

### P/N: 55904-6322

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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  $640 \times 480$  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)	25° × 19°	
Minimum focus distance	0.25 m (0.82 ft.)	
Focal length	25 mm (0.97 in.)	
Spatial resolution (IFOV)	0.68 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, $800 \times 480$ 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	<ul> <li>-40°C to +150°C (-40°F to +302°F)</li> <li>+100°C to +650°C (+212°F to +1202°F)</li> </ul>	
Accuracy	$\pm 2^\circ C$ ( $\pm 3.6^\circ F) or 2\%, whichever is greater, at 25° C (77°F) nominal.$	
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	<ul> <li>Simultaneous storage of thermal and digital photo in same JPEG file.</li> <li>Optional to store digital photo as a separate JPEG file.</li> </ul>
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	<ul> <li>Instant Report (*.pdf file) in camera</li> <li>Separate PC software with extensive report generation</li> </ul>
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	
Non-radiometric IR video streaming	<ul> <li>MPEG-4 using Wi-Fi</li> <li>Uncompressed colorized video using USB</li> </ul>
Visual video streaming	<ul><li>MPEG-4 using Wi-Fi</li><li>Uncompressed colorized video using USB</li></ul>
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	<ul> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / uncompressed colorized video</li> </ul>
USB, standard	USB 2.0 high speed
Video output	
Video out	Digital video output (DVI)
Video, connector type	HDMI compatible
Radio	L.
