

P/N: 55904-6422

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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 T630 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640×480 pixel infrared resolution. The FLIR T630 is flexible and can meet your every need, and has extensive communication options.

Benefits:

- Highest performance with the latest technology: The FLIR T630 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before
- Ground-breaking efficiency: You can highlight objects of interest, on both the infrared and the visual
 images, by sketching or adding predefined stamps directly onto the camera's capacitive touch
 screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you
 to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the FLIR T630 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	640 × 480 pixels	
UltraMax	Yes	
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)	
Field of view (FOV)	45° × 34°	
Minimum focus distance	0.15 m (0.49 ft.)	
Focal length	13 mm (0.52 in.)	
Spatial resolution (IFOV)	1.30 mrad	
Lens identification	Automatic	
F-number	1.0	
Image frequency	30 Hz	
Focus	Automatic (one shot) or manual	
Digital zoom	1–8× continuous	
Digital image enhancement	Adaptive digital noise reduction	

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm



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Image presentation		
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800×480 pixels	
Display type	Capacitive touch screen	
Auto orientation	Automatic landscape or portrait	
Viewfinder	Built-in 800 × 480 pixels	
Automatic image adjustment	Continuous, histogram based	
Manual image adjustment	Linear based; possible to adjust level/span/max./ min.	
Image presentation modes		
Infrared image	Full-color IR image	
Visual image	Full color visual image	
Thermal MSX	Thermal image with enhanced detail presentation	
Picture in Picture	Resizable and movable IR area on visual image	
Measurement		
Object temperature range	 -40°C to +150°C (-40°F to +302°F) +100°C to +650°C (+212°F to +1202°F) 	
Accuracy	$\pm 2^{\circ}\text{C}~(\pm 3.6^{\circ}\text{F})$ 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)	
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area	
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/delta	
Difference temperature	Delta temperature between measurement functions or reference temperature	
Reference temperature	Manually set using difference temperature	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	
Optics transmission correction	Automatic, based on signals from internal sensors	
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list	
Emissivity table	Emissivity table of predefined materials	
Reflected apparent temperature correction	Automatic, based on input of reflected temperature	
External optics/windows correction	Automatic, based on inputs of window transmission and temperature	
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	



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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	
Set-up		
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & 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	
Storage media	Removable memory SD 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	
File formats	Standard JPEG, measurement data included	
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image	
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 Separate PC software with extensive report generation	
Geographic Information System		
GPS	Location data automatically added to every still image from built-in GPS	
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	



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Video streaming	1	
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	5 Mpixels with LED light (photo as separate image)	
Digital camera, FOV	Adapts to the IR lens	
Video lamp	Built-in LED light	
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, 1 mW, 635 nm (red)	
Data communication interfaces		
Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output	
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 2.0 high speed	
Video output		
Video out	Digital video output (DVI)	
Video, connector type	HDMI compatible	
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 operating time	> 2.5 hours at 25°C (+68°F) and typical use	
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger	
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's	



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Power system		
Charging temperature	0°C to +45°C (+32°F to +113°F)	
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)	
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 Class B (Emission) ICES-003 	
Radio spectrum	ETSI EN 300 328FCC Part 15.247RSS-247 Issue 2	
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		
Weight	1.3 kg (2.87 lb.)	
Camera size, excl. lens $(L \times W \times H)$	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)	
Tripod mounting	UNC 1/4"-20	
Housing material	Magnesium	
Shipping information		
Packaging, type	Cardboard box	
List of contents	Infrared camera with lens Battery (2 ea.) Battery charger Bluetooth headset Calibration certificate Printed documentation HDMI-DVI cable HDMI-HDMI cable Hard transport case Large eyecap Lens cap Memory card Neck strap Power supply, incl. multi-plugs Tripod adapter USB cable, Std A to Mini-B	
Packaging, weight	6.6 kg (14.6 lb.)	
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)	
EAN-13	7332558006948	
UPC-12	845188007294	
Country of origin	Sweden	

