## **\$FLIR**

### FLIR T440bx 25° and 45° w/case

### P/N: 62103-1704

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#### Website

http://www.flir.com

#### **Customer support**

http://support.flir.com

#### Disclaimer

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#### **General description**

The FLIR T440bx 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 T440bx a truly user-friendly camera for the beginner or advanced user.

#### Benefits:

- Excellent ergonomics: The FLIR T440bx 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 T440bx 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 T440bx 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, 4x and 8x                  |



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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      | <ul> <li>-20°C to +120°C (-4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> </ul>                                  |  |
| Accuracy                      | ±2°C (±3.6°F) or 2%, whichever is greater, at 25° C (77°F) nominal.   |  |
| Measurement analysis          |   |  |
| Spotmeter                     | 5   |  |
| Area                          | 5 + 5 areas (boxes or circles) with max./min./<br>average (in post-acquisition analysis)  |  |
| Profile                       | 1 line profile with max/min temp.   |  |
| Automatic hot/cold detection  | Auto hot or cold spotmeter markers within area and profile  |  |
| Measurement presets           | No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2   |  |
| User presets (in live images) | The user can select and combine measurements from any number of available spots/boxes/circles/profiles/delta                    |  |
| 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   |  |



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| Humidity alarm 1 humidity alarm, including dew point alarm 1 insulation alarm 2 insulation alarm 3 insulatio |        |
|--|--------|
| Set-up  Set-up commands  Define user presets, Save options, Programmable button, Reset options, Set camera, Wi-Fi, Compass, Bluetooth, Lang 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 of photo in same JPEG file. Optional to store digital photo as a sepin JPEG file. Optional to store digital photo as a sepin JPEG file. Optional to store digital photo as a sepin JPEG file. Add table. Select between predefined term or create your own in FLIR Tools  Image description Add short note (stored in JPEG EXIF tag). Sketch Draw on thermal/digital photo or add predestamps  METERLINK Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Report generation  Instant Report (".pdf file) in camera include and visual images Separate PC software with extensive regeneration  Geographic Information System  Compass  Camera direction automatically added to estill image  Video recording in camera  Non-radiometric IR video recording MPEG-4 to memory card  Video streaming  Full dynamic to PC using USB or to mobile devices using Wi-Fi.   | n      |
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| Video streaming  Radiometric IR video streaming  Full dynamic to PC using USB or to mobile devices using Wi-Fi.  |        |
| Radiometric IR video streaming  Full dynamic to PC using USB or to mobile devices using Wi-Fi.   |        |
| devices using Wi-Fi.   |        |
| Non-radiometric IR video streaming   | )      |
| MPEG-4 using Wi-Fi     Uncompressed colorized video using U  | JSB    |
| Visual video streaming  • MPEG-4 using Wi-Fi • Uncompressed colorized video using U  | JSB    |



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| Digital camera                |   |  |  |
|-------------------------------|---|--|--|
| Built-in digital camera       | 3.1 Mpixels with LED light (photo as separate image)  |  |  |
| Digital camera, focus         | Fixed focus   |  |  |
| 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                         | <ul> <li>Standard: 802.11 b/g</li> <li>Frequency range: 2412–2462 MHz</li> <li>Max. output power: 15 dBm</li> </ul> |  |  |
| METERLiNK/Bluetooth           | Frequency range: 2402-2480 MHz  |  |  |
| Antenna                       | Internal  |  |  |
| Power system                  |   |  |  |
| Battery type                  | Rechargeable Li ion battery   |  |  |
| Battery voltage               | 3.7 V   |  |  |
|                               |   |  |  |



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| Power system                     |  |  |
|----------------------------------|--|--|
| 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   |  |
| 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                              | <ul> <li>ETSI EN 301 489-1 (radio)</li> <li>ETSI EN 301 489-17</li> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> <li>ICES-003</li> </ul> |  |
| Radio spectrum                   | <ul><li>ETSI EN 300 328</li><li>FCC Part 15.247</li><li>RSS-210</li></ul>  |  |
| 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                         | <ul> <li>Polycarbonate + acrylonitrile butadiene<br/>styrene (PC-ABS)</li> <li>Thixomold magnesium</li> <li>Thermoplastic elastomer (TPE)</li> </ul>   |  |
|                                  | <del>- 1</del>   |  |

Graphite gray and black

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Color

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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               | 7332558012192   |
| UPC-12               | 845188013295  |
| Country of origin    | Sweden  |

