATIR™ Classification Type	Class 2 Semiconductor AlGaInP Diode Laser: 1mW/635 nm red
BATTERY SYSTEM Type Operating time Charging system AC operation Voltage Power saving	Li-lon, rechargeable, field replaceable 2 hours continuous operation. Display shows battery status In camera, AC adapter or 12 V from car (with optional Std. cable) 2 bay intelligent charger, 12 V AC adapter 90-260 V AC, 50/60 Hz, 12 V DC out 11-16 V DC Automatic shutdown and sleep mode (user selectable)
ENVIRONMENTAL SPECIFICATION Operating temperature range Storage temperature range Humidity Encapsulation Shock Vibration	-15°C to +45°C (+5°F to +113°F) -40°C to +70°C (-40°F to +158°F) Operating and storage 20% to 80%, non-condensing IP54, IEC 359 Operational: 25G, IEC 68-2-29 Operational: 2G, IEC 68-2-6
PHYSICAL CHARACTERISTICS Weight Size Tripod Mounting Cover case	700 g (1.5 lbs.), incl. battery with 17mm lens 265 mm x 80 mm x 105 mm (10.4" x 3.1" x 4.1") 1/4" - 20 Plastic and rubber
INTERFACES USB RS-232 cable (optional) Video output	Image transfer to PC Image transfer to PC standard RCA composite video
THERMACAM E45 INCLUDES: IR camera, Carrying case, Power supply, Handstrap, Lens cap, ThermaCAM QuickView™ Software,	

IR camera, Carrying case, Power supply, Handstrap, Lens cap, The USB cable, User manual, Power cord, Battery (2), Battery charger Lens cap, ThermaCAM QuickView[™] Software,