

P/N: 62104-2204

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General description

The FLIR T430sc is a camera that offers good performance at an affordable price. Excellent ergonomics and a walk-up-and-use interface make the FLIR T430sc a truly user-friendly camera for the beginner or advanced user. High accuracy and sensitivity together with radiometric streaming options make the FLIR T430sc well suited for research and development.

Benefits:

- Tailor made for research and development: The FLIR T430sc has high accuracy and sensitivity to accurately measure the smallest temperature differences.
- Excellent ergonomics: The FLIR T430sc 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 T430sc 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 visual images, by sketching or adding predefined stamps directly onto the camera's touch screen.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T430sc 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



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Imaging and optical data		
Focus	Automatic (one shot) or manual	
Digital zoom	2× and 4×	
Detector data		
Detector type	Focal plane array (FPA), uncooled microbolometer	
Spectral range	7.5–13 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 +650°C (+32°F to +1202°F) 	
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25° C (77°F) nominal.	
Measurement analysis		
Spotmeter	5	
Area	5 areas (boxes or circles) with max./min./average	
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	
Insulation alarm	1 insulation alarm	



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Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information
Use PC software FLIR Tools
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.
15 seconds to 24 hours
60 seconds (via Bluetooth) stored with the image
Add table. Select between predefined templates or create your own in FLIR Tools
Add short note (stored in JPEG EXIF tag)
Wireless connection (Bluetooth) to:
FLIR meters with METERLINK
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
MPEG-4 to memory card
MPEG-4 to memory card
Full dynamic to PC using USB or to mobile devices using Wi-Fi.
MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Uncompressed colorized video using USB MPEG-4 using Wi-Fi
Uncompressed colorized video using USB MPEG-4 using Wi-Fi



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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	<u> </u>
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) FCC 47 CFR Part 15 B (Emission)

Operating temperature range	-13 C t0 +30 C (+3 F t0 +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 × W × 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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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 FLIR ResearchIR Standard 4 FLIR Tools download card User documentation CD-ROM Printed documentation Hard transport case Memory card Neckstrap Power supply, incl. multi-plugs Sunshield USB cable Video cable
Packaging, weight	
Packaging, size	$495 \times 192 \times 370 \text{ mm} (19.49 \times 7.56 \times 14.57 \text{ in.})$
EAN-13	
UPC-12	
Country of origin	Sweden

Supplies & accessories:

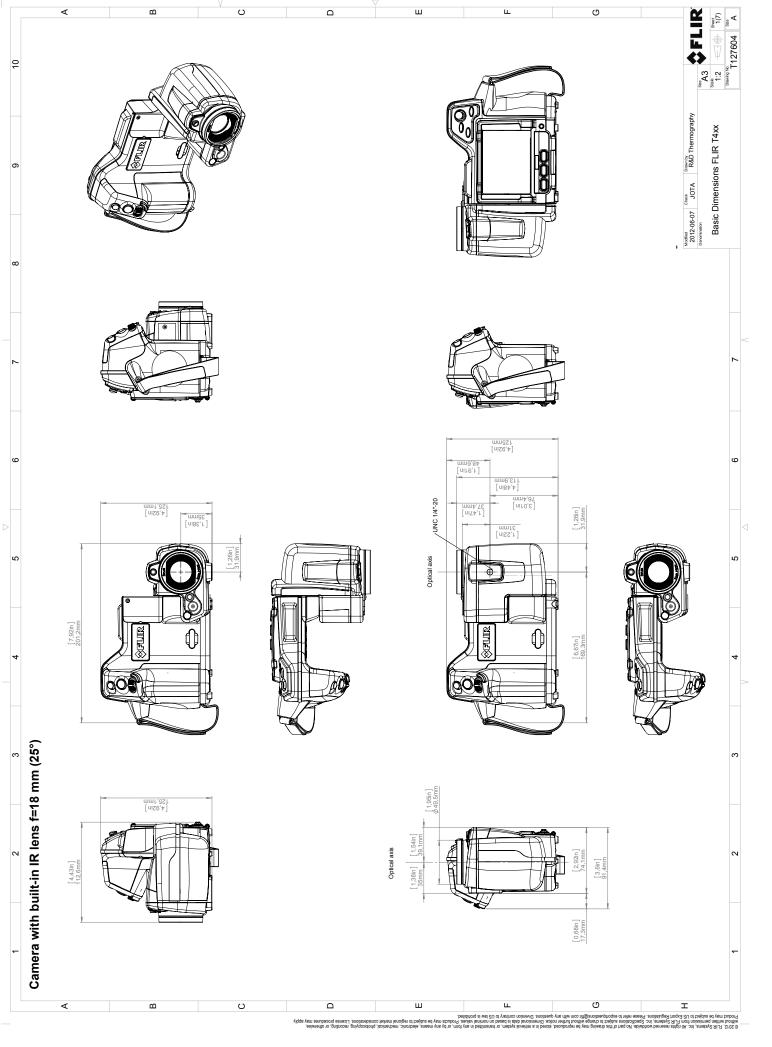
- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T197214; Close-up 2× (50 μm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- T910814; Power supply, incl. multi plugs
- T197667; Battery package
- T197650; 2-bay battery charger, incl. power supply with multi plugs
- 1196398ACC; Battery
- 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.

