



# FLIR T425

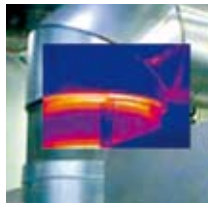
Infrared Camera with Picture in Picture and Thermal Fusion

The T-Series' top of the line model T425 offers an outstanding solution for professional thermographers conducting electrical and mechanical inspections. The camera measures temperatures up to 1200°C and is jammed with useful features such as Instant Reports, periodic storage and digital camera video recording.

- 50 mK thermal sensitivity
- IR resolution 320 x 240 pixels
- Digital camera, 3.1 Mp with LED lights
- Temperature range -20 °C to +1200 °C
- 8x digital zoom
- Periodic Storage
- Panorama support
- Instant Reports
- MeterLink™



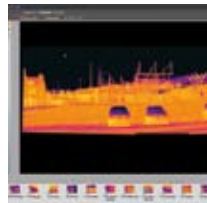
Multifunction 3.5" Touch Screen



Picture in Picture (PiP)



120° lens rotation



Panorama support



## FLIR T425 Features

- **High Resolution IR Images** — 320 x 240 pixels infrared resolution, NETD 50 mK
- **Digital Camera** — 3.1 Megapixels with built-in LED lights provides sharp images regardless of lighting conditions
- **Wide Temperature Range** — Measures from -20 °C to +1200 °C targeting electrical and industrial applications
- **Zoom** — 8x continuous digital zoom for capturing small details
- **Picture in Picture (PiP)** — Displays resizable IR image super-imposed over a digital image
- **Thermal Fusion** — Merging visual and infrared images, allows for easier identification and interpretation of infrared images
- **Laser Pointer** — Pinpoints the hot spot on the IR image with the real physical target
- **Annotations** — Add text & sketch comments and image markers via touch screen. Record voice comments via Bluetooth wireless headset
- **± 2% Accuracy** — Reliable temperature measurement
- **Thumbnail Image Gallery** — Allows quick search of stored images
- **MeterLink™** — Wirelessly transmit data from clamp or moisture meter to your infrared camera
- **Delta Temperature** — Automatic calculation of temperature difference between two measurement tools
- **Panorama** — Take sequential images and combine to large image with FLIR BuildIR SW
- **Periodic Storage** — Store images automatically at preset intervals
- **Instant Reports** — Create instant report directly in camera, easily copy report to USB
- **Copy to USB** — Upload images and measurement findings to USB stick
- **IR Window Auto-Correction** — Automatic sensitivity adjustment when inspecting high voltage through safety IR windows
- **Li-Ion Rechargeable Battery** — Replaceable battery lasts > 4 hours of continuous use
- **Interchangeable Optics** — Standard 25° lens and optional 6°, 15°, 45°, 90° and close up lenses
- **Standard SD Card** — Stores more than 1000 radiometric JPEG images
- **Includes** — SD Memory Card, Li-Ion rechargeable battery with 100-260V AC adaptor/charger, 2-bay battery charger, QuickReport software, USB Mini-B cable, video cable, sun shield, calibration certificate, stylus pen & headset, camera lens cap, and transport case



METER LINK  
Bluetooth

### What is MeterLink™?

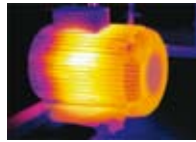
MeterLink displays and documents readings from your Extech moisture- or clamp meter directly on your infrared image using Bluetooth wireless connection.

MeterLink, a FLIR industry-first technology, will: greatly improve your diagnostics, save time annotating readings, eliminate data errors, and add more customer value to your reports.

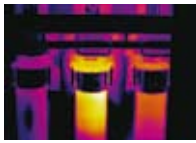
# Applications



Motor: Bearing Problem



Motor: Internal Winding Problem



Electrical: Hot Fuses

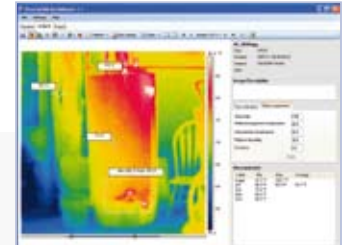


Building: Heat Loss



## FLIR T425 Specifications

Imaging and optical data	
Field of view (FOV)	25° × 19° / 0.4 m
Thermal sensitivity/NETD	< 0.05°C @ +30°C / 50 mK
Image frequency	9Hz, or 30Hz (export license required)
Focus	Manual/Automatic
Zoom	1–8x continuous, digital zoom, including panning
Spectral range	7.5–13 μm
IR resolution	320 × 240 pixels
Image presentation	
Display	Built-in touch screen, 3.5" color LCD
Image modes	IR image, visual image, MPEG4 video, thermal fusion, picture in picture, thumbnail gallery
Thermal Fusion	IR image shown above, below or within temp interval on visual image
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	–20°C to +120°C 0°C to +350°C +200°C to +1200°C
Accuracy	±2°C or ±2% of reading
Measurement analysis	
Spotmeter	5
Area	5 boxes with max./min./average
Isotherm	Detect high/low temperature/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Measurement function alarm	Audible/visual alarms (above/below) on spotmeters, boxes and difference temperature
Screening	Difference temperature alarm, audible
Set-up	
Color palettes	BW, BW inv, Iron, Rain, RainHC, Bluered
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images; simultaneous storage of IR and visual images; MPEG-4 non-radiometric video
Periodic image storage	Every 10 seconds up to 24 hours
Panorama	For creating panorama images in FLIR BuildIR software
Video recording and streaming	
Radiometric IR-video streaming	Full dynamic to PC using USB
Non-radiometric IR-video streaming	MPEG-4 to PC using USB
Image annotations	
Voice	60 seconds
Text	Text from predefined list or soft keyboard on touch screen
Image marker	4 on IR or visual image
Sketch	From touch screen
MeterLink	Connect Extech Clamp Meter EX845/Moisture Meter M0297 via Bluetooth®
Digital camera	
Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and LED lights
Digital camera video recording	Video clip to memory card
Physical data	
Camera weight, incl. battery	0.88 kg
Camera size (L × W × H)	106 × 201 × 125 mm



### Optional Software

- FLIR Reporter™**  
 A powerful yet easy-to-use tool to generate comprehensive and professional infrared inspection reports.
- FLIR QuickPlot™ and ResearchIR**  
 A software designs for entry to mid-level R&D application that helps to visualize thermal patterns

### Accessories

- Pouch
- Extra battery
- Battery charger
- Car charger
- Selection of lenses



### Training

FLIR cooperates with Infrared Training Centre, an independent, ISO certified, worldwide training facility. ITC offers infrared training, certifications accepted by many standardization organizations, and specialized instruction in various application areas. For more info visit [www.infraredtraining.com](http://www.infraredtraining.com)

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