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 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	<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 Class 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-247 Issue 2</li> </ul>			
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	<ul> <li>Infrared camera with lens</li> <li>Battery (2 ea.)</li> <li>Battery charger</li> <li>Bluetooth headset</li> <li>Calibration certificate</li> <li>Printed documentation</li> <li>HDMI-DVI cable</li> <li>HDMI-HDMI cable</li> <li>Hard transport case</li> <li>Large eyecap</li> <li>Lens cap</li> <li>Memory card</li> <li>Neck strap</li> <li>Power supply, incl. multi-plugs</li> <li>Tripod adapter</li> <li>USB cable, Std A to Mini-B</li> </ul>			
Packaging, weight	6.6 kg (14.6 lb.)			
Packaging, size	495 × 192 × 370 mm (19.49 × 7.56 × 14.57 in.)			
EAN-13	7332558006931			
UPC-12	845188007287			
Country of origin	Sweden			

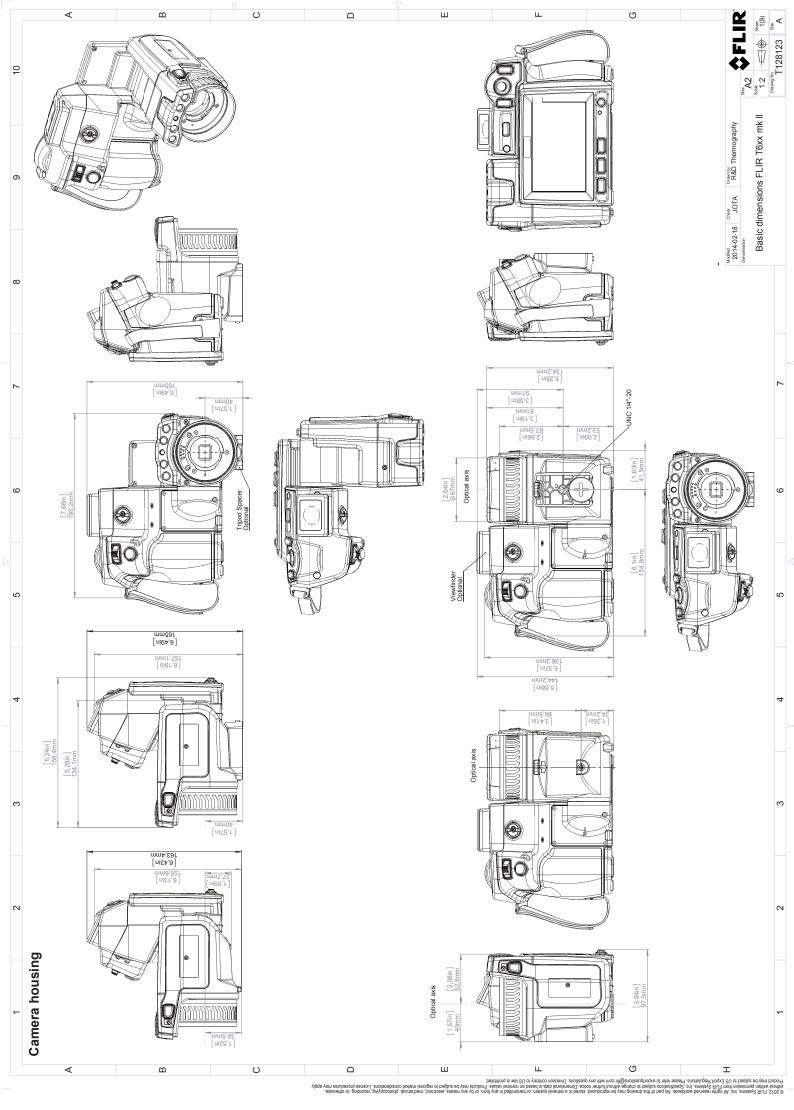


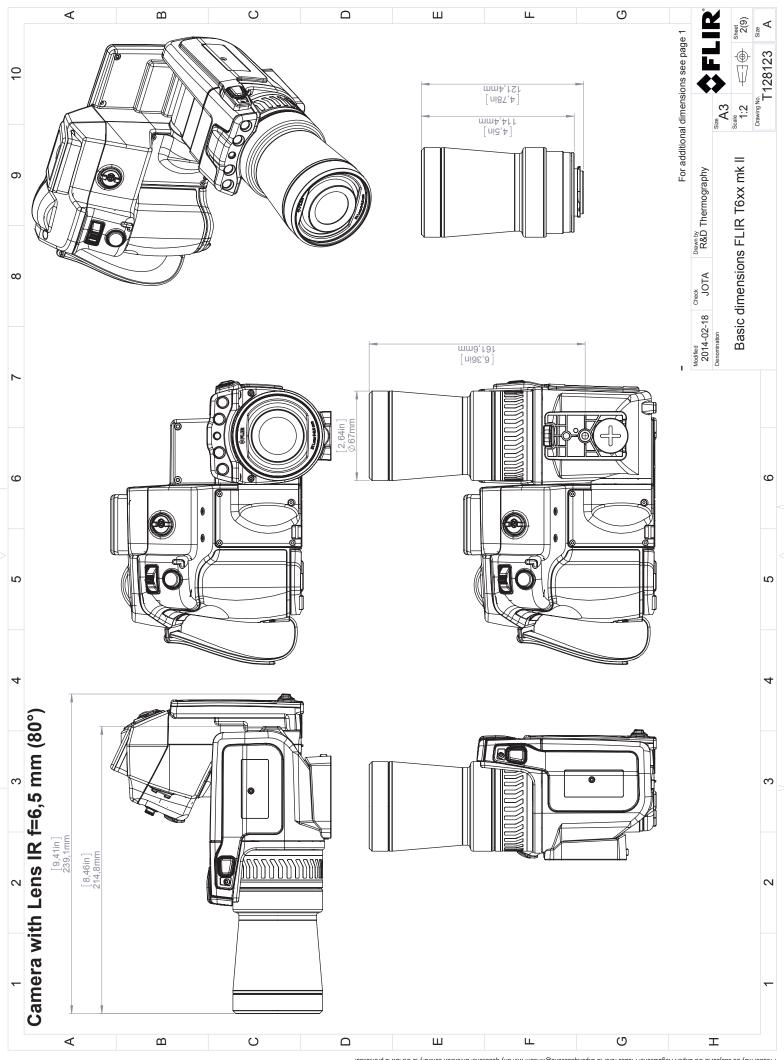
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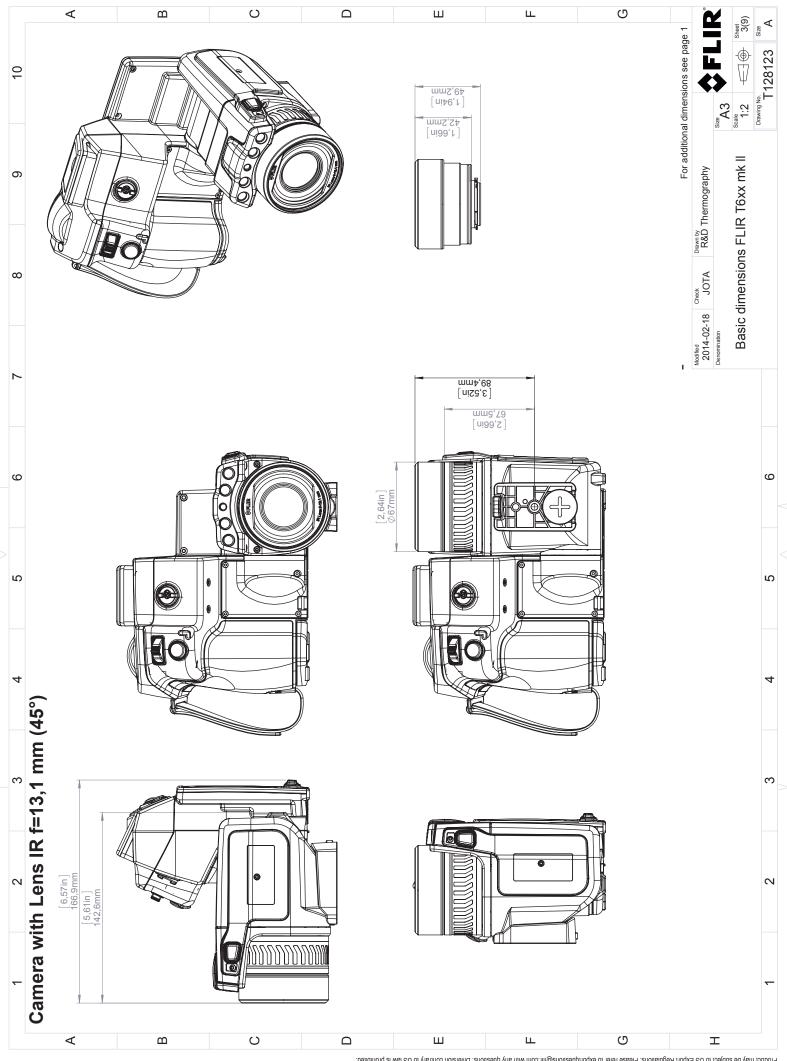
