

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°

FLIR T420bx 25° and 45° w/case

P/N: 62103-1504

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Website

http://www.flir.com

Customer support

http://support.flir.com

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General description

The FLIR T420bx is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T420bx a truly user-friendly camera for the beginner or advanced user.

Benefits:

- Excellent ergonomics: The FLIR T420bx has a tiltable infrared unit and auto-orientation, which
 make it easy to capture images from any angle comfortably. The small size and low weight of the
 camera facilitate its use over a full working day.
- Affordable performance: The FLIR T420bx is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. You can highlight objects of interest, on both the infrared and the visual image, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T420bx allows you to connect
 to smart phones or tablets, for the wireless transfer of images or the remote control of the camera.
 The Bluetooth-based METERLINK function transfers readings from external measurement
 instruments to the infrared image.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into FLIR Tools.

Imaging and optical data	
IR resolution	320 × 240 pixels
MSX resolution	320 × 240 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<30 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Digital zoom	2x and 4x



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Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
Detector pitch	25 μm
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Auto orientation	Automatic landscape or portrait
Image adjustment	Auto or manual
Image presentation modes	
Thermal MSX	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	 -20°C to +120°C (-4°F to +248°F) 0°C to +350°C (+32°F to +662°F)
Accuracy	$\pm 2^{\circ}\text{C }(\pm 3.6^{\circ}\text{F}) \text{ or } 2\%, \text{ whichever is greater, at } 25^{\circ}\text{C }(77^{\circ}\text{F}) \text{ nominal.}$
Measurement analysis	
Spotmeter	5
Area	5 + 5 areas (boxes or circles) with max./min./ average (in post-acquisition analysis)
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, 3 spots, Hotspot-spot, Hotspot-temperature
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external IR window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black hot, Arctic, Lava
Alarm	
Color Alarm (isotherm)	Above/below/interval
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible
Humidity alarm	1 humidity alarm, including dew point alarm
Trainially dialiff	· · · · · · · · · · · · · · · · · · ·