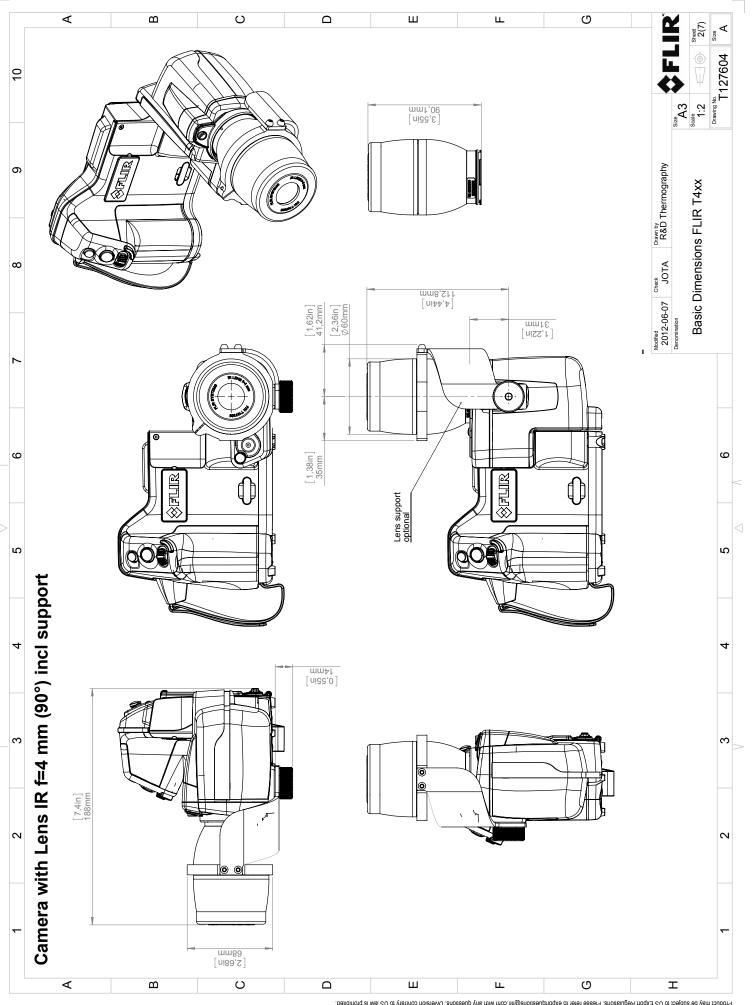


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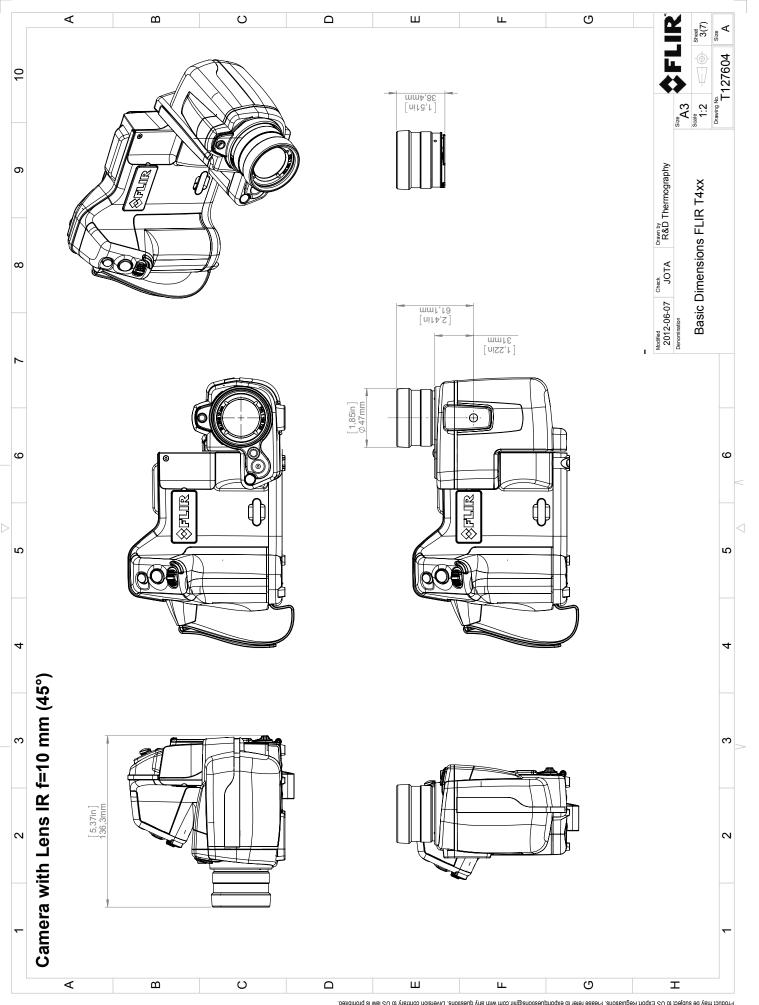
- 19252-200; SS IR Window 4 in.
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4
- T199014; FLIR ResearchIR Max + HSDR 4
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade
- T198696; FLIR ResearchIR Max 4
- T199013; FLIR ResearchIR Max 4
- T199043; FLIR ResearchIR Max 4 Upgrade
- T198731; FLIR ResearchIR Standard 4
- T199012; FLIR ResearchIR Standard 4
- T199042; FLIR ResearchIR Standard 4 Upgrade





