FLIR T420bx & T440bx

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 T400bx 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 650°C (1202°F) targeting insulation, HVAC, and building applications (T440bx model).*

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

Humidity, dew Point, & insulation alarms – *Alerts user when it detects moisture intrusion and insulation issues.*

METERLiNK® – *Wirelessly transmit vital diagnostic data from clamp and moisture meters directly to the camera for annotating thermal images to further support findings.*
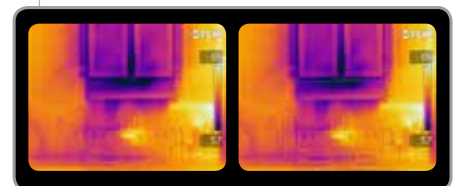
Annotation – *Add voice comments via Bluetooth headset and text notes from the touchscreen keypad; New! T440bx has image sketch feature to add circles and pointers on IR/visual stored images.*

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.*
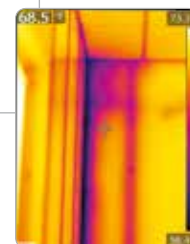
Wi-Fi connectivity

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
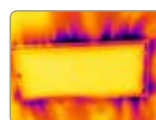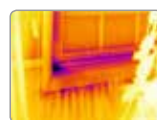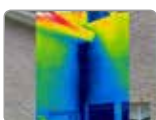
Wireless METERLiNK® communication via Bluetooth®

Auto orientation keeps on-screen data upright

Applications

Water damage — Water leak on ceiling, gutter, & roof top

Insulation — Energy loss, home inspection, and HVAC

Imaging specifications

FEATURES	FLIR T420bx	FLIR T440bx
Temperature range	-20°C to 350°C (-4°F to 662°F)	-20°C to 650°C (-4°F to 1202°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	
Alarm alerts	1 humidity alert, 1 dew point alert, and insulation alert	
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

62101-0501 .... FLIR T420bx Thermal Imaging InfraRed Camera (320x240)
62101-0701 .... FLIR T440bx Thermal Imaging InfraRed Camera (320x240)

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®

FLIR Commercial Systems
Luxemburgstraat 2
2321 Meer
Belgium
Tel. : +32 (0) 3665 5100
Fax : +32 (0) 3303 5624
E-mail : flir@flir.com

Distribuito da:
Zetalab s.r.l.

Zetalab.it
strumenti scientifici & laboratorio

Via Castelfidardo, 11 - 35141 Padova
Tel 049 2021144 - Fax 049 2021143
www.zetalab.it - e-mail: info@zetalab.it

www.flir.com
NASDAQ: FLIR