



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 (i.e. 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 – 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.

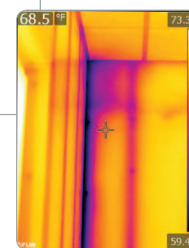
Includes – SD Memory Card, 100-260V AC adaptor/charger, two Li-Ion rechargeable batteries, 2-bay battery charger, power supply (with multi-plugs), FLIR Tools software, USB cable, video cable, sun shield, Bluetooth[®] headset, lens cap, neckstrap, and hard case.



Wi-Fi Connectivity



Original IR Image on the Left and with MSX[™] Enhancement on the Right image



Auto Orientation Keeps On-Screen Data Upright

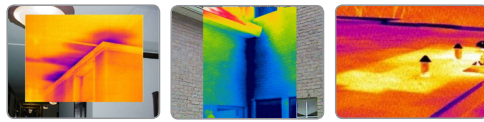


Built-in 3.1MP Digital Camera, LED Lamp, Laser Pointer, Fine Focus Adjust, and Auto focus & Image Capture Button. 120° Rotating Lens with 8X Continuous Zoom

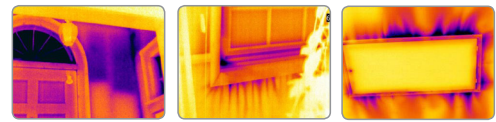


Wireless METERLiNK[®] Communication via Bluetooth[®]

Applications



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



Energy Loss — Missing Insulation, Air Leaks, HVAC Issues

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	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° / 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	
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	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

62103-1501..... FLIR T420bx Thermal Imaging InfraRed Camera (320x240)
 62103-1701..... 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)
 T198495..... Camera Pouch Case
 T198583..... FLIR Tools+ (Scratchcard) 2 Users

CERTIFICATION TRAINING

3300149..... ITC Level I Certification Training per attendee



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