

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®



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



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



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