

P/N: 62104-2801

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Document identity

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Website

http://www.flir.com

Customer support

http://support.flir.com

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General description

The FLIR T460 is a camera that offers good performance at an affordable price. Excellent ergonomics and a walk-up-and-use interface make the FLIR T460 a truly user-friendly camera for the beginner or advanced user.

Benefits:

- Excellent ergonomics: The FLIR T460 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 T460 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 T460 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	2×, 4× and 8×



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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 +650°C (+32°F to +1202°F) +250°C to +1500°C (+482°F to +2732°F)	
Accuracy	±1°C (±1.8°F) or ±1% of reading for limited temperature range. ±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./ 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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Set-up	
Set-up commands	Define user presets, 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.
Time lapse	15 seconds to 24 hours
Image annotations (in still images)	
Voice	60 seconds (via Bluetooth) stored with the image
Text	Add table. Select between predefined templates 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 predefined stamps
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	
Radiometric IR video recording	CSQ to memory card
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)
Digital camera, focus	Fixed focus
Digital camera, FOV	Adapts to the IR lens



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Digital camera		
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	
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)	



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AC operation		
Start-up time from sleep mode 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) EEG 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 300 489-1 (radio) - ETSI EN	Power system	
Departing temperature range	AC operation	
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) EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-77°F to +104°F) / 2 cycles EMC -16°C to +40°C (-40°F to +104°F) / 2 cycles EMC -16°C to +40°C (-40°F to +104°F) / 2 cycles EMC -16°C to +40°C (-40°F to +104°F) / 2 cycles EMC -16°C to +40°C (-40°F to +104°F) / 2 cycles EMC -16°C to +40°C (-40°F to +104°F) / 2 cycles EMC -16°C to +40°C (-47°F to +104°F) / 2 cycles EMC -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F) / 2 cycles -16°C to +40°C (-47°F to +104°F to +104	Start-up time from sleep mode	Instant on
Storage temperature range	Environmental data	
Humidity (operating and storage) EC 60068-2-30/24 h 95% relative humidity +25° C to +40°C (+77°F to +104°F) / 2 cycles	Operating temperature range	-15°C to +50°C (+5°F to +122°F)
EMC ETSI EN 301 489-1 (radio) 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) FCC Part 15.247 FSS-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 60068-2-27) 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 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward Tripod mounting UNC ¼*-20 (adapter needed) Material P Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE) Color Graphite gray and black 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 FILIR Tools download card User documentation Hard transport case Memory card Neckstrap Power supply, incl. multi-plugs Sunshield USB cable Video cable	Storage temperature range	-40°C to +70°C (-40°F to +158°F)
ETSIEN 301 489-17	Humidity (operating and storage)	· · · · · · · · · · · · · · · · · · ·
Pit is in Sub 228 FCC Part 15.247 RSS-210	EMC	 ETSI EN 301 489-17 EN 61000-6-2 (Immunity) EN 61000-6-3 (Emission) FCC 47 CFR Part 15 B (Emission)
(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 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward Tripod mounting UNC ¼*-20 (adapter needed) Material Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE) Color Graphite gray and black Shipping information Packaging, type Cardboard box Infrared camera with lens Battery (2 ea.) Battery (2 ea.) Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate FILR Tools download card User documentation CD-ROM Printed documentation Hard transport case Memony card Neckstrap Power supply, incl. multi-plugs Sunshield USB cable Video cable	Radio spectrum	 FCC Part 15.247
Shock Vibration 25 g (IEC 60068-2-27) 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 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward Tripod mounting UNC ¼*-20 (adapter needed) Material Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE) Color Graphite gray and black Shipping information Packaging, type Cardboard box Infrared camera with lens Battery (2 ea.) Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate FLIR Tools download card Under the company card FILIR Tools download card	Magnetic fields	· · · · · · · · · · · · · · · · · · ·
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 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward Tripod mounting UNC ¼*-20 (adapter needed) Material - Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) - Thixomold magnesium - Thermoplastic elastomer (TPE) Color - Graphite gray and black 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 Tools download card - User documentation - Printed documentation - Hard transport case - Memory card - Neckstrap - Power supply, incl. multi-plugs - Sunshield - USB cable - Video cable	Encapsulation	IP 54 (IEC 60529)
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 × 201 × 125 mm (4.2 × 7.9 × 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 Shipping information Packaging, type Cardboard box List of contents Infrared camera with lens Battery (2 ea.) Battery (2 ea.) Battery (2 ea.) Battery (2 ea.) Camera lens cap Calibration certificate FLIR Tools download card User documentation Hard transport case Memory card Neckstrap Power supply, incl. multi-plugs Sunshield USB cable Video cable	Shock	25 g (IEC 60068-2-27)
Physical data Camera weight, incl. battery Camera size (L × W × H) Discrete the street of the str	Vibration	2 g (IEC 60068-2-6)
Camera weight, incl. battery Camera size (L × W × H) 106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward Tripod mounting UNC ¼"-20 (adapter needed) Material Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE) Color Graphite gray and black Shipping information Packaging, type Cardboard box Infrared camera with lens Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate 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	Safety	EN/UL/CSA/PSE 60950-1
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Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE) Color Graphite gray and black 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 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	Tripod mounting	UNC 1/4"-20 (adapter needed)
Shipping information Packaging, type Cardboard box Infrared camera with lens Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate 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	Material	styrene (PC-ABS) Thixomold magnesium
Packaging, type Cardboard box Infrared camera with lens Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate 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	Color	Graphite gray and black
List of contents • Infrared camera with lens • Battery (2 ea.) • Battery charger • Bluetooth headset • Camera lens cap • Calibration certificate • 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	Shipping information	
 Intrared camera with lens Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate 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, type	Cardboard box
Packaging, weight 5.7 kg (12.6 lb.)	List of contents	Battery (2 ea.) Battery charger Bluetooth headset Camera lens cap Calibration certificate FLIR Tools download card User documentation CD-ROM Printed documentation Hard transport case Memory card Neckstrap Power supply, incl. multi-plugs Sunshield USB cable
	Packaging, weight	5.7 kg (12.6 lb.)