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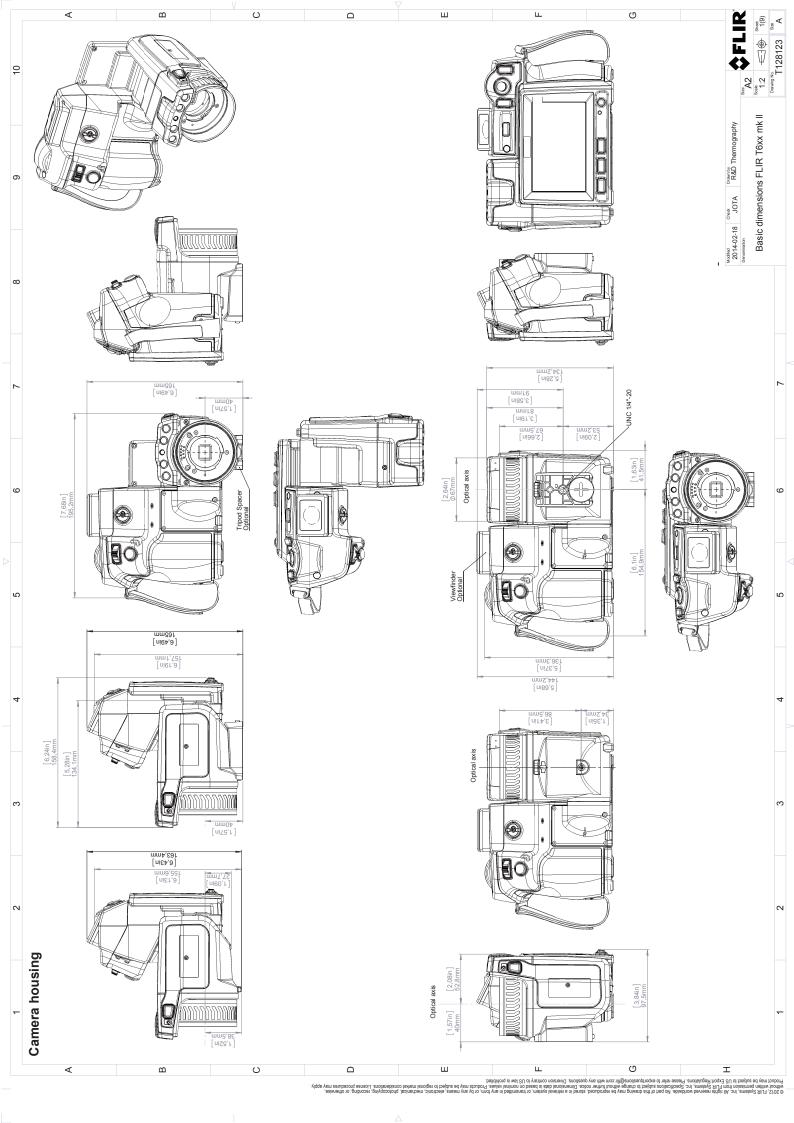
FLIR T630 45° (incl. Wi-Fi)