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Set-up commands Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information Service functions Camera software update Use PC software FLIR Tools Storage of images Image storage Standard JPEG, including digital photo and measurement data, on memory card Image storage mode Simultaneous storage of thermal and digital photo in same JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as separate JPEG file Optional to store digital photo as separate JPEG file Optional to store digital photo as separate JPEG file Optional to store digital photo as separate IPEG file Optional to store digital photo as separate IPEG file Optional to store digital photo as separate IPEG file Optional to store digital photo as separate IPEG file Optional to store digital photo as separate IPEG file Optional to store digital camera - Optional to store digital photo as separate IPEG file Optional to store digital photo and measurement IPEG file Optional to store digital photo as separate IPEG file Optional to store digital photo and measurement IPEG file Optional to store digital photo and measurement IPEG file Optional to store digital photo and measurement IPEG file Optional to		
Service functions Camera software update Use PC software FLIR Tools Storage of images Image storage Image storage Image storage mode Image storage mode Simultaneous storage of thermal and digital photo and measurement data, on memory card or photo in same JPEG file. Optional to store digital photo as a separate JPEG file. Optional to store digital photo as a separate JPEG file. Time lapse Is seconds to 24 hours Image annotations (in still images) Voice 60 seconds (via Bluetooth) stored with the image or create your own in FLIR Tools Image description Add table. Select between predefined templates or create your own in FLIR Tools Image description Add short note (stored in JPEG EXIF tag) Wireless connection (Bluetooth) to: FLIR meters with METERLINK Report generation Instant Report (*, pdf file) in camera including IR and visual images Separate PC software with extensive report generation Geographic Information System Compass Camera direction automatically added to every still image Video recording in camera Non-radiometric IR video recording MPEG-4 to memory card Visual video recording MPEG-4 to memory card Video streaming Radiometric IR video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi. Non-radiometric IR video streaming - MPEG-4 using Wi-Fi. - Uncompressed colorized video using USB Visual video streaming Non-radiometric IR video streaming MPEG-4 using Wi-Fi. - Uncompressed colorized video using USB Digital camera Built-in digital camera Built-in digital camera Molity in digital camera The port (*, pdf file) in camera including IR and visual video using USB	Set-up	
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Storage of images Standard JPEG, including digital photo and measurement data, on memory card	Service functions	
Image storage Standard JPEG, including digital photo and measurement data, on memory card - Simultaneous storage of thermal and digital photo in same JPEG file Optional to store digital photo as a separate JPEG file Optional to store digital photo as a separate JPEG file. Time lapse 15 seconds to 24 hours Image annotations (in still images) Voice 60 seconds (via Bluetooth) stored with the image Add table, Select between predefined templates or create your own in FLIR Tools Image description Add short note (stored in JPEG EXIF tag) METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Report generation Instant Report (*.pdf file) in camera including IR and visual images - Separate PC software with extensive report generation Geographic Information System Compass Camera direction automatically added to every still image Video recording in camera Non-radiometric IR video recording MPEG-4 to memory card Visual video recording Video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi. Non-radiometric IR video streaming MPEG-4 using Wi-Fi. Non-radiometric IR video streaming MPEG-4 using Wi-Fi. Uncompressed colorized video using USB Visual video streaming MPEG-4 using Wi-Fi Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Camera software update	Use PC software FLIR Tools
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Image annotations (in still images) Voice	Image storage mode	photo in same JPEG file. Optional to store digital photo as a separate
Voice Go seconds (via Bluetooth) stored with the image Add table. Select between predefined templates or create your own in FLIR Tools Image description Add short note (stored in JPEG EXIF tag) METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Report generation Instant Report (*,pdf file) in camera including IR and visual images Separate PC software with extensive report generation Geographic Information System Compass Camera direction automatically added to every still image Video recording in camera Non-radiometric IR video recording MPEG-4 to memory card Video streaming Radiometric IR video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi Uncompressed colorized video using USB Visual video streaming MPEG-4 using Wi-Fi Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Time lapse	15 seconds to 24 hours
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or create your own in FLIR Tools Image description Add short note (stored in JPEG EXIF tag) METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK Report generation • Instant Report (*.pdf file) in camera including IR and visual images • Separate PC software with extensive report generation Geographic Information System Compass Camera direction automatically added to every still image Video recording in camera Non-radiometric IR video recording MPEG-4 to memory card Video streaming Radiometric IR video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi. Non-radiometric IR video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Visual video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Voice	60 seconds (via Bluetooth) stored with the image
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Report generation Instant Report (*.pdf file) in camera including IR and visual images Separate PC software with extensive report generation Camera direction automatically added to every still image Video recording in camera Non-radiometric IR video recording MPEG-4 to memory card Video streaming Radiometric IR video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi. Non-radiometric IR video streaming MPEG-4 using Wi-Fi Uncompressed colorized video using USB Visual video streaming MPEG-4 using Wi-Fi Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	METERLINK	Wireless connection (Bluetooth) to:
Camera direction automatically added to every still image		FLIR meters with METERLINK
Compass Camera direction automatically added to every still image Video recording in camera Non-radiometric IR video recording MPEG-4 to memory card Visual video recording MPEG-4 to memory card Video streaming Radiometric IR video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi. Non-radiometric IR video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Visual video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Report generation	IR and visual images • Separate PC software with extensive report
Video recording in camera Non-radiometric IR video recording Visual video recording MPEG-4 to memory card Video streaming Radiometric IR video streaming Full dynamic to PC using USB or to mobile devices using Wi-Fi. Non-radiometric IR video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Visual video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Geographic Information System	
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devices using Wi-Fi. Non-radiometric IR video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Visual video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Video streaming	
Visual video streaming • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB • MPEG-4 using Wi-Fi • Uncompressed colorized video using USB Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Radiometric IR video streaming	,
Digital camera Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Non-radiometric IR video streaming	· ·
Built-in digital camera 3.1 Mpixels with LED light (photo as separate image)	Visual video streaming	
image)	Digital camera	
Digital camera, focus Fixed focus	Built-in digital camera	
	Digital camera, focus	Fixed focus



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Digital camera	
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°
Digital camera, aspect ratio	4:3
Laser pointer	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
Laser classification	Class 2
Laser type	Semiconductor AlGaInP diode laser
Laser power	1 mW
Laser wavelength	635 nm (red)
Data communication interfaces	
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
SD Card	One card slot for removable SD memory cards
USB	
USB	USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC / uncompressed colorized video
USB, standard	USB Mini-B: 2.0
Composite video	
Video out	Composite
Video, standard	CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
Video, connector type	4-pole 3.5 mm jack
Radio	
Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max. output power: 15 dBm
METERLiNK/Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal
Power system	
Battery type	Rechargeable Li ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Power system	
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25° C to +40°C (+77°F to +104°F) / 2 cycles
EMC	 ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission)

Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25° C to +40°C (+77°F to +104°F) / 2 cycles
EMC	 ETSI EN 301 489-1 (radio) ETSI EN 301 489-17 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 B (Emission) ICES-003
Radio spectrum	ETSI EN 300 328FCC Part 15.247RSS-210
Magnetic fields	EN 61 000-4-8, Test level 5 for continuous field (severe industrial environment)
Encapsulation	IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1

Physical data	
Camera weight, incl. battery	0.855 kg (1.88 lb.)
Camera size $(L \times W \times H)$	$106 \times 201 \times 125$ mm (4.2 \times 7.9 \times 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC 1/4"-20 (adapter needed)
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Graphite gray and black

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FLIR T420bx 25° and 45° w/case

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Shipping information	
Packaging, type	Cardboard box
List of contents	Infrared camera with lens Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate Hard transport case IR lens, f = 10 mm, 45° Memory card Neckstrap Power supply, incl. multi-plugs Printed documentation Sunshield USB cable Video cable
EAN-13	7332558012161
UPC-12	845188013264
Country of origin	Sweden

Supplies & 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 for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C (+2192°F)
- T910814; Power supply, incl. multi plugs
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- T199361ACC; Battery Li-ion 7.2 V, 2.2 Ah, 16 Wh
- 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
- T198370ACC; Hard transport case for FLIR T/B2xx-4xx
- T198495; Pouch for FLIR T6xx and T4xx series
- 1124545; Pouch
- T198493; Sun shield
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)



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- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; FLIR ResearchIR Max 4 (printed license key)
- T199043; FLIR ResearchIR Max 4 Upgrade (printed license key)
- T198731; FLIR ResearchIR Standard 4 (hardware sec. dev.)
- T199012; FLIR ResearchIR Standard 4 (printed license key)
- T199042; FLIR ResearchIR Standard 4 Upgrade (printed license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

