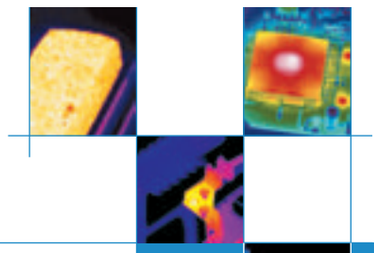
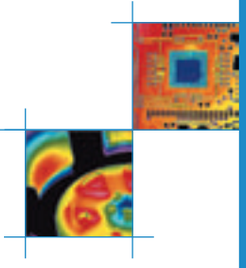


ThermaCAM™ P25

High performance, affordable infrared camera with basic analysis capability

The ThermaCAM P25 is a rugged, compact and affordable infrared camera. It produces fully radiometric images, allowing you to measure the temperature of objects in a non-contact mode. The ThermaCAM P25 captures images at a speed of 50 Hz making it possible to scan moving targets. Lightweight and portable, the ThermaCAM P25 detects, verifies and documents a wide range of predictive maintenance problems.

- **High quality thermal images (320x240 pixels)**
- **Accurate temperature measurement capabilities: one fixed spot in the middle of the image**
- **Rugged (IP54), lightweight and portable**
- **Ergonomic carrying handle**
- **Integrated Laser locatIR**
- **Flexible JPEG image storage**
- **Integrated software available for producing professional inspection reports**
- **Affordable and upgradeable solution**



Precision temperature measurement and extraordinary image quality

A state-of-the-art uncooled microbolometer allows you to measure temperature differences as small as 0.08°C. It produces outstanding noise-free, high resolution images (320x240 pixels) offering more than 76,000 individual measurement points per image at a refresh rate of 50/60 Hz.

Locate problems quickly and accurately

View thermal images in the high-resolution viewfinder. Optional optics, including telescopic and wide angle lenses, make the ThermaCAM P25 a good choice for the most demanding applications.

Integrated Laser LocatIR

The integrated Laser LocatIR , activaed at the touch of a button, helps you to safely and quickly associate a hot spot shown on the IR image with the real physical target in the field.

Easy-to-operate

Conveniently placed buttons and a joystick control all the features of the camera. Functions like autofocus, freezing and storing images are just a button away.

Ergonomic carrying handle

The ThermaCAM P25 comes standard with an ergonomic handle to carry the camera around. This handle can optionally be equipped with an LCD screen, with remote control buttons, which makes the P25 even more flexible.

LCD data panel

An LCD screen gives you continuous information about the status of specific camera functions. It provides you with information on battery usage, storage capacity, communication status and more.

Easy connectivity for downloading and documenting

Enhanced connectivity options for high-speed image transfer include USB digital link and standard RS-232 connections.

Flexible JPEG image storage

The ThermaCAM P25 saves images as fully radiometric JPEGs. These images are stored on a removable FLASH PC card (128 MB).

Automated report generation

Full radiometric images can easily be downloaded and integrated in the new ThermaCAM Reporter™ software, allowing you to do post-analysis and to create professional inspection reports easily.

Basic solution

The ThermaCAM P25 offers you full non-contact measurement and basic analysis capability. It is upgradeable to the full-featured ThermaCAM P65.

TECHNICAL SPECIFICATIONS

IMAGING PERFORMANCE	
Field of view/min focus distance	24°x18° /0.3 m (with 35 mm lens)
Spatial resolution (IFOV)	1.3 mrad
Thermal sensitivity	0.08°C at 30°C
Image frequency	50/60 Hz non-interlaced
Focus	Automatic or manual
Electronic zoom function	2,4 interpolating
Detector type	Focal Plane Array (FPA), uncooled microbolometer 320 x 240 pixels
Spectral range	7.5 to 13µm
Digital image enhancement	Standard
IMAGE PRESENTATION	
Video output	RS170 EIA/NTSC or CCIR/PAL composite video
Viewfinder	Built-in, high-resolution color LCD (TFT)
MEASUREMENT	
Temperature range	-40°C to +500°C, (-40°F to +932°F) Up to +1000°C, optional
Accuracy	±2°C, ±2% of reading
Measurement mode	1 fixed spot in the middle of the image
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperatureand relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.1 to 1.0
Reflected ambient temperature correction	Automatic, based on input of reflected temperature
External optics/window correction	Automatic, based on input of optics/window transmission and temperature
IMAGE STORAGE	
Type	Removable Flash-card (128 MB)
File formats	Standard JPEG, 14 bit measurement data included
LENSES (OPTIONAL)	
Field of view/min focus distance	7°x5.3°/4 m (with 122 mm lens) 12°x 9°/1.2 m (with 71 mm lens) 45°x 34°/0.1 m (with 18 mm lens) 80°x 60°/0.1 m (with 9 mm lens) 200µm close-up (64 mm x 48 mm/150 mm) 100µm close-up (34 mm x 25 mm/80 mm) 50µm close-up (15 mm x 11 mm/19 mm)
Lens identification	Automatic
SYSTEM STATUS INDICATOR	
LCD Display	Shows status of battery and storage media. Indication of power, communication and storage modes
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
Charging system	in camera (AC adapter or 12 V from car) or 2 bay intelligent charger
External power operation	AC adapter 110/220 V AC, 50/60 Hz or 12 V from car (cable with Std plug: optional)
Power saving	Automatic shutdown and sleep mode (user selectable)
ENVIRONMENTAL SPECIFICATION	
Operating temperature range	-15°C to +50°C (5°F to 122°F)
Storage temperature range	-40°C to +70°C (-40°F to 158°F)
Humidity	Operating and storage 10% to 95%, non-condensing
Encapsulation	IP 54 IEC 529
Shock	Operational: 25G, IEC 68-2-29
Vibration	Operational: 2G, IEC 68-2-6
PHYSICAL CHARACTERISTICS	
Weight	1.7 kg incl. Battery
Size	100mm x 120mm x 220mm (camera body)
Tripod mounting	1/4" – 20
INTERFACES	
USB / RS-232	Image, measurement transfer to PC

Equipped with the optionally available LCD display, with remote control buttons, the P25 becoms even more flexible.

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