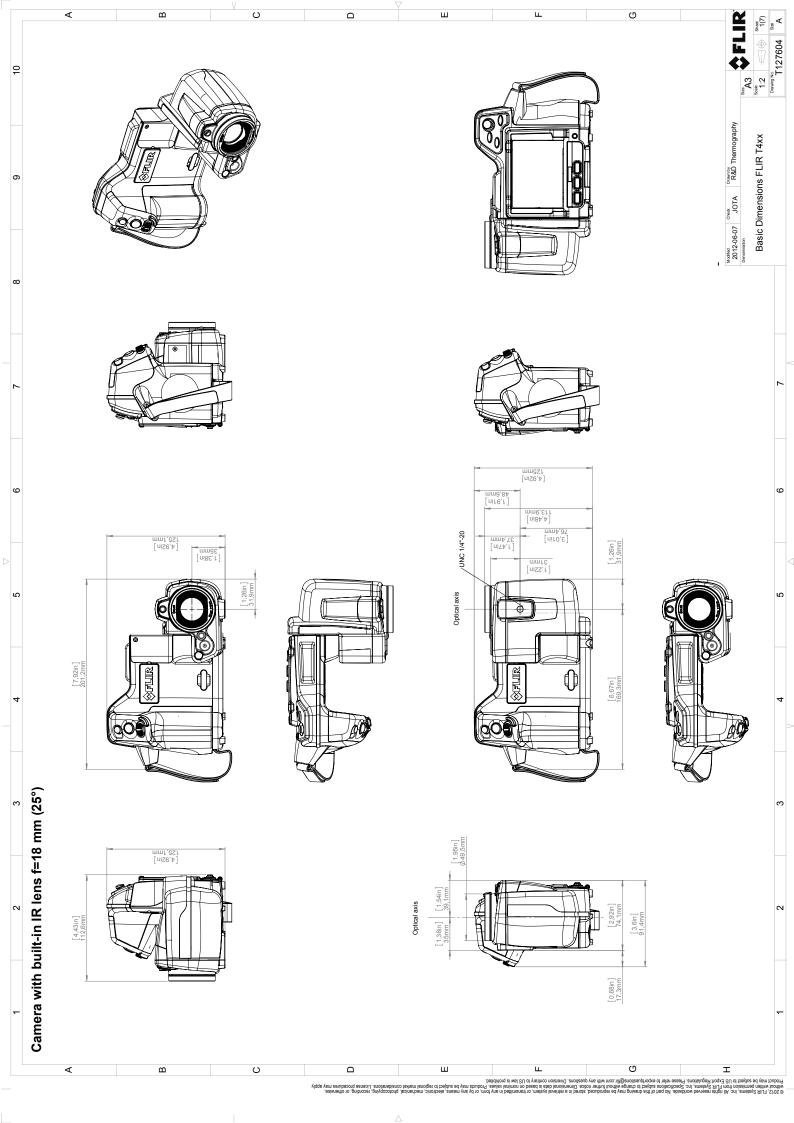
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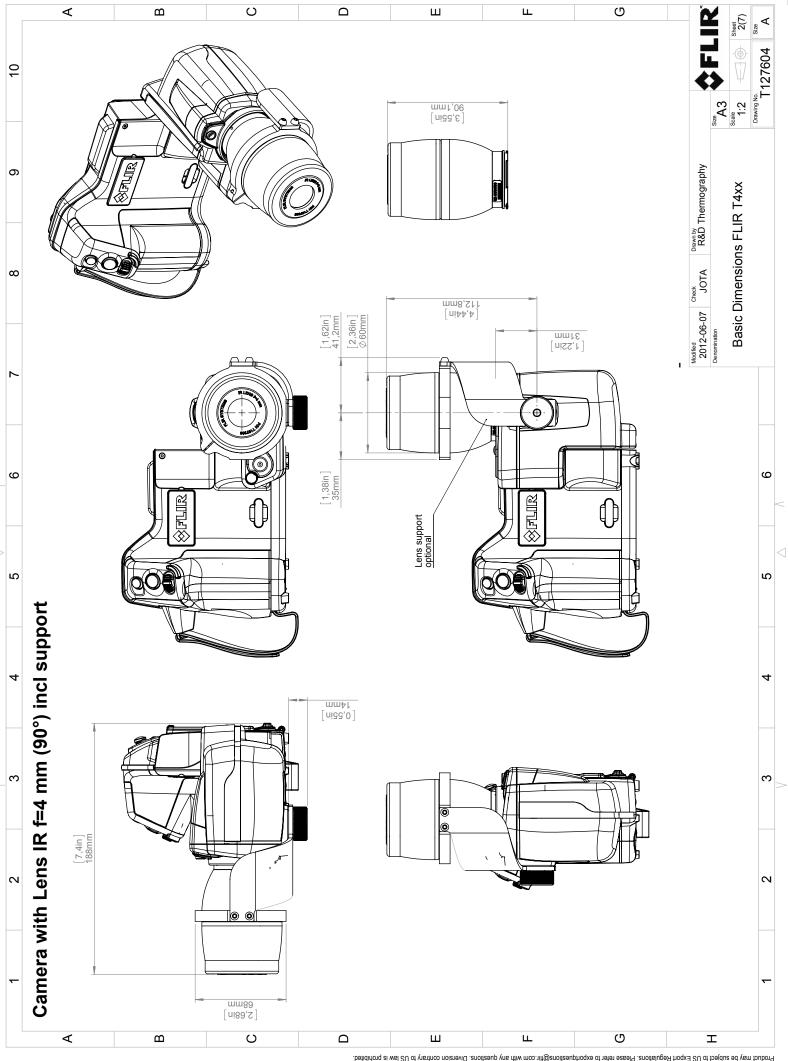
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Shipping information	
Packaging, size	$495 \times 192 \times 370 \text{ mm} (19.49 \times 7.56 \times 14.57 \text{ in.})$
EAN-13	7332558008706
UPC-12	845188009229
Country of origin	Sweden

