

# ThermaCAM™ E25

## Low-cost infrared camera ideal for electrical inspections

The ThermaCAM E25 is an ultra-light and easy-to-use infrared camera. It enables users to detect problems quickly before failures occur. Extremely affordable and fitting into the palm of your hand, the E25 offers thermal imaging for fast and easy infrared inspections.

The full radiometric ThermaCAM E25 opens the door to new applications for infrared thermography, and for the use of more than one infrared camera in predictive maintenance departments.



- EXTREMELY AFFORDABLE
- ACCURATE TEMPERATURE MEASUREMENT
- ULTRA-COMPACT
- HIGH-QUALITY THERMAL IMAGES
- CAPTURES IMAGES AT 50 Hz
- LARGE, SUPER-BRIGHT 2.5" LCD DISPLAY
- BUILT-IN LASER LOCATIR™ POINTER
- EASY TO OPERATE
- STORES UP TO 100 IMAGES
- THERMACAM QUICKVIEW™ INCLUDED

### LOCATE PROBLEMS FAST

Locate faults in electrical systems quickly, and view thermal images on the 2.5" color LCD. Highlight areas of concern, analyze problems and share results with your colleagues in the field.

### RUGGED, ERGONOMIC AND LIGHTWEIGHT

Hold the ThermaCAM E25 in your hand. Clip it to your belt or put it in your toolbox. With a weight of less than 700 grams, the E25 is the lightest infrared camera in the world. Dust- and splashproof, the E25 meets IP54 standards and withstands harsh industrial environments.

### PINPOINT PROBLEMS WITH PRECISION

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.

### SMART POWER MANAGEMENT

The lightweight, long-life Li-Ion battery ensures uninterrupted inspections. The ThermaCAM E25 includes an internal battery charger and a car/truck charger adapter so that you can charge the camera on the way to your next job.

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

The maintenance-free state-of-the-art uncooled FPA microbolometer detector produces highly temperature-sensitive thermal images. These allow you to detect subtle temperature variations that can signal significant problems.

Capturing thermal images at a speed of 50 Hz allows you to scan moving targets. Something that cannot be done by line scanners or 'snapshot' type camera systems.

### INSTANT NON-CONTACT TEMPERATURE MEASUREMENT

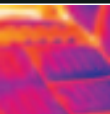
The ThermaCAM E25 is fully radiometric. It allows you to measure the temperature of the object you are looking at in a non-contact mode. Now you can determine the true operating conditions of your electrical, mechanical, chemical,... targets safely and accurately. You will clearly see the difference between components that can compromise plant safety and those operating normally.

### LASER LOCATIR™

The LocatIR, a built-in laserpointer, helps you to associate the hot spot you see on the imager with the real physical target in the field.

### THERMACAM QUICKVIEW SOFTWARE INCLUDED

The ThermaCAM E25 stores up to 100 images in radiometric JPEG format and comes standard with the ThermaCAM QuickView software for basic post-analysis of captured images.



# TECHNICAL SPECIFICATIONS

## IMAGING PERFORMANCE

Thermal sensitivity	0.20°C at 30°C
Image frequency	50/60 Hz non-interlaced
Focus	Manual
Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	160 x 120 pixels 7.5 to 13µm

## IMAGE PRESENTATION

Video output	PAL or NTSC, standard RCA composite video
External display	2.5" color LCD, 16K colors

## MEASUREMENT

Temperature range	-20°C to +250°C, (-4°F to +482°F) up to +900°C optional
Accuracy	±2°C, ±2%
Measurement mode	Fixed spot in the middle of the image
Menu controls	Palettes (iron,rainbow, B&W, B&W invers), auto-adjust (continuous/manual)
Set-up controls	Date/time, temperature units °C/°F, language, scale, info field, LCD intensity (high/normal/low)
Measurement corrections	Emissivity variable from 0.1 to 1.0, reflected ambient

## IMAGE STORAGE

Type	Built-in FLASH memory (up to 100 images)
File formats	Standard JPEG

## LENSES

Universal	Typical 19° x 14°/0.3 m (with 17 mm lens)
2 x Telescope	Typical 9° x 7°/1.2 m (with 36 mm lens)
0.5 Wide angle	Typical 34° x 25°/0.1 m (with 9 mm lens)
	Thermacam E25 is supplied with one of the following lenses: 9mm, 17mm or 36mm. Lenses are not interchangeable and must be specified at time of order

## LASER LOCATIR™

Classification	Class 2
Type	Semiconductor AlGaInP Diode Laser: 1mW/635 nm red

## BATTERY SYSTEM

Type	Li-Ion, rechargeable, field replaceable
Operating time	2 hours continuous operation. Display shows battery status
Charging system	in camera, AC adapter or 12 V from car (with optional Std. cable.) Optional: 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)
AC operation	
Voltage	
Power saving	

## ENVIRONMENTAL SPECIFICATION

Operating temperature range	-15°C to +45°C (5°F to 113°F)
Storage temperature range	-40°C to +70°C (-40°F to 158°F)
Humidity	Operating and storage 20% to 80%, non-condensing IP 54 IEC 529
Encapsulation	Operational: 25G, IEC 68-2-29
Shock	Operational: 2G, IEC 68-2-6
Vibration	

## PHYSICAL CHARACTERISTICS

Weight	0.7 kg (1.5 lbs.), incl. Battery
Size	265mm x 80mm x 105mm (10.4"x3.1"x4.1")
Tripod mounting	1/4" – 20
Cover case	Plastic and rubber

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