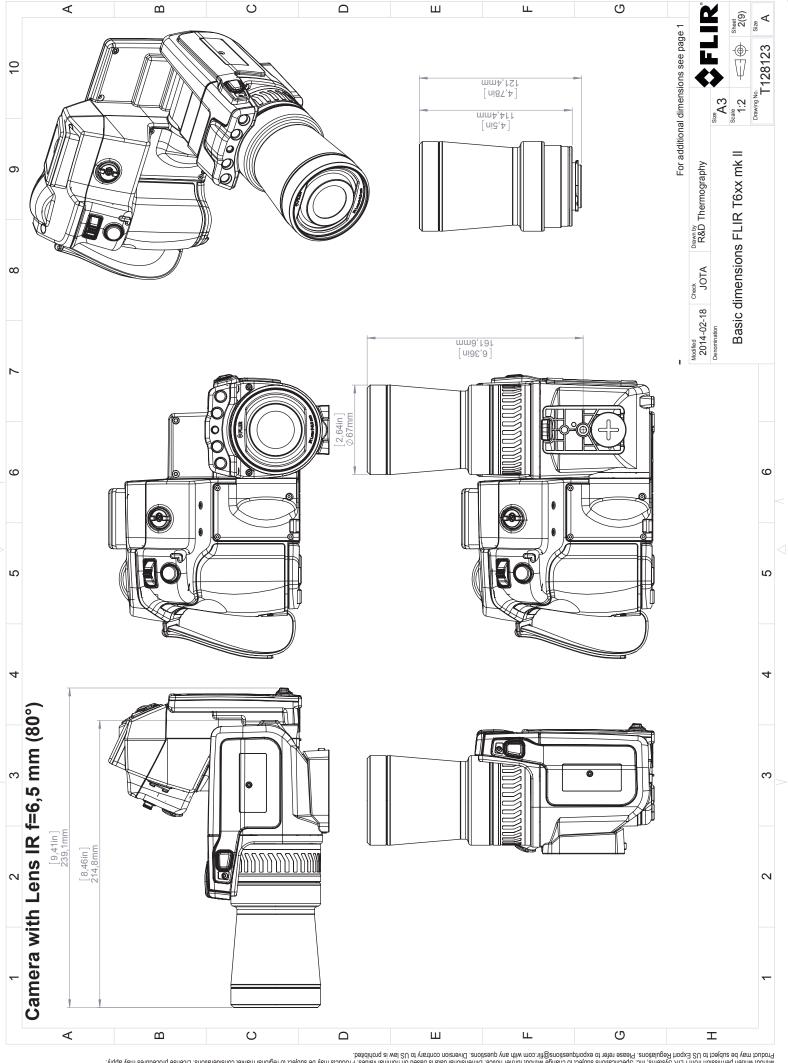
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Supplies & accessories:

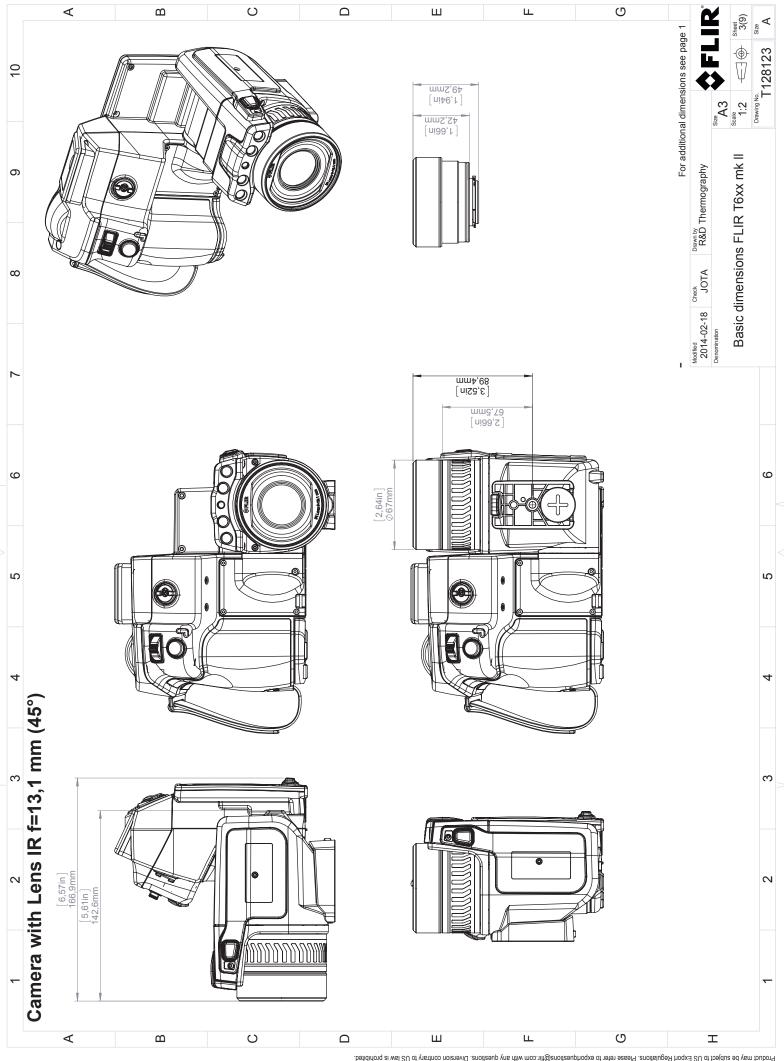
- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, $2.9 \times (50 \mu m)$ with case
- T198060; Close-up IR lens, 5.8× (100 μm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 μm) with case
- T197896; High temperature option +300°C to 2000°C (+572°F to 3632°F)
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T199364ACC; Battery Li-ion 3.65 V, 8.5 Ah, 32 Wh
- T911650ACC; Memory card SD Card 8 GB
- 1910423; USB cable Std A <-> Mini-B
- T198509; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case
- T198497; Large eyecup
- T198498; Tripod Adapter
- 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.
- T198495; Pouch
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- APP-10002; FLIR Tools Mobile (Android 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
- INST-EW-0160; Extended Warranty 1 Year for T620/bx & T630/sc
- INST-EWGM-0175; Premium Service Package for A310ex, A3xxf, A6xx, T620-T660
- INST-GM-0150; General Maintenance Package for T540, T6xx





