

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 $+/-2^{\circ}C$ or $+/-2^{\circ}M$ 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.

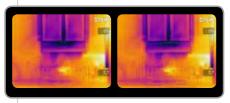
Annotation – Add voice comments via Bluetooth headset and text notes from the touchscreen keypad; New! T440bx has image sketch feature to add circles and pointers on IR/visual stored images.

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-lon 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



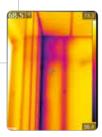
Original IR image on the left and with MSX $^{\text{TM}}$ enhancement on the right image



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 AlGalnP 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-lon/ >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

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





ACCESSORIES

1196961 IR lens, f = 30 mm, 15° incl. case 1196960 IR lens, f = 10 mm, 45° incl. case **T197215**Close-up 4x (100 μ m) incl. case T197214 Close-up 2x (150 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



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