FLIR T420bx & T440bx

High Performance Infrared Camera With on-board Visual Camera, Thermal Fusion, Touch Screen, Wi-Fi Connectivity, & Interchangeable Lens, Plus MSX™ Image Enhancement & FOV Match

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*

New! MSX™ Enhancement – *Multi-Spectral Dynamic Imaging adds visible spectrum definition to IR images in real time for extraordinary thermal detail that instantly highlights and orients problem locations (T440bx only)*

New! Field of View (FOV) Match – *Now you have the option to automatically match the visible camera field of view to the IR FOV for better documentation*

New! Compass – *Adds camera pointing direction to every image for additional location documentation (T440bx only)*

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

Scalable P-i-P and Thermal Fusion – *Blend thermal with visible light images on-screen; includes picture-in-picture window sizing*

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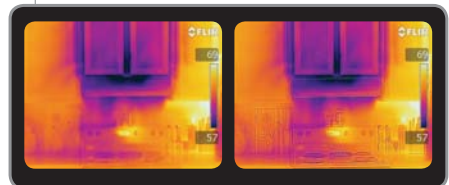
Annotation – *Add voice comments via Bluetooth headset and text notes from the touchscreen keypad; New! T440bx has image sketch feature to draw circles and pointers on IR/Visual stored images*

InstantReport – *Create PDF document directly from the camera*

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 (available on T440bx model)

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
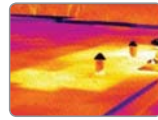
Thermal Fusion is an Infrared image shown above, below or within temperature interval blended onto a digital image
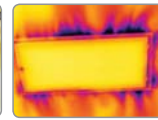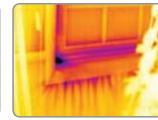
Wireless METERLiNK® Communication via Bluetooth®

◆FLIR®

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	-4°F to 662°F (-20°C to 350°C)	-4°F to 1202°F (-20°C to 650°C)
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
Measurement Presets	—	Presets for standard measurements
Profile Measurement Analysis	—	Shows a live graph of temperatures across a line profile on the image
Compass	—	Adds camera pointing direction to each image
COMMON FEATURES		
Frame Rate	60Hz	
Field of view/Minimum focus distance/FOV Match	25° x 19° / 1.31ft (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	
Display	Built-in touch-screen 3.5" color LCD	
Image modes	Thermal/Visual/Fusion/P-i-P 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 100, 50µm lenses available)	
Video Lamp	Bright LED lamp	
Laser 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	4.2x7.9x4.9" (106x201x125mm)/1.94lbs (0.88kg), including battery	
2-5-10 Warranty	When the camera is registered within 60 days: 2 years on Parts/Labor for the Camera; 5 years of Coverage on Batteries; 10 years of Protection on the IR Detector	

Ordering Information

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

ACCESSORIES
1196398..Li-Ion Rechargeable Battery
1910490 ....Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)
T197650..2-Bay Battery Charger including Power Supply (multi plugs)
T911048 ....Camera Pouch Case
T197717 ....FLIR Reporter Professional
4114887...FLIR ThermaTrak™

CERTIFICATION TRAINING
ITC LEVEL I ....ITC Level I Certification Training per attendee

5-10-2 Protection

10-Year Detector
Protection
5-Year Battery
2-Year Parts & Labor

EXTECH ®
INSTRUMENTS
A FLIR COMPANY

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