Supplies & accessories:

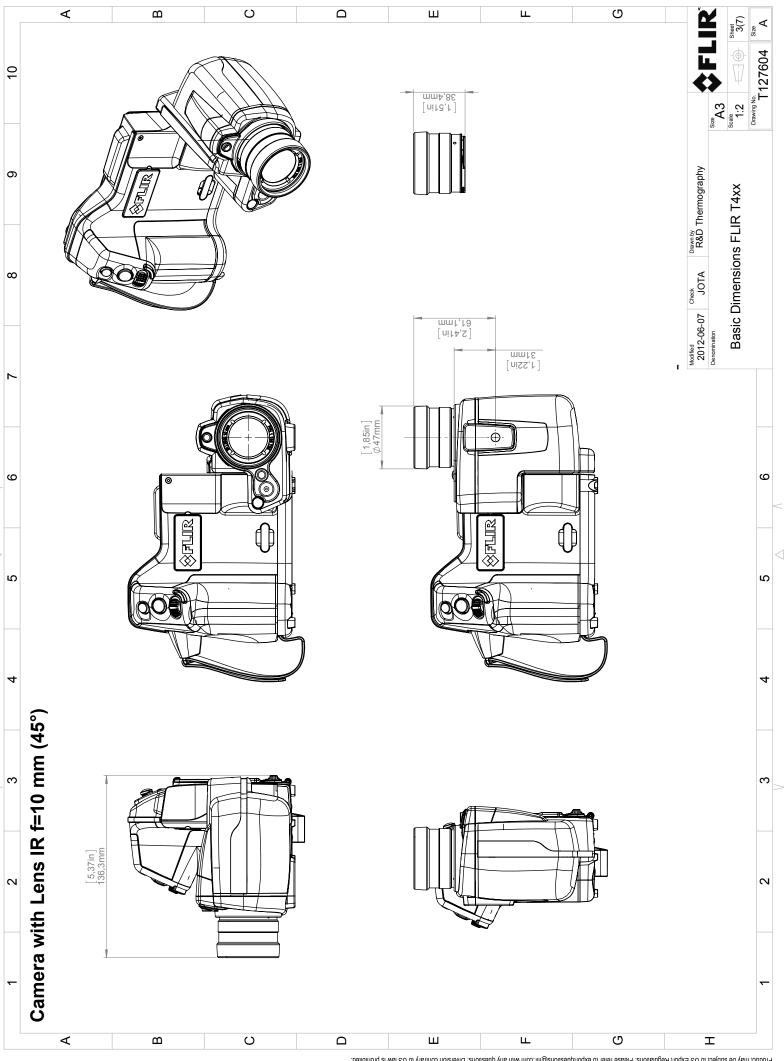
- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case
- T197214; Close-up 2× (50 μm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C (+2192°F)
- T910814; Power supply, incl. multi plugs
- 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.
- 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)
- APP-10004; FLIR Tools (MacOS Application)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB