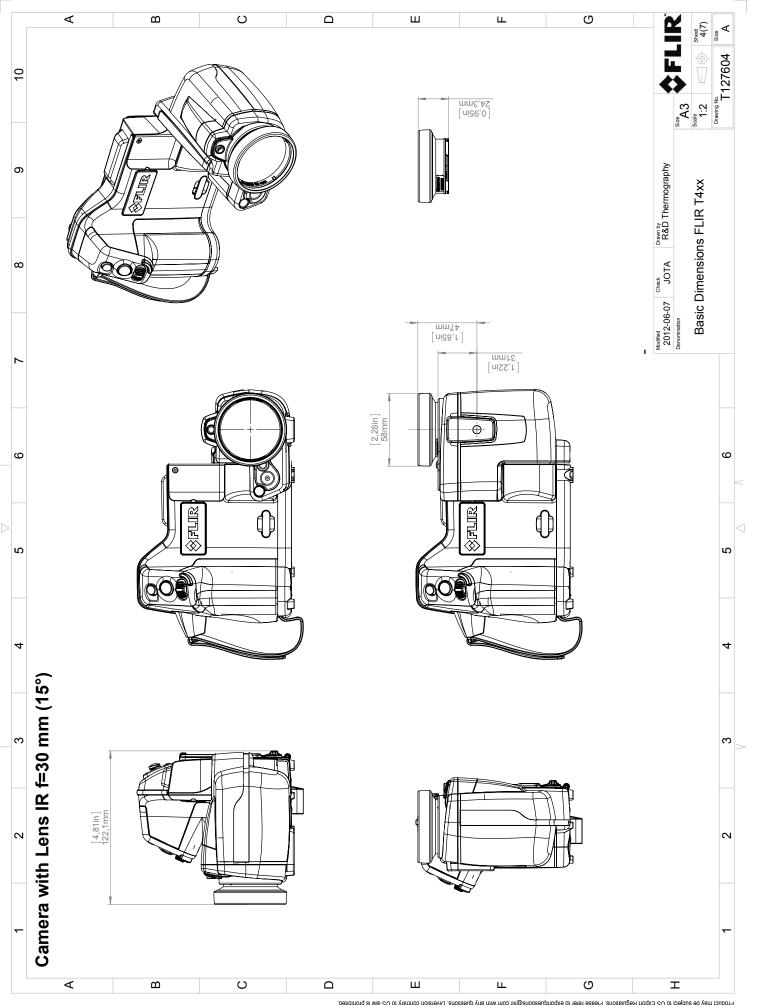
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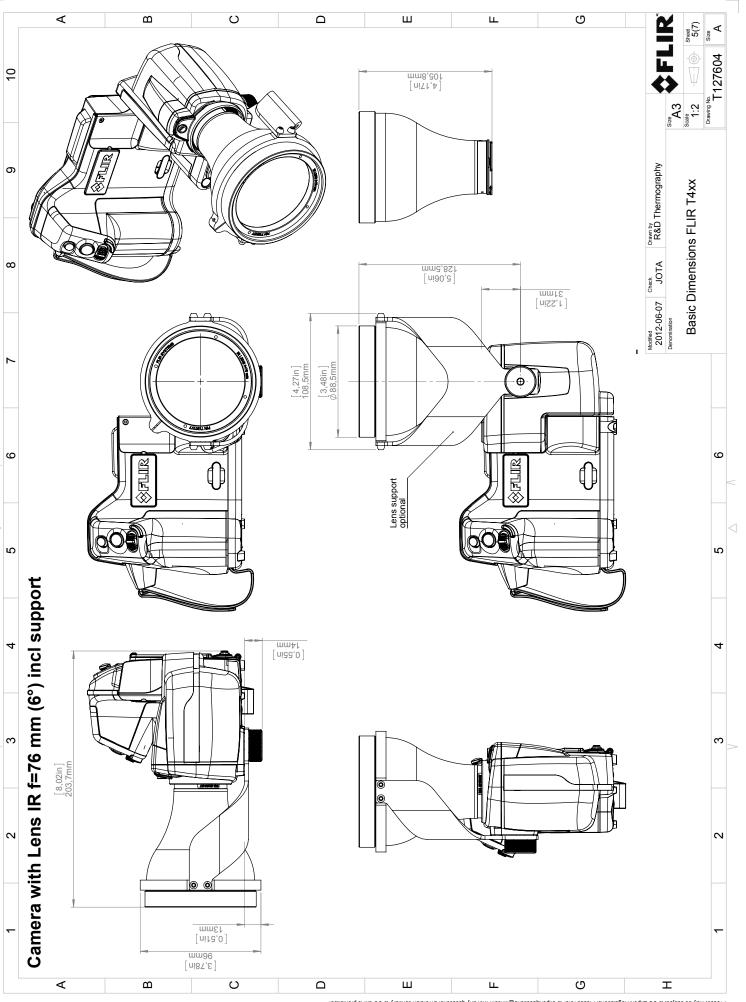
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