#### Supplies & accessories:

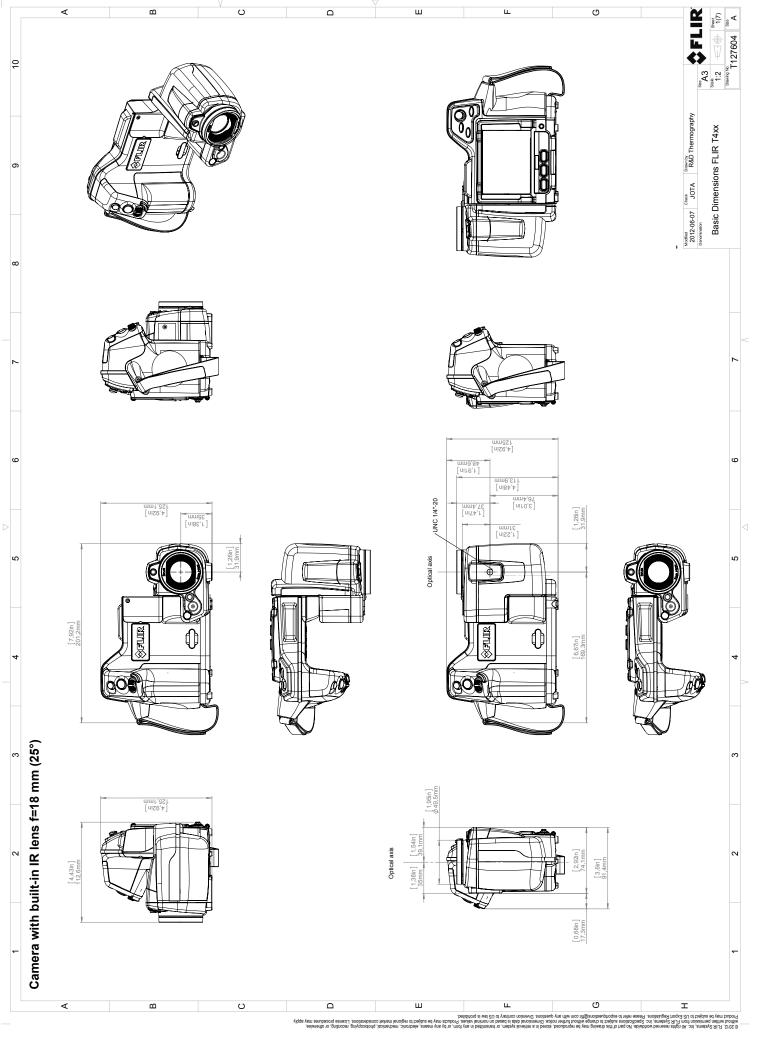
- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T197214; Close-up 2× (50 μm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting 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)