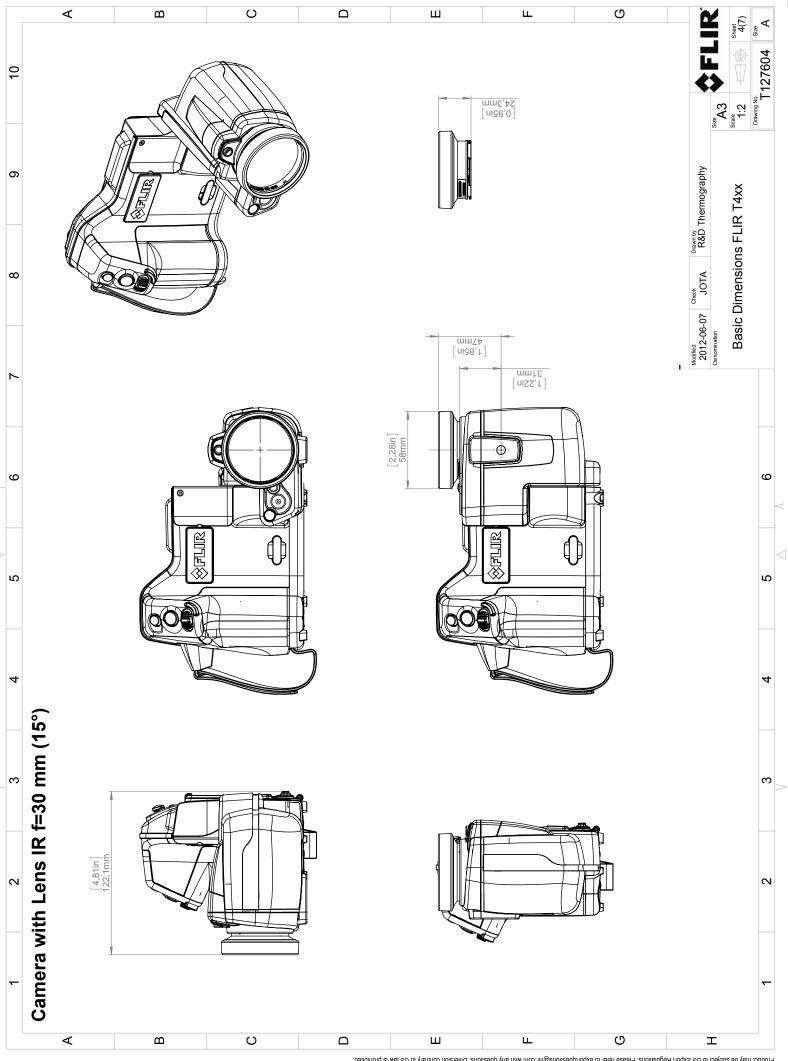
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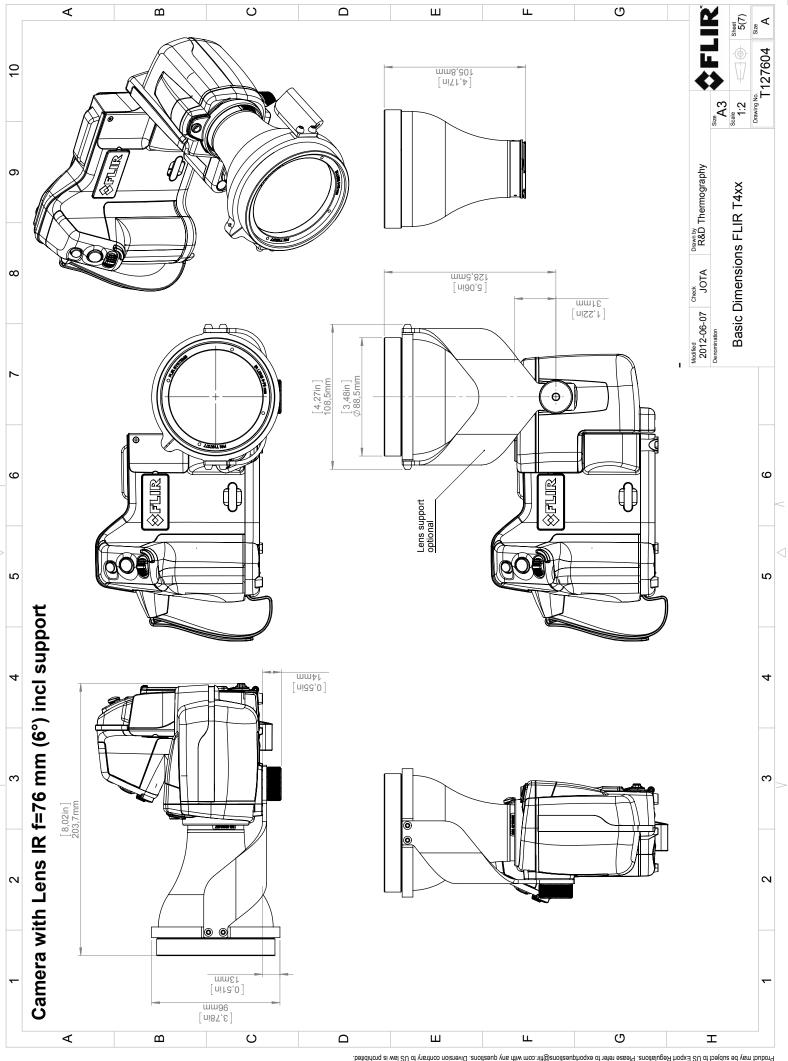