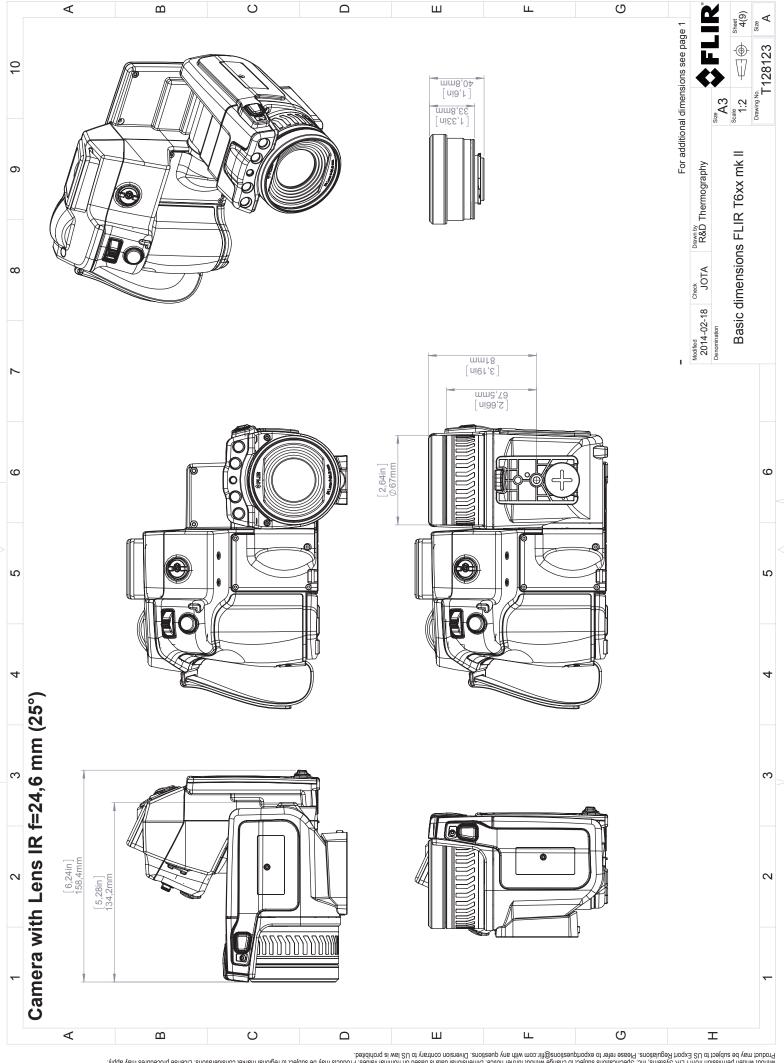
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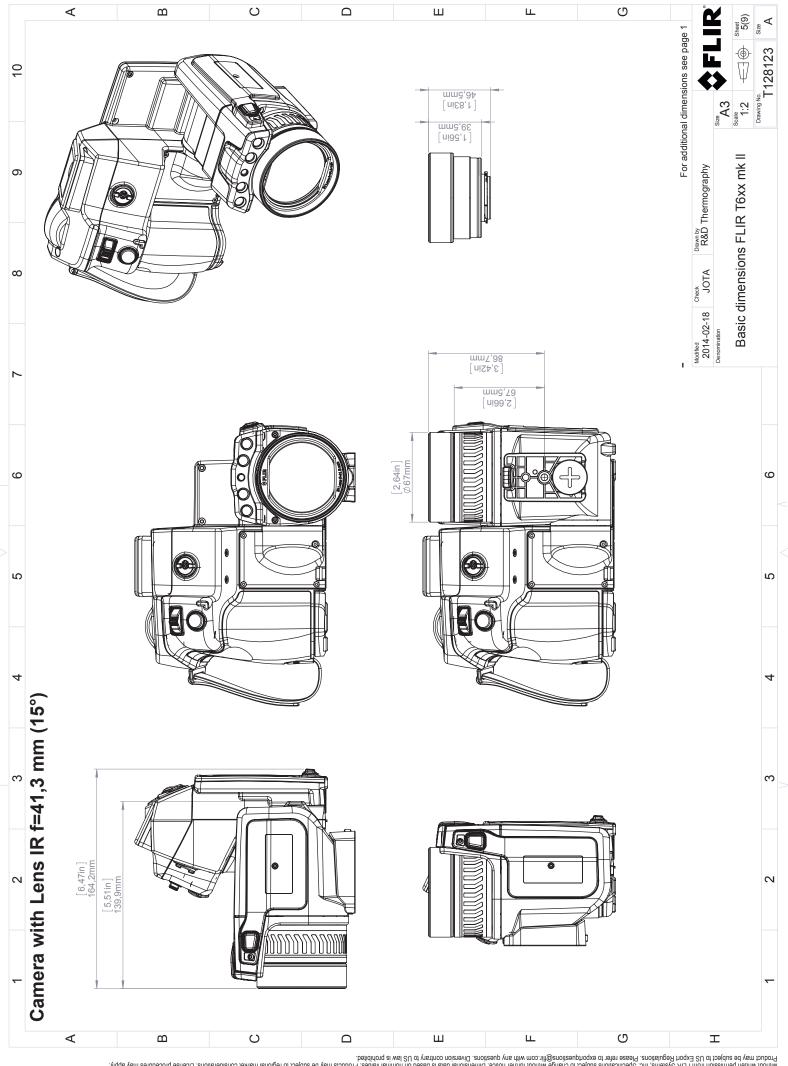