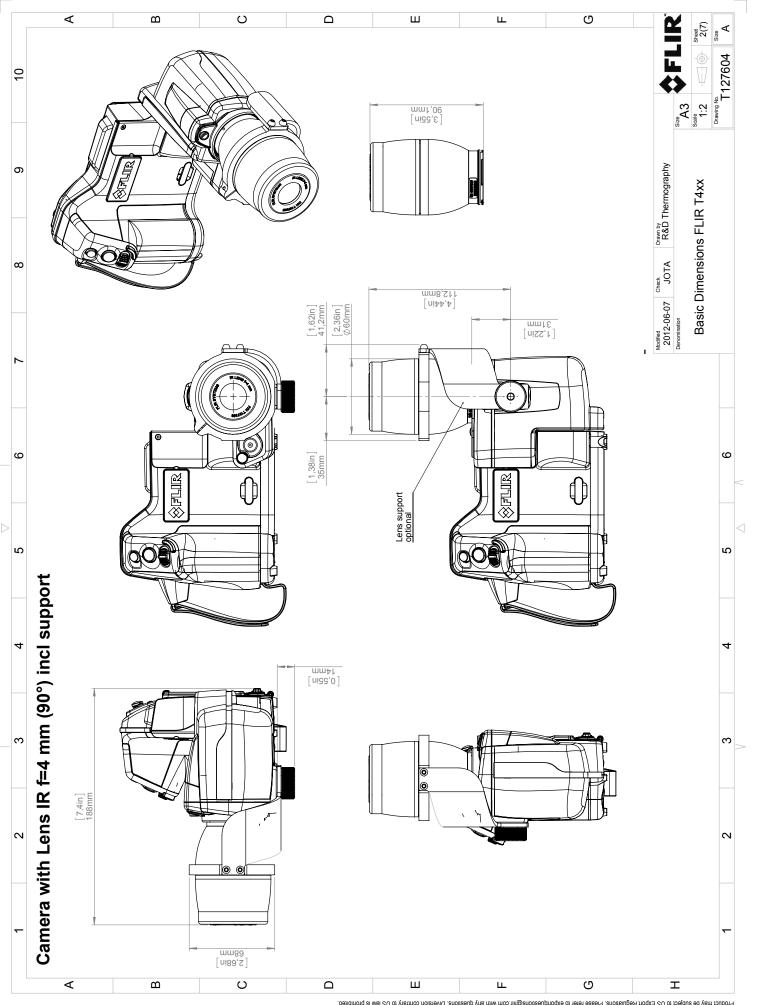


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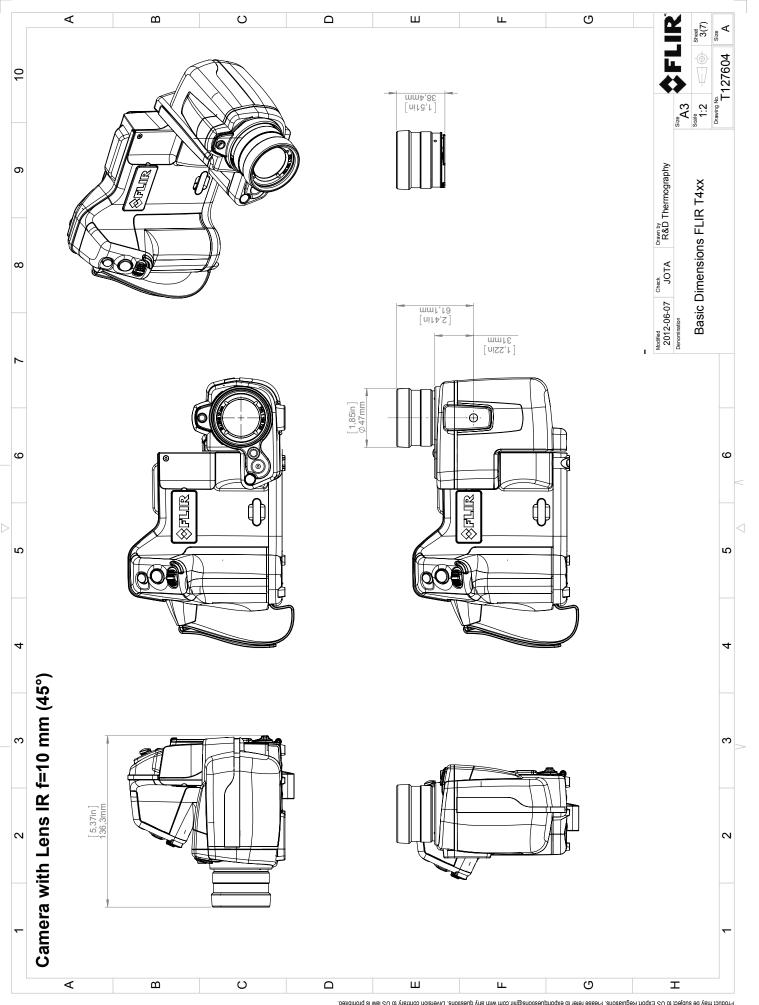
- APP-10004; FLIR Tools (MacOS Application)
- T198697; FLIR ResearchIR Max + HSDR 4 (hardware sec. dev.)
- T199014; FLIR ResearchIR Max + HSDR 4 (printed license key)
- T199044; FLIR ResearchIR Max + HSDR 4 Upgrade (printed license key)
- T198696; FLIR ResearchIR Max 4 (hardware sec. dev.)
- T199013; 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