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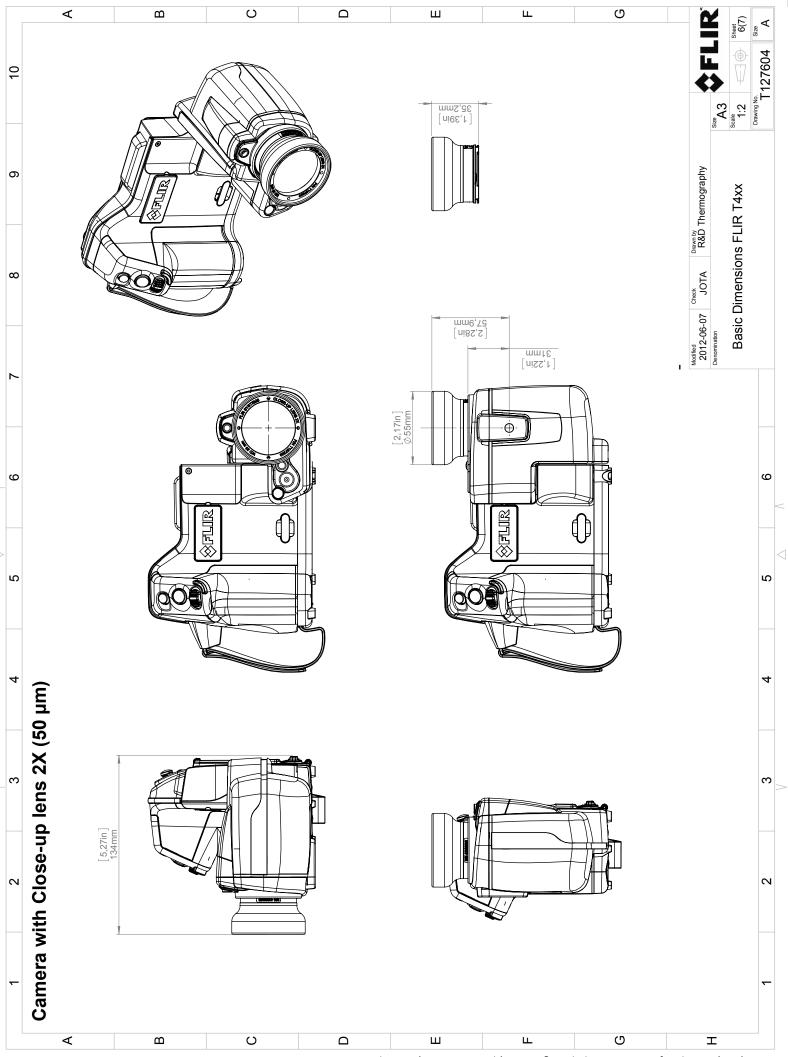
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