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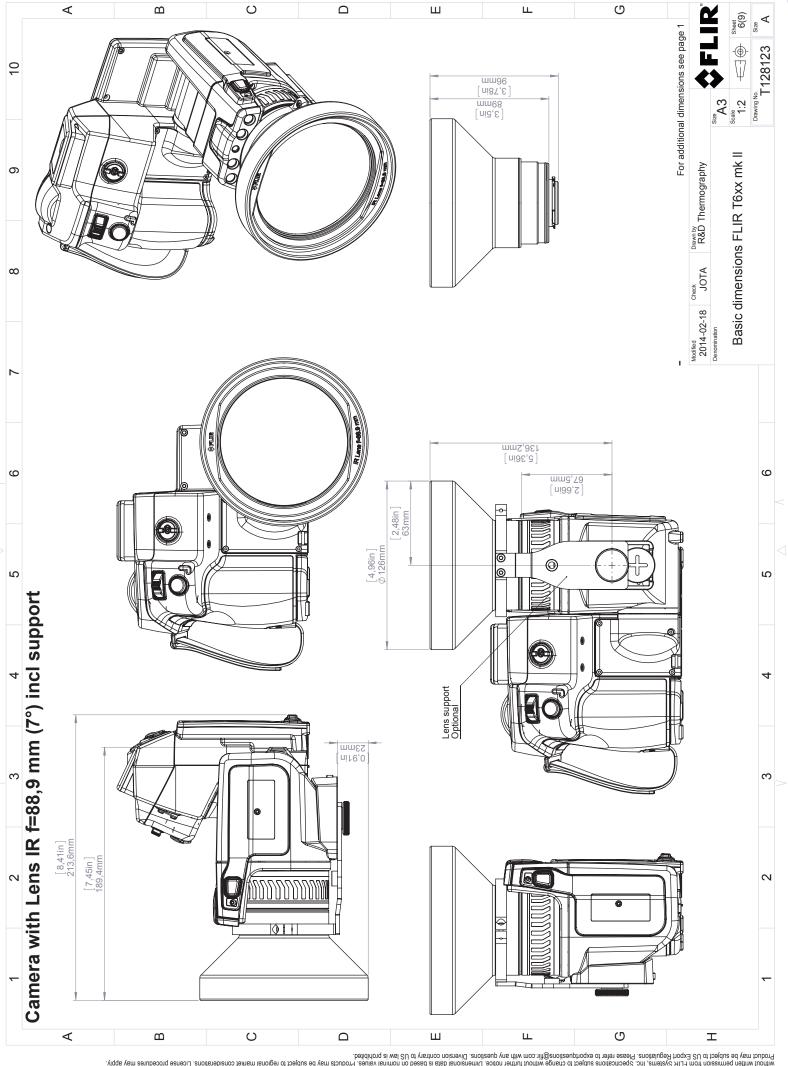
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