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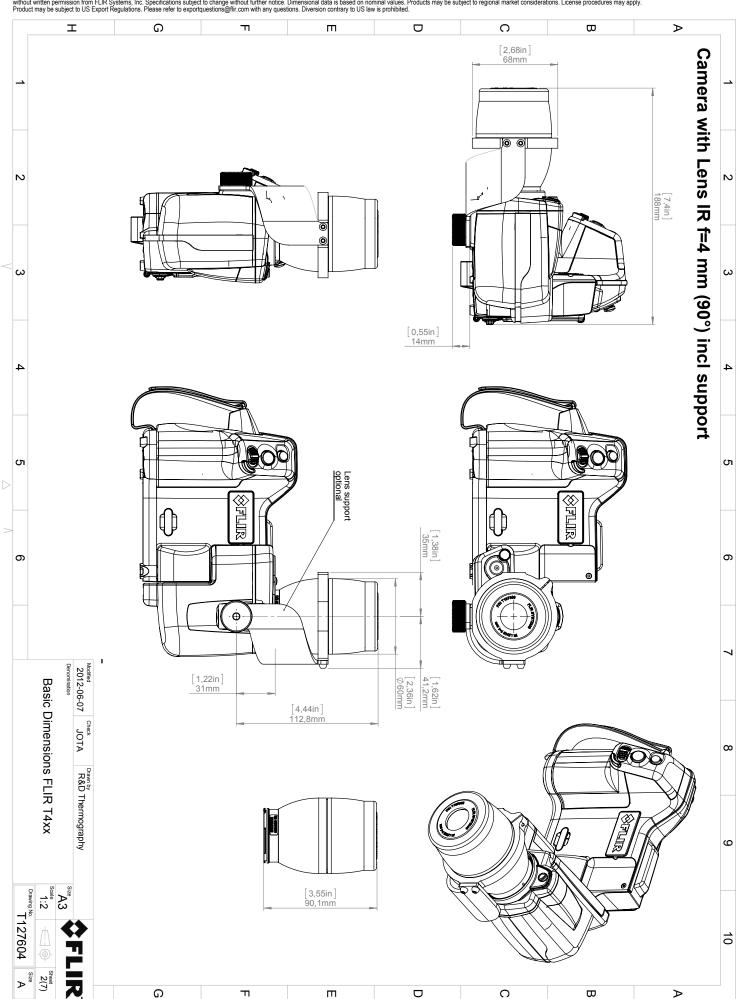
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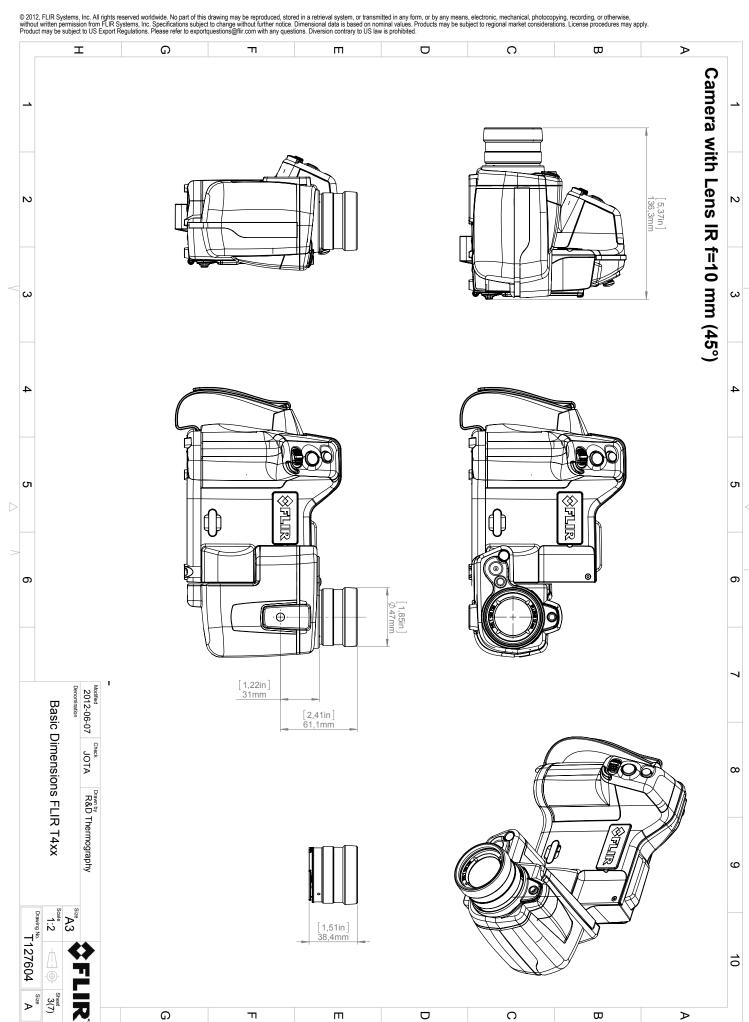
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