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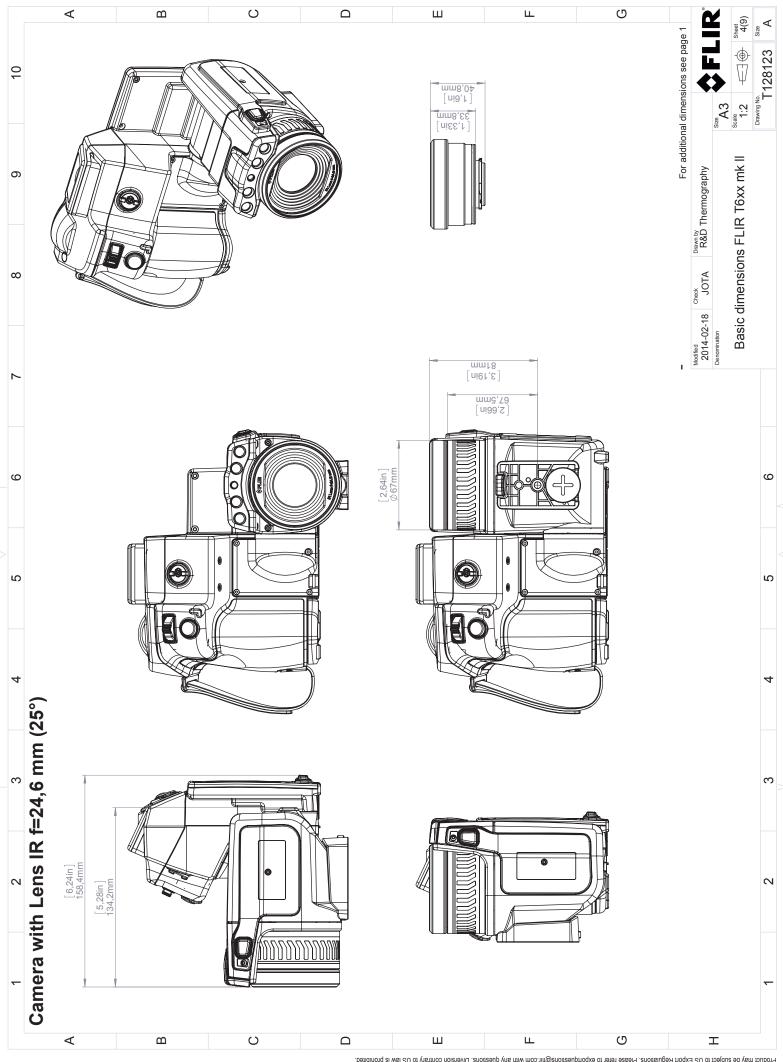
### Supplies & accessories:

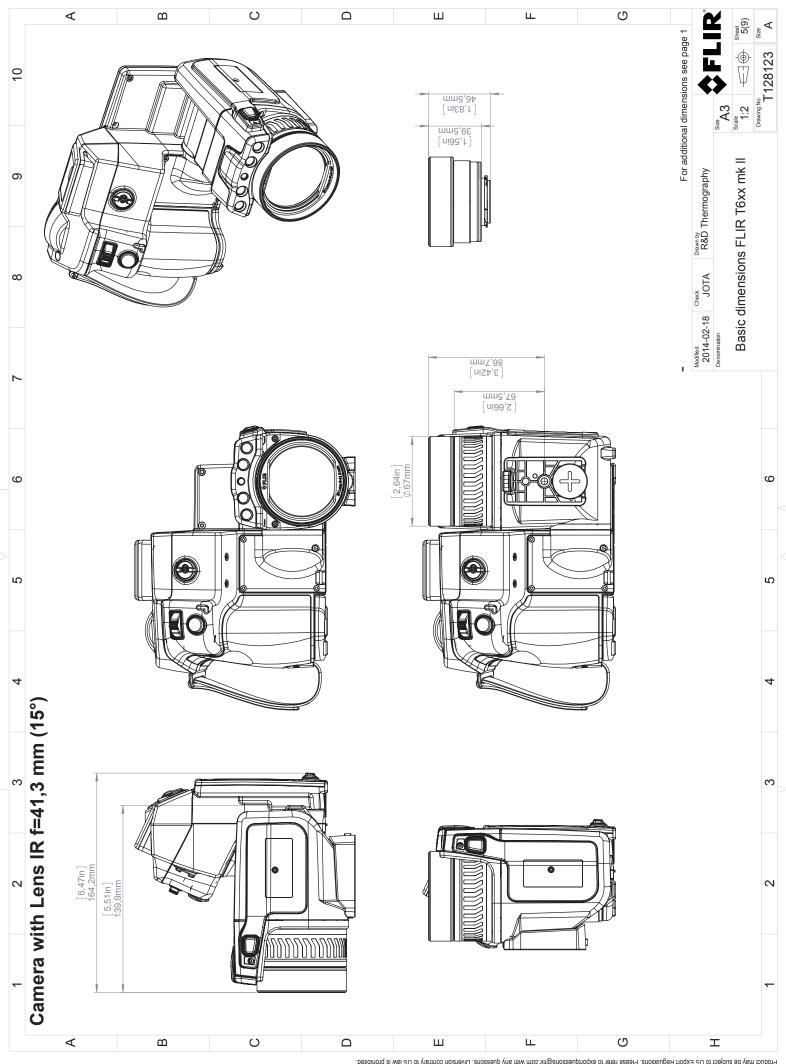
- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50  $\mu m)$  with case
- + T198060; Close-up IR lens, 5.8× (100  $\mu m)$  with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- + T198066; Close-up IR lens, 1.5× (25  $\mu m)$  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

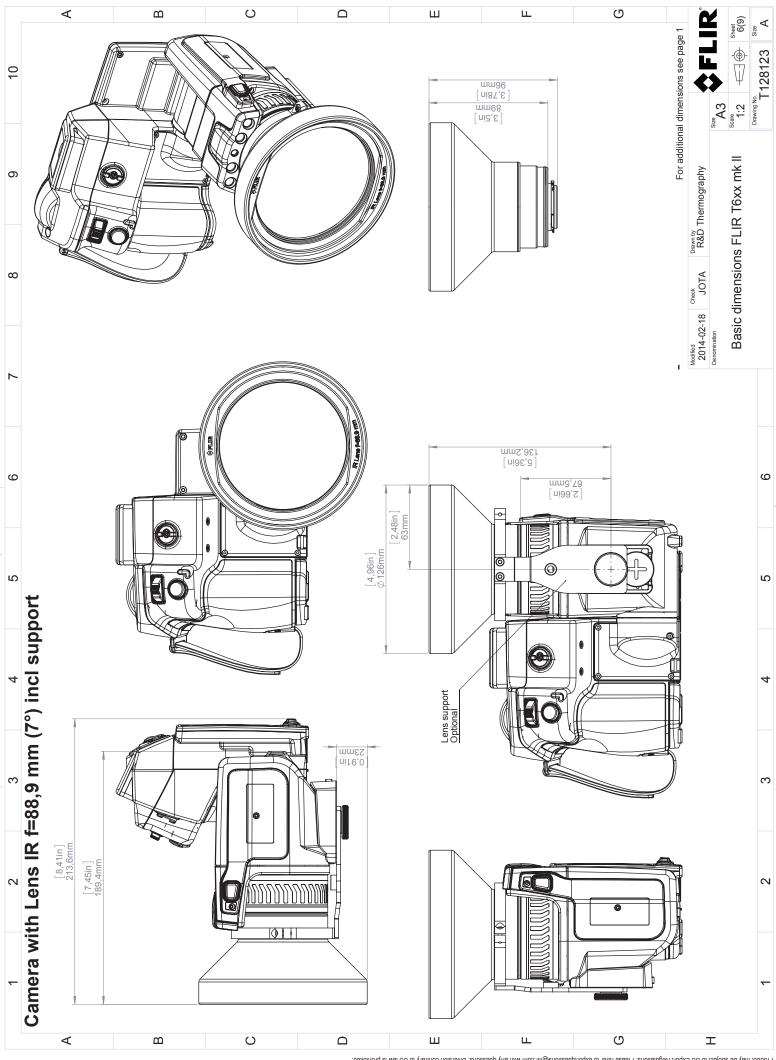




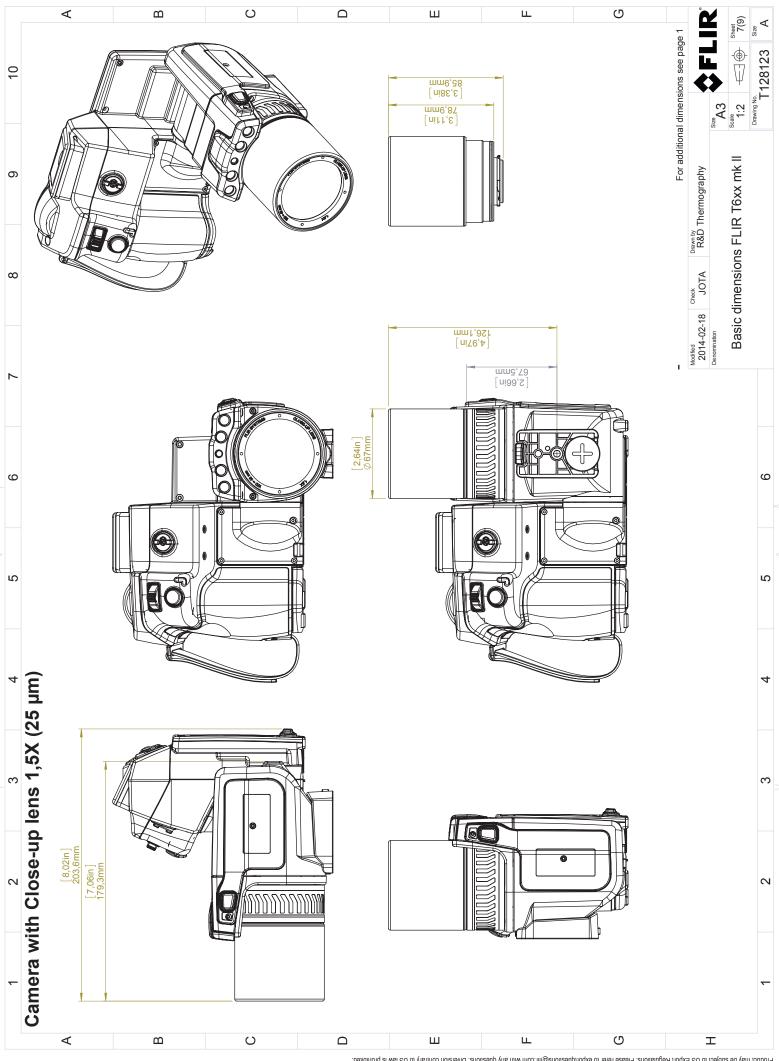




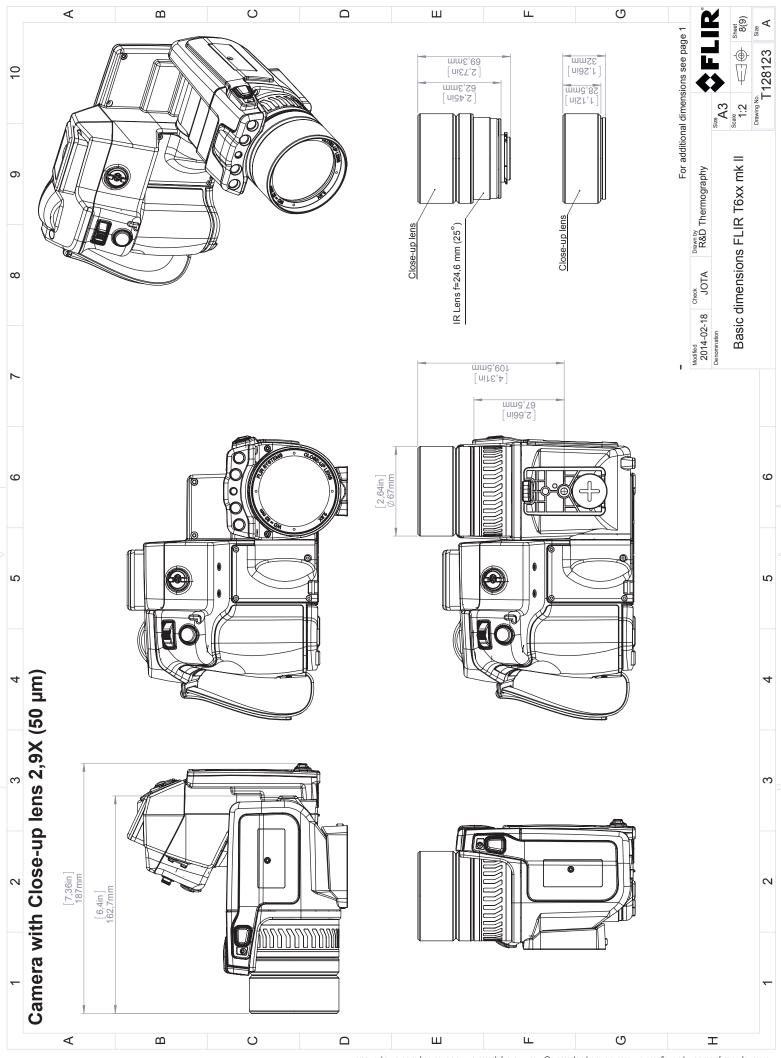