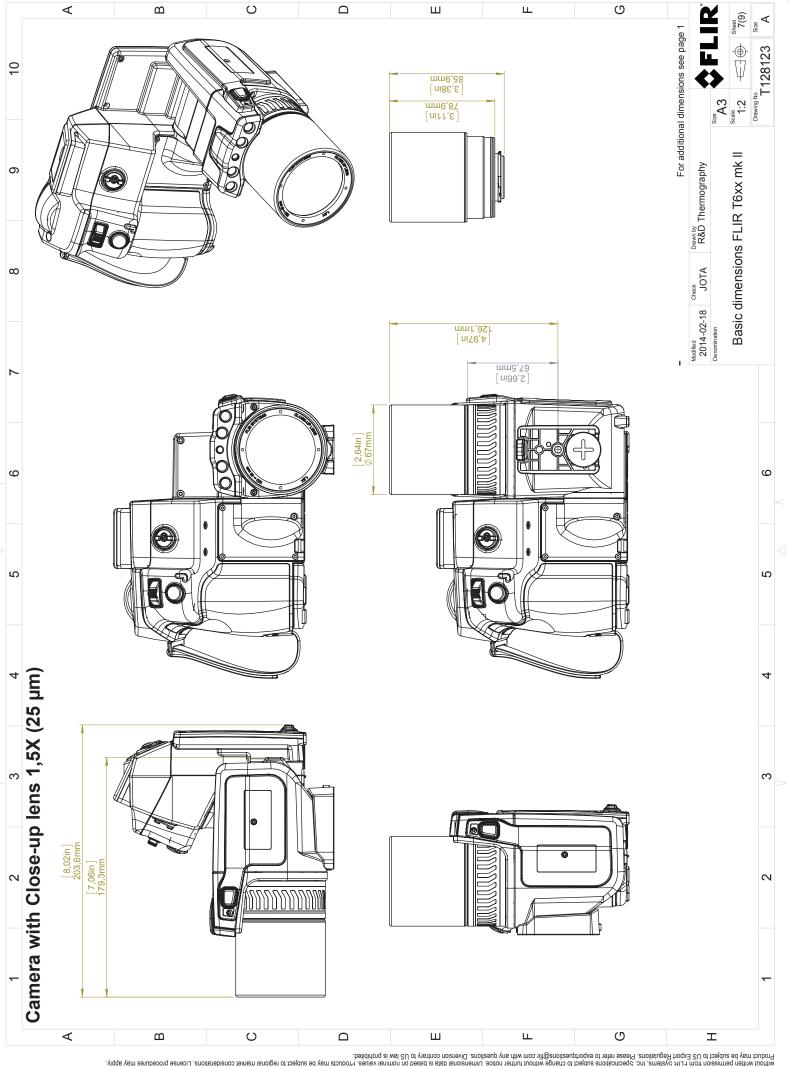
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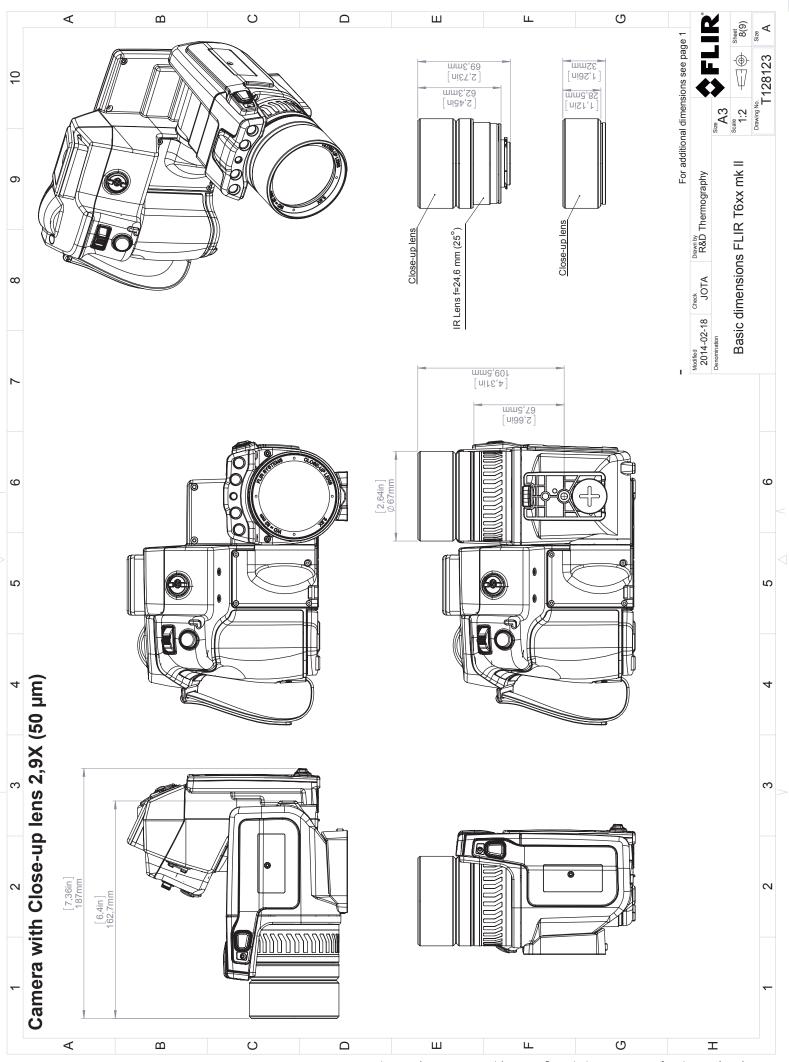