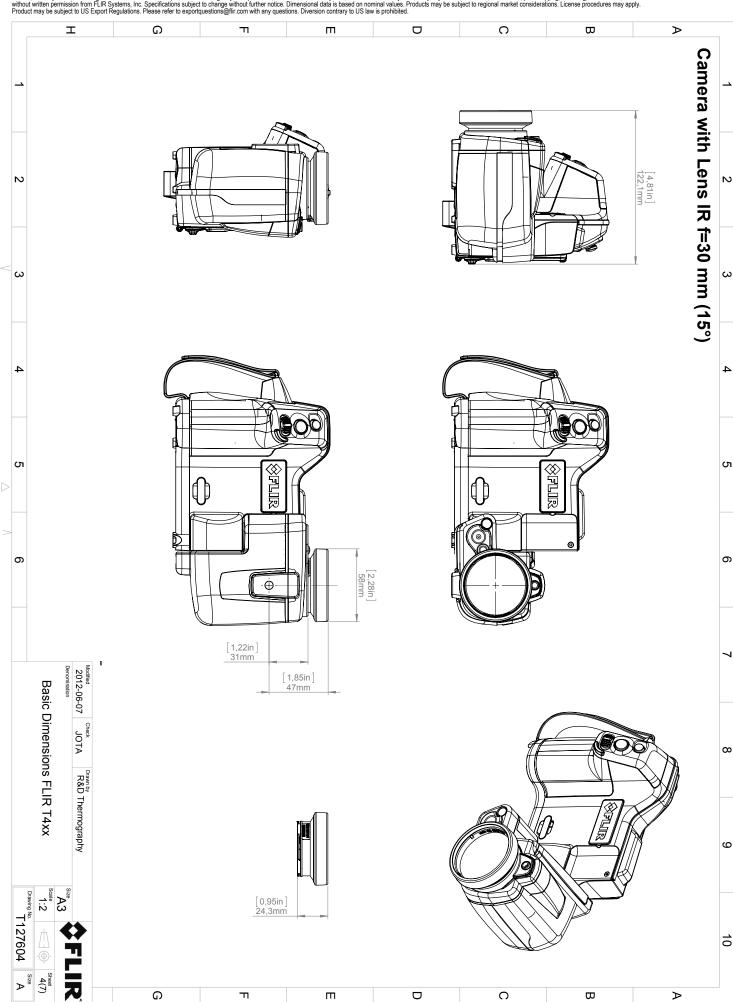
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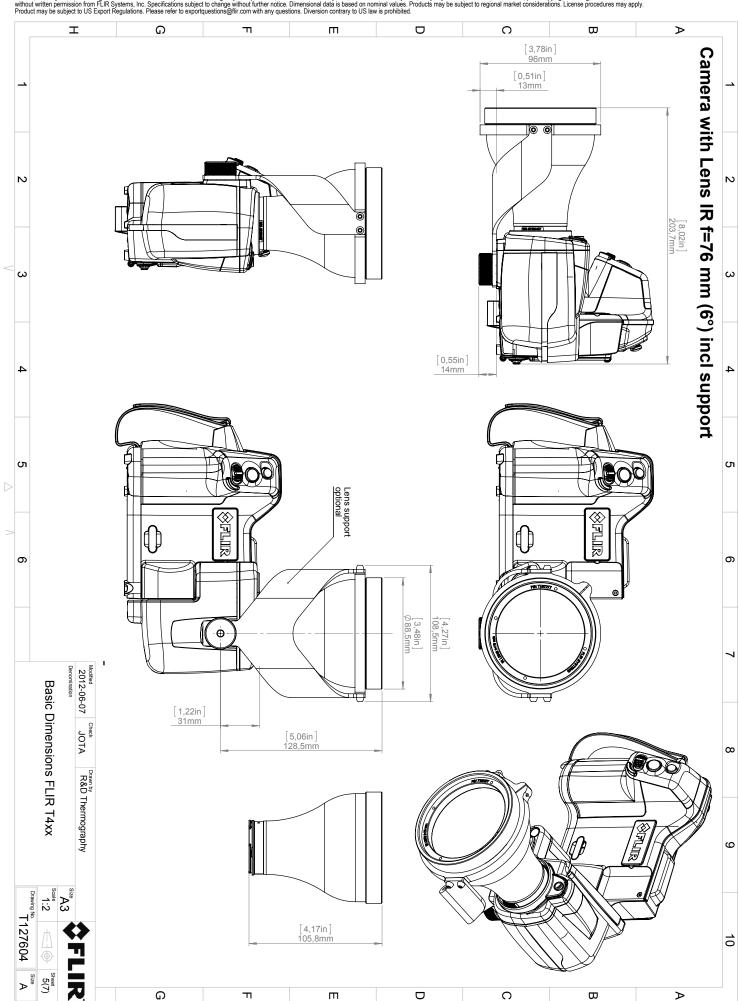
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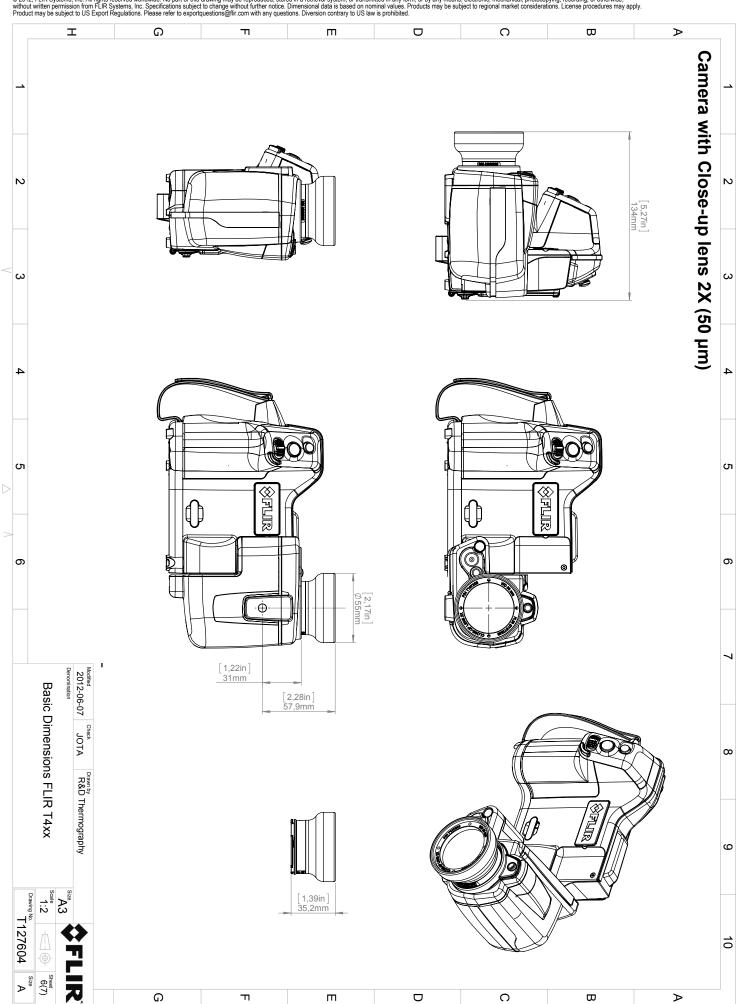