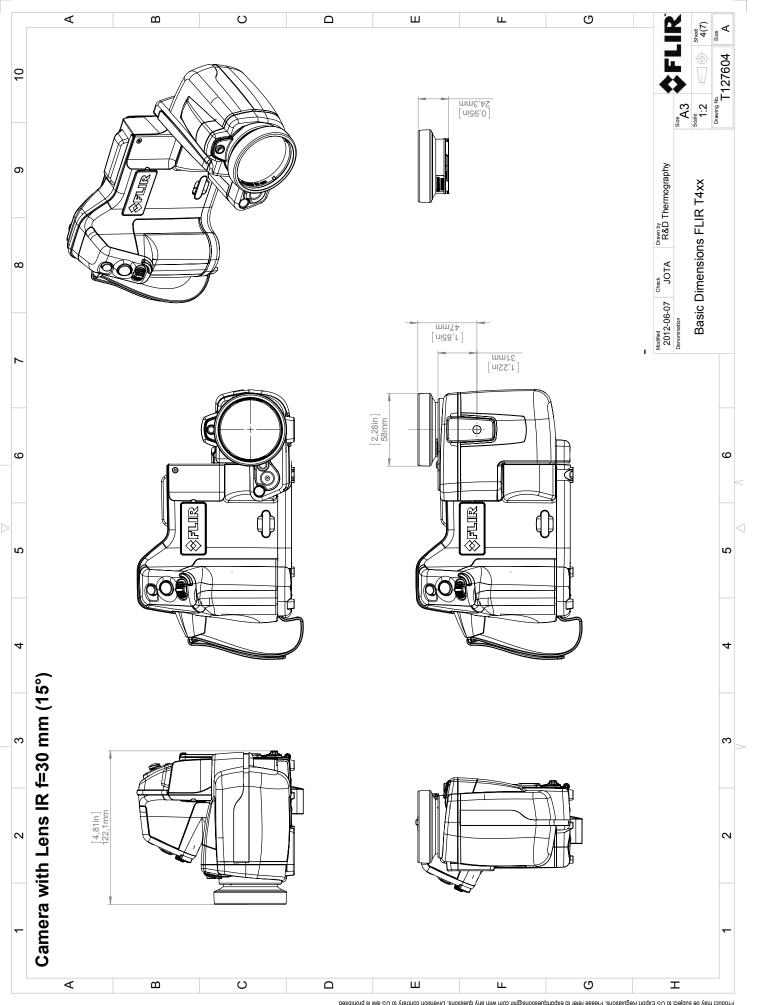
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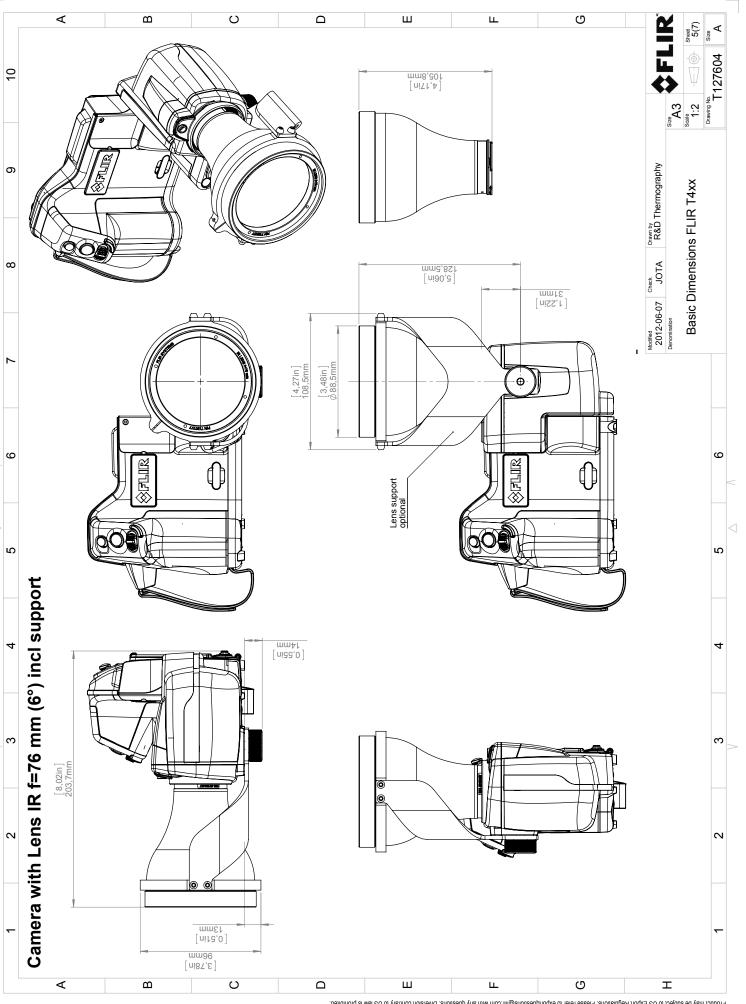
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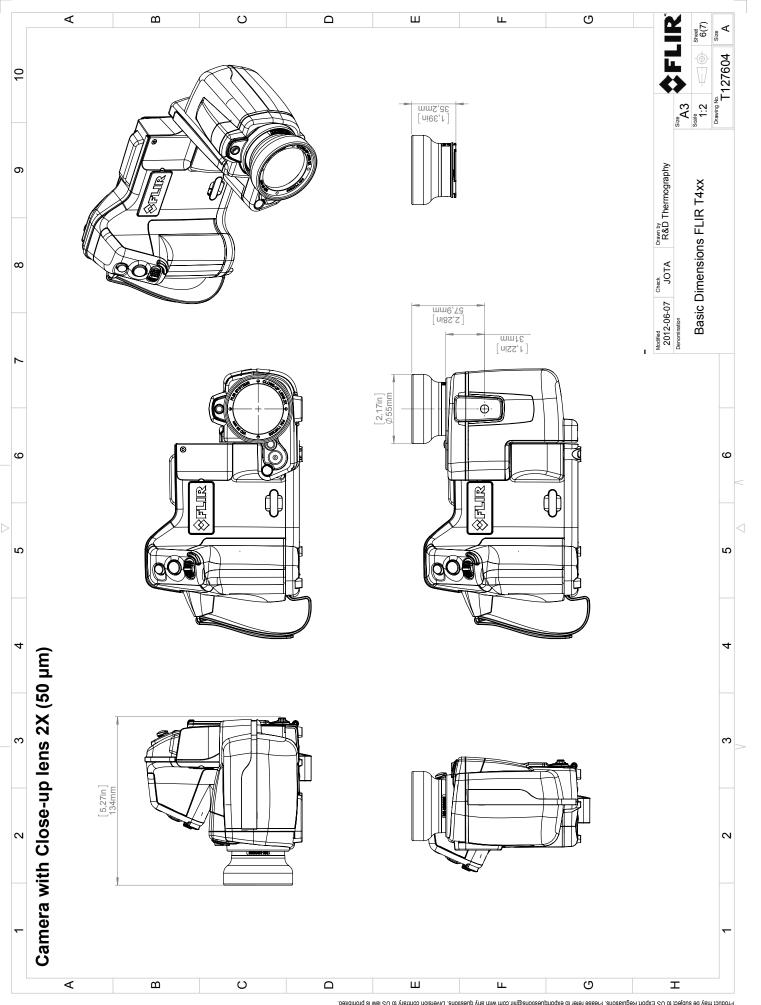
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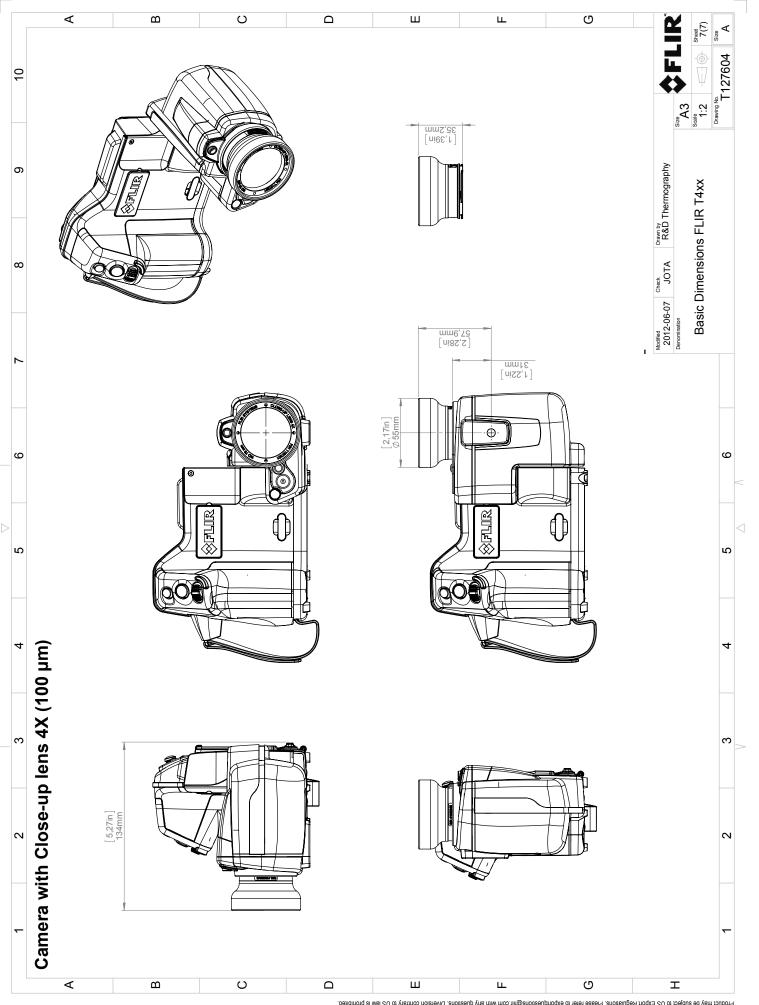
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October 15, 2012

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 CEmark.

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 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