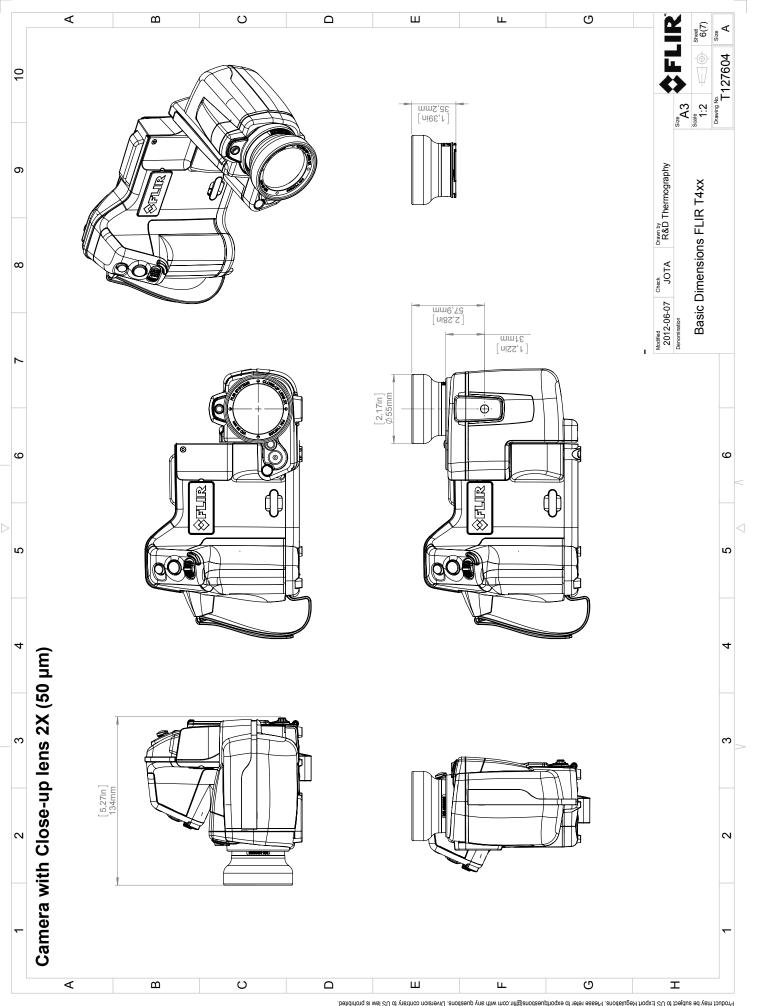
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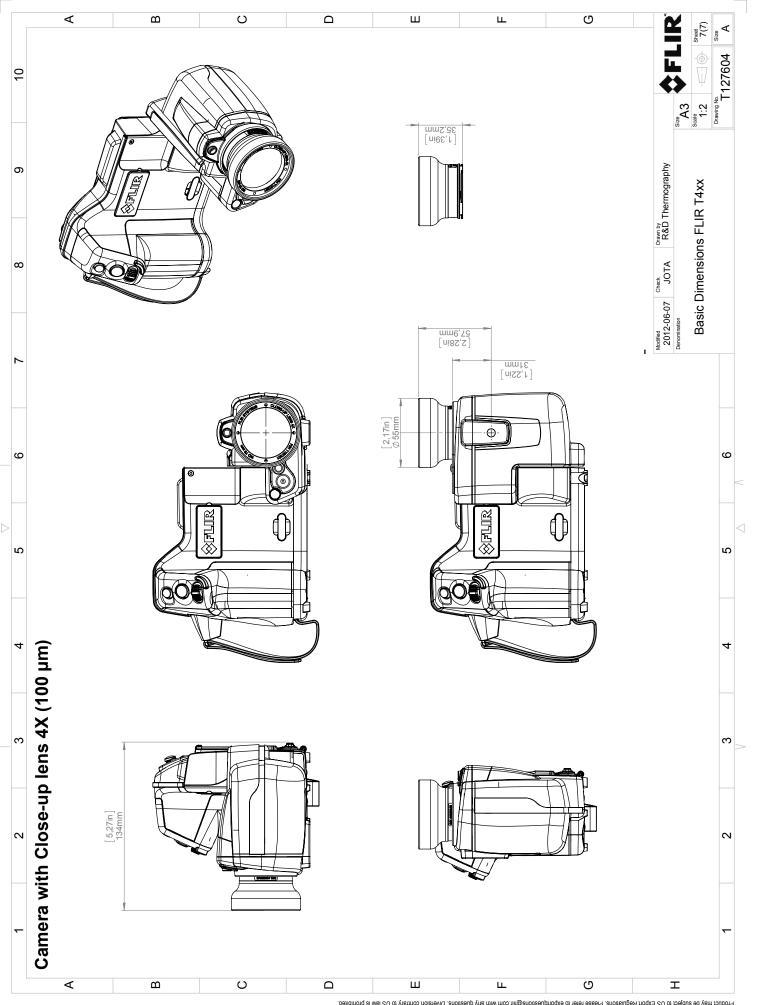
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October 15, 2012

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; Ele

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