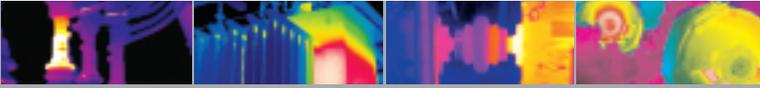




The Global Leader in Infrared Cameras

ThermaCAM® P25

INFRARED CAMERA



The ThermaCAM® P25 is a refined infrared inspection system. Its powerful new features and conveniences enable the professional thermographer to work with unprecedented efficiency and productivity. Working in concert with ThermaCAM reporting and database software, the P25 greatly facilitates the process of collecting, reporting, and archiving infrared images and thermal data.



- > Outstanding Thermal Image Quality
- > High Thermal Sensitivity
- > Digital 4:1 Zoom
- > Radiometric JPEG Image Storage
- > Precise Temperature Measurement with Fixed Target Spot
- > Automatic Temperature Span Adjustment
- > Removable CompactFlash® Memory
- > Includes ThermaCAM® QuickView™ Software

Extraordinary Thermal Sensitivity and Imaging Quality

A thermal sensitivity of 0.08°C lets you see the smallest temperature differences clearly. The P25 is ready for action in seconds, thanks to its state-of-the-art 320 x 240 uncooled microbolometer detector. A total of 76,000 pixels provide real-time, crisp, high-resolution 16-bit thermal images.

Crisp, Real-time Imaging

Video rate imaging (60 Hz) allows you to inspect fast moving objects and scan while moving without image smear. The built-in color viewfinder provides bright, crisp images under virtually all conditions. The fixed crosshair target spot is intuitive and easy to use.

Easy to Operate

Ergonomic, intuitive controls make operation seamless and efficient. User-friendly joystick, familiar menus, and soft control buttons on the camera body provide easy one-handed operation.

Rugged and Lightweight

The P25 was designed for use in harsh environments. It has an IP54 industrial shock rating and complete environmental encapsulation. At only 3 lbs. including battery, it is the lightest full-featured infrared camera available.

Flexible Image Storage

Images can be stored in Windows-friendly JPEG format on a removable CompactFlash® memory card. The image gallery feature allows you to browse through thumbnails and select the image you need quickly and easily.

Special Features Boost Your Efficiency

Powerful auto-spanning capability saves time and effort. The P25 automatically indicates the temperature of the target spot in the fixed crosshairs.

Wide Range of Accessories

Optional optics range from microscopic through wide-angle and telescopic to meet diverse applications requirements. Innovative, miniature wearable infrared heads-up displays (IR-HUD) are available, which can augment situational awareness. Lightweight, longlife Li-Ion batteries assure uninterrupted inspections. The P25 comes with an external 2-bay battery charger and an internal battery charger. A 12 VDC car/truck charger adapter is also available.

Optional Software Does the Work for You!

ThermaCAM Reporter reporting and analysis software reduces the task of creating great-looking reports to simple drag-and-drop. ThermaCAM Database software enables you to trend, archive, and organize inspection data and reports quickly and easily. ThermaCAM Image Builder knits multiple IR images together to create a single radiometric composite.

Upgradeability

Designed to grow with your thermal imaging needs, the P25 is upgradeable to intermediate P45 or the world leading ThermaCAM P65 automated IR inspection system specifications.

ThermaCAM® P25 Technical Specifications

Imaging Performance	
Field of view/min focus distance	24° x 18° / 0.3 m
Spatial resolution (IFOV)	1.3 mrad
Thermal sensitivity @ 50/60Hz	0.08° C at 30° C
Electronic zoom function	2.4, interpolating
Focus	Automatic temperature span adjustment
Digital image enhancement	Normal and enhanced
Detector type	Focal plane array (FPA) uncooled microbolometer; 320 x 240 pixels
Spectral range	7.5 to 13 µm
Image Presentation	
Viewfinder	Built-in high-resolution color LCD (TFT)
External display (optional)	Built-in high-resolution color LCD (TFT) with redundant controls
Video output	RS 170 EIA/NTSC or CCIR/PAL
Measurement	
Temperature ranges	-40° C to +120° C (-40° F to +248° F) 0° C to +500° C (+32° F to 932° F) Up to +1000° C (+1832° F), optional
Accuracy (% of reading)	± 2° C or ± 2%
Measurement modes	Fixed spot in center of image
Emissivity correction	Variable from 0.1 to 1.0 or select from listings in pre-defined material list
Measurement features	Automatic corrections based on user input for reflected ambient temperature, distance, relative humidity, atmospheric transmission, and external optics
Optics transmission correction	Automatic, based on signals from internal sensors
Image Storage	
Type	Removable CompactFlash® (128 MB) memory card
File format	Standard JPEG; 14 bit thermal measurement data included
System Status Indicator	
LCD display	Shows status of battery and storage media. Indication of power, communication and storage modes.
Power Source	
Battery type	Li-Ion, rechargeable, field-replaceable
Battery operating time	2 hours continuous operation
Charging system	In camera (AC adapter or 12V from car) or 2 bay intelligent charger
External power operation	AC adapter 110/220 VAC, 50/60Hz or 12V from car (cable with standard plug optional)
Power saving	Automatic shutdown and sleep mode (user-selectable)
Environmental	
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	1.4 kg (3 lbs) w/battery
Size	100mm x 120mm x 220 mm (3.9" x 4.7" x 8.7")
Tripod mounting	1/4" - 20

ThermaCAM P25 System Includes:	
IR camera	
Carrying case, lens cap, shoulder strap, hand strap	
Manual (multi-lingual)	
Batteries (2)	
Power supply	
Battery charger	
Video cable with RCA plug	
USB cable	
128 MB CompactFlash® card	
ThermaCAM QuickView™ software	
Interchangeable lenses (optional)	
Field of view/ minimum focus distance	3X Telescope (7° x 5.3°/4m) 2X Telescope (12° X 9°/1.2m) 0.5X Wide angle (45° x 34°/0.1m) 0.3X Wide angle (80° x 60°/0.1m) 200 µm Close-up (64mm x 48mm/150mm) 100 µm Close-up (34mm x 25mm/80mm) 50 µm Close-up (15mm x 11mm/19mm) Wearable Optics/Heads-up Display
Interfaces	
USB / RS232	Image, measurement data, voice and text transfer to PC



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www.flirthermography.com/P25data

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