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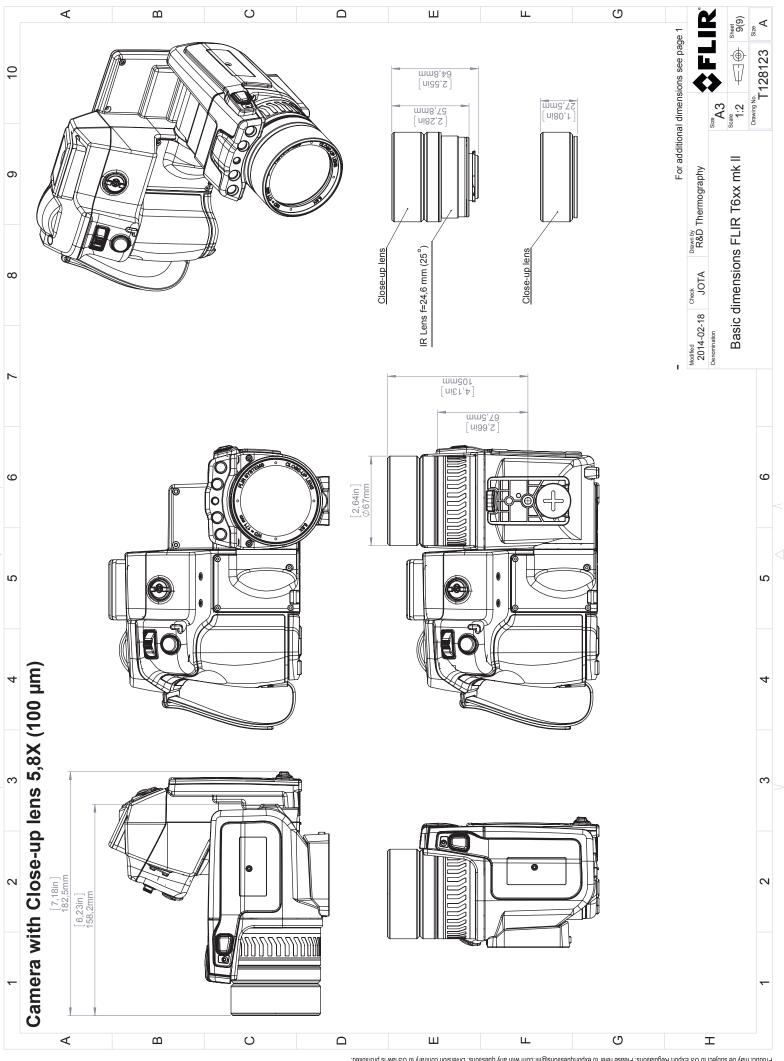
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January 19, 2018