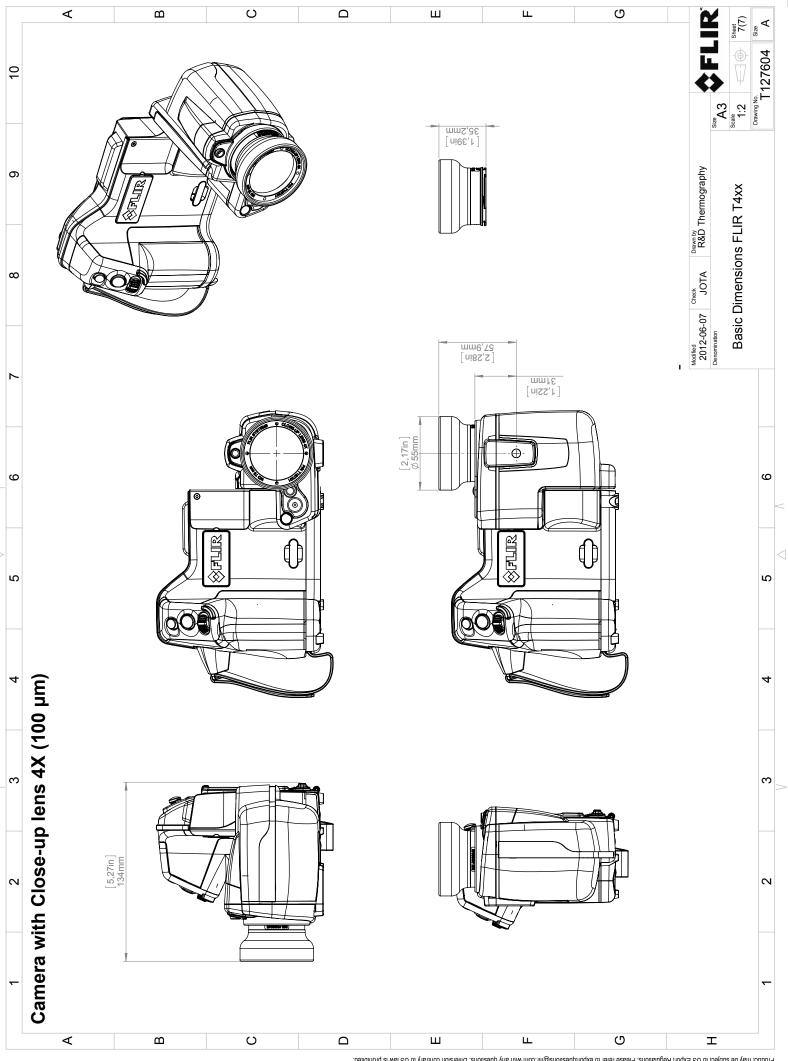
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October 15, 2012

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