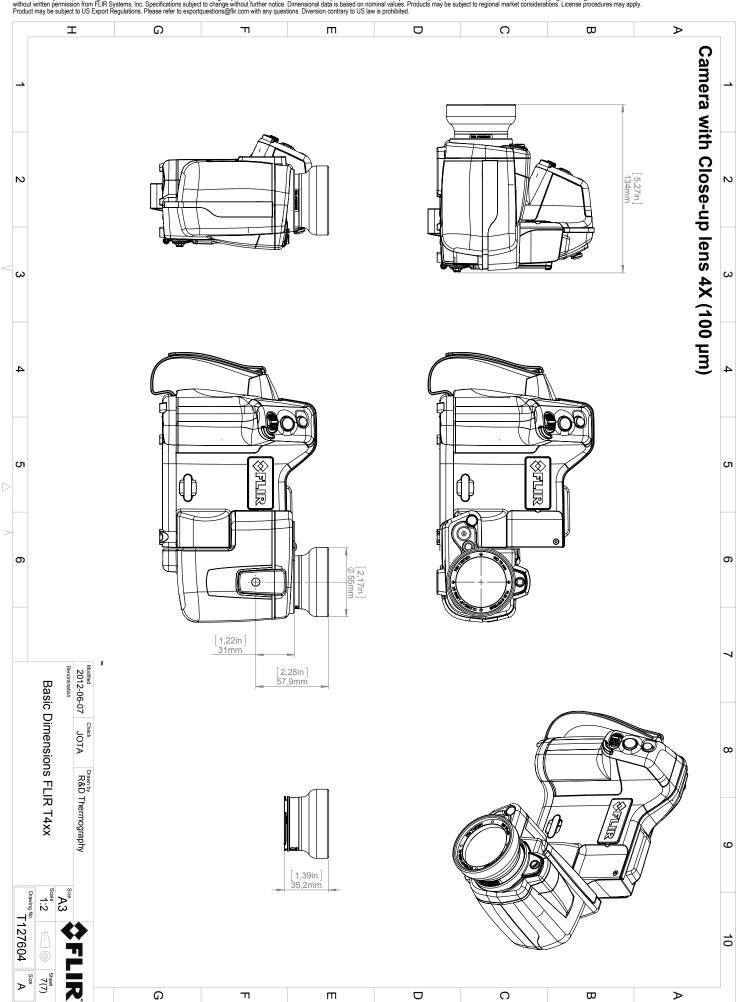


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October 15, 2012

AQ125912

CE Declaration of Conformity

This is to certify that the System listed below have been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CE-mark.

Directives:

Directive 2004/108/EC;

Electromagnetic Compatibility

Directive 2006/95/EC;

"Low voltage Directive" (Power Supply)

Directive 1999/5/EC

"R&TTE on radio equipment and

telecommunications terminal equipment"

Directive 2002/96/EC

Waste electrical and electronic equipment; WEEE

(As applicable)

Standards:

Emission:

EN 61000-6-3; Electro

Electro magnetic Compatibility Generic standards - Emission

Immunity:

EN 61000-6-2;

Electro magnetic Compatibility;

Generic standards - Immunity

Safety (Power Supply):

EN 60950; (or other)

Safety of information technology

equipment

Radio

EN 301489

System:

FLIR T4XX series

FLIR Systems AB Quality Assurance

Björn Svensson

Director