Täby, Sweden

AQ320250

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR T6XX -series

Name and address of the manufacturer:

FLIR Systems AB PO Box 7376

SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR T6XX -series (Product Model Name FLIR-T5590).

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives:

Di	rective	
$\boldsymbol{\nu}$	ICCLIVE	

2012/19/EU

Waste electrical and electric equipment

Directive

1999/519/EC

Limitation of exposure to electromagnetic fields (SAR)

Directive

2011/65/EU

RoHS and 2015/830/EU (Phtalates)

Directive

2014/53/EU

Radio Equipment Directive (RED)

Standards:

Lm	CCI	an	
Emi	1551	OH	

EN 61000-6-3:2007

EMC - Generic standards

Immunity:

EN 61000-6-2:2005

Electromagnetic Compability Generic

EN 301489-1:2008 v1.8.0

ERM – EMC for radio equipment

EN 301489-17:2009 v2.1.1

ERM - EMC Wideband data

Laser: EN 60825-1 Safety of laser products

Radio:

ETSI EN 300 328 v2.1.1

Harmonized EN covering essential requirements of the R&TTE Directive

ETSI EN 301 893 v.2.1.1

5GHz WLAN

EN 303 413 v1.1.0

EN 50581:2012

Radio Spectrum Efficiency (gps)

SAR:

EN 50360:2001/A1:2012

Human exposure (300 MHz – 3 GHz)

EN 50566:2013/AC:2014

Handheld general public (30 MHz – 6 GHz)

Safety:

RoHS

IEC 60950-1:2005+A1:2009+

Information technology equipment

EN 60950-1:2006+A11:2009+A1:2010

Technical documentation

FLIR Systems AB

Quality Assurance

Lea Dabiri

Quality Manager