FLIR T420 & T440

High performance infrared camera with on-board visual camera, touch screen, Wi-Fi connectivity, & interchangeable lens, plus MSX® image enhancement & auto orientation

Get maximum flexibility and efficiency out of 320 x 240 thermal imaging from our new T400 line.

Superior thermal imaging – *Sharp thermal resolution at 76,800 pixels for solid accuracy from farther away.*

MSX® enhancement – *Multi-Spectral Dynamic imaging adds visible spectrum definition to IR images in real time for excellent thermal detail to help you instantly recognize the problem locations.*

Advanced optics – *The widest array of lens options to fit the view and spot size you need for your application.*

Compass – *Adds camera pointing direction to every image for additional location documentation.*

Wi-Fi connectivity – *Send images and data to smart phones and tablets (ie. iPhone®, iPad®, iPod touch®, or Android™) to share images and critical information quickly using FLIR Tools Mobile app.*

Accurate temperature measurements – *Accuracy calibrated within +/– 2°C or +/– 2% of reading.*

Temperature range – *measuring up to 1200°C (2192°F) targeting electrical and industrial applications (T440 model).*

Scalable P-i-P – *Overlay thermal images onto visible light photos as an alternative reference.*

METERLiNK® – *Wirelessly transmit vital diagnostic data from clamp and moisture meters directly to the camera for annotating thermal images to further support findings.*
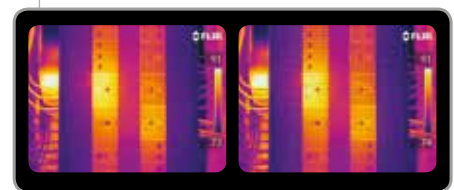
Annotation – *Add voice comments via Bluetooth headset and text notes from the touchscreen keypad; New! T440 has image sketch feature to add circles and pointers on IR/visual stored images.*

Auto orientation – *Automatically orients onscreen temperature measurement data whether in portrait or landscape view.*

Includes – *SD Memory card, 100-260V AC adaptor/charger, two Li-Ion rechargeable batteries, 2-bay battery charger, power supply (with multi-plugs), FLIR Tools software, USB cable, video cable, sun shield, Bluetooth® headset, lens cap, neckstrap, and hard case.*

Wi-Fi connectivity

Original IR Image on the left and with MSX™ Enhancement on the right image

Built-in 3.1MP digital camera, LED lamp, laser pointer, fine focus adjust, and auto focus & image capture button. 120° rotating lens with 8X continuous zoom
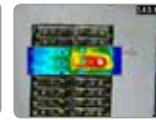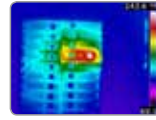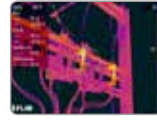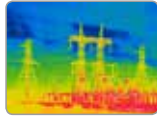
Wireless METERLiNK® communication via Bluetooth®

Auto orientation keeps on-screen data upright

Applications

Utility Market — Utilities worldwide use infrared cameras to locate problems or to detect hot spots and other problems before they turn into costly failures and production downtime or dangerous electrical fires.

Electrical Inspections — With FLIR thermal imaging cameras electrical contractors can scan electrical cabinets/panels and components for a non-contact view of conditions.

Imaging specifications

FEATURES	FLIR T420	FLIR T440
Temperature range	-20°C to 650°C (-4°F to 1202°F)	-20°C to 1200°C (-4°F to 2192°F)
Zoom	4X continuous	8X continuous
LCD image sketch	—	Draw on stored images right on touchscreen
Multi-Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation	IR image with enhanced detail presentation
Measurement presets	7 presets: center spot; hot spot (box max); cold spot (box min); 3 spots; hot spot - spot (box max + spot + delta); hot spot - temperature (box max + ref temp + delta); no measurements	6 presets: center spot; hot spot (box max); cold spot (box min); no measurements; user preset 1; user preset 2
Profile measurement analysis	—	Shows a live graph of temperatures across a line profile on the image
COMMON FEATURES		
Frame rate	60Hz	
Field of view/minimum focus distance/FOV match	25° x 19° / 0.4m / Field of View match where digital image FOV adapts to the IR lens	
Focus	Manual/automatic	
Thermal sensitivity (N.E.T.D)	<0.045°C at 30°C	
Detector type - Focal plane array (FPA) uncooled microbolometer	320 x 240 pixels	
Spectral range	7.5 to 13µm	
Compass	Adds camera pointing direction to each image	
Display	Built-in touch-screen 3.5" color LCD	
Image modes	Thermal/Visual/P-i-P (Resizable and movable)/MSX and Thumbnail Gallery	
Image storage	1000 radiometric JPEG images (SD card memory)	
Image annotation	Voice (60 sec); text comments, Sketch, image markers on IR	
Periodic image storage	7 seconds to 24 hours (IR) and 14 seconds to 24 hours (IR and visual)	
Lens	25° (optional 6°, 15°, 45°, 90°, Close up 100µm, 50µm lenses available)	
Video lamp	Bright LED lamp	
Laser pointer classification/type	Class 2/Semiconductor AlGaInP Diode laser: 1mW/635nm (red)	
Set-up controls	Mode selector, color palettes, configure info to be shown in image, local adaptation of units, language, date and time formats, and image gallery	
Measurement modes	5 spotmeters, 5 box areas, isotherm, auto hot/cold spot, delta T	
Measurement correction	Reflected ambient temperature & emissivity correction	
Video recording in-camera and video streaming	Non-radiometric IR-video recording (MPEG-4 to memory card), Radiometric IR-video streaming (Full dynamic to PC using USB or Wi-Fi), and Non-radiometric IR-video streaming (MPEG-4 using Wi-Fi and uncompressed colorized video using USB)	
Instant report	Create a thermographic Inspection report directly in the camera	
Battery type/operating time	Li-Ion/ >4 hours, display shows battery status	
Charging system	In camera AC adapter/2 bay charging system	
Shock/vibration	25G, IEC 60068-2-29 / 2G, IEC 60068-2-6	
Dimensions/weight	106x201x125mm/0.88kg, including battery	

Ordering information

2 YEAR FULL PRODUCT WARRANTY*

10 YEAR DETECTOR WARRANTY*

After product registration on www.flir.com

ACCESSORIES

1196961 .... IR lens, f = 30 mm, 15° incl. case
1196960 .... IR lens, f = 10 mm, 45° incl. case
T197215 ....Close-up 4× (100 µm) incl. case
T197214 .... Close-up 2× (50 µm) incl. case
T197408 .... IR lens, 76 mm (6°) with case and mounting support
T197412 .... IR lens, 4 mm (90°) with case and mounting support
1196398 .... Battery

T197667 .... Battery package
T197650 .... 2-bay battery charger, incl. power supply with multi plugs
T910750 .... Power supply, incl. multi plugs
T911230ACC . Memory card SDHC 4 GB
1910423 .... USB cable Std A <-> Mini-B
T198509 .... Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
1910582ACC . Video cable

T198370.........Hard transport case
T198495 .... Pouch for FLIR T4xx series
T198493 .... Sun shield
T198499 .... Neck strap
T197771ACC .. Bluetooth Headset
T198583 .... FLIR Tools+ (license only)
T911093 .... Tool belt

◆ **FLIR**®

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NASDAQ: FLIR