



- Accurate Temperature Measurement
- Weighs Only 1.5 lbs.
- Interchangeable Optics
- Built-in Laser LocatIR™

- Robust Post-Processing Capabilities
- Easy-view Color LCD
- JPEG Image Storage
- Highly Affordable

Find Problems Fast

Unlike other cameras, you can use the powerful, affordable E45 in all types of harsh industrial environments to find faults in electrical and mechanical systems quickly and accurately. Store up to 200 thermal images inside the camera for post-processing and analysis on the camera or after downloading to a PC.

Most Accurate Temperature Measurement

The E45 is the most accurate lightweight, handheld IR camera on the market today. The E45 sees temperature differences as small as 0.1° C and provides 19,000 picture elements in each image.

Lightweight, Rugged & Ergonomic

The E45 is built tough for hard work in the field and in all weather conditions and industrial environments — a critical design capability. Dust and splash proof, the E45 meets IP 54 standards. Unlike other cameras that might be "lab calibrated," the E45 won't seize-up in freezing cold, extreme heat or other harsh conditions. Its exclusive Ambient Temperature Compensation (ATC) technology assures accuracy under the most challenging ambient temperature conditions.

Download and Document

Download thermal images with measurements to your PC quickly with ThermaCAM QuickView[™] software and standard USB or serial cables. ThermaCAM Reporter software enables automatic report generation, capturing thermal images and text, and seamlessly integrating with standard word processing programs.

Flexible JPEG Image Storage with Post Processing

Store and recall up to 200 calibrated thermal images using the camera's on-board memory. The E45's radiometric JPEG image format allows you to go back to any image at any time to add and move spots, measure temperatures, and perform analysis you may have missed in the field.

View Sensitive Thermal Images

A maintenance-free, state-of-the-art uncooled FPA infrared detector produces crisp thermal images that reveal subtle temperature variations that can signal electro-mechanical problems. The E45 can detect problems before they become critical, helping you increase safety, reduce production downtime, and eliminate potential fires.

Pinpoint Problems with Precision

The built-in Laser LocatIR™ projects a bright red dot on the target that enables you to associate the IR image with the real physical target. This feature greatly enhances worker safety by eliminating the tendency to "finger point" at problems in potentially hazardous electrical environments.

Interchangeable Optics

Many targets in your facility cannot be imaged or measured properly without the proper optics. Optional lenses are available for the E45 to meet your application needs. A telescope lens is ideal for inspecting distant targets such as overhead power lines. A wide angle lens can more than double the standard field-of-view for evaluating large objects from a short distance, such as roofs and electrical panels.

Smart Power Management

Lightweight, longlife Li-lon batteries assure uninterrupted inspections. The E45 includes an external 2-bay battery charger and an internal battery charger. A 12 VDC car/truck charger adapter is also available.

ThermaCAM® E45 Technical Specifications

maging Performance		
ield of view/min focus distance	Interchangeable; 19° x 14° / 0.3 m, 9° x 7° / 1.2m or 34° x 25° / 0.1m	
hermal sensitivity	0.1° C at 25° C	
Detector type	Focal plane array (FPA) uncooled microbolometer 160 x 120 pixels	
pectral range	7.5 to 13μm	
mage Presentation		
Display	Color LCD, 320 x 240 pixels in IR image	
mage Controls	Palettes (Iron, Rainbow, B/W, B/W inv), Level, Span Auto adjust (continuous/manual)	
Measurement		
emperature ranges	-20° C to +250° C (-4° F to +482° F) (standard) +250° C to +900° C (+482° F to +1,652° F) (optional)	
Accuracy	\pm 2° C or \pm 2% of absolute temperature in ° C	
Measurement modes	1 movable spot, area max, area min, area average, color alarm above or below	
et-up controls	$\label{eq:continuity} Date/time, Temperature units °C/°F, Language (English, Spanish), Scale, Info field, LCD intensity (high/normal/low)$	
Measurement corrections	Reflected ambient. Automatic, based on user-input	
mage Storage		
Pigital storage functions	Freeze, Standard Calibrated JPEG images, Delete all images, Delete image, Open	
mage storage capacity	Approx. 200 Calibrated JPEG Images with image gallery	
aser LocatIR ™		
lassification	Class 2	
ype	Semiconductor AlGainP Diode Laser: 1mW/635 nm (red)	
ower Source		
attery type	Li-lon; rechargeable, field replaceable	
attery operating time	2 hours. Display shows battery status	
attery charging	In camera (AC adapter or 12V from car) or 2 bay intelligent charger	
C operation	In camera, AC adapter or 12V from car with optional 12V cable. 2 bay intelligent charger included.	
/oltage	11-16VDC	
ower saving	Automatic shutdown and sleep mode (user-selectable)	
nvironmental		
perating temperature range	-15° C to +50° C (+5° F to 122° F)	
torage temperature range	-40° C to +70° C (-40° F to 158° F)	
umidity	Operating and storage 20% to 80%, non-condensing, IEC 359	
Vater and dust resistant (encapsulation)	IP 54	
hock	25G, IEC 68-2-29	
/ibration	2G, IEC 68-2-6	
Physical Characteristics		
Veight	< 1.5 lbs. (0.7 kg) including battery (with standard lens)	
iize (L x W x H)	258mm x 80mm x 105mm (10.2" x 3.2"" x 4.1")	
Color	Titanium grey	

Camera includes:		
IR camera with built-in Laser LocatIR™		
Ruggedized transport case		
Power supply and cord		
Hand strap		
Lens cap		
ThermaCAM® QuickView™ software		
USB cable		
Video-out cable		
User manual		
Battery (2)		
2-Bay battery charger		
Training CD		
Interchangeable lenses (optional)		
2X Telescope (9° X 7° / 1.2m)		
0.5X Wide angle (34° X 25° / 0.1m)		
Interfaces		
IrDA	Two-way data transfer from laptop, PDA	





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www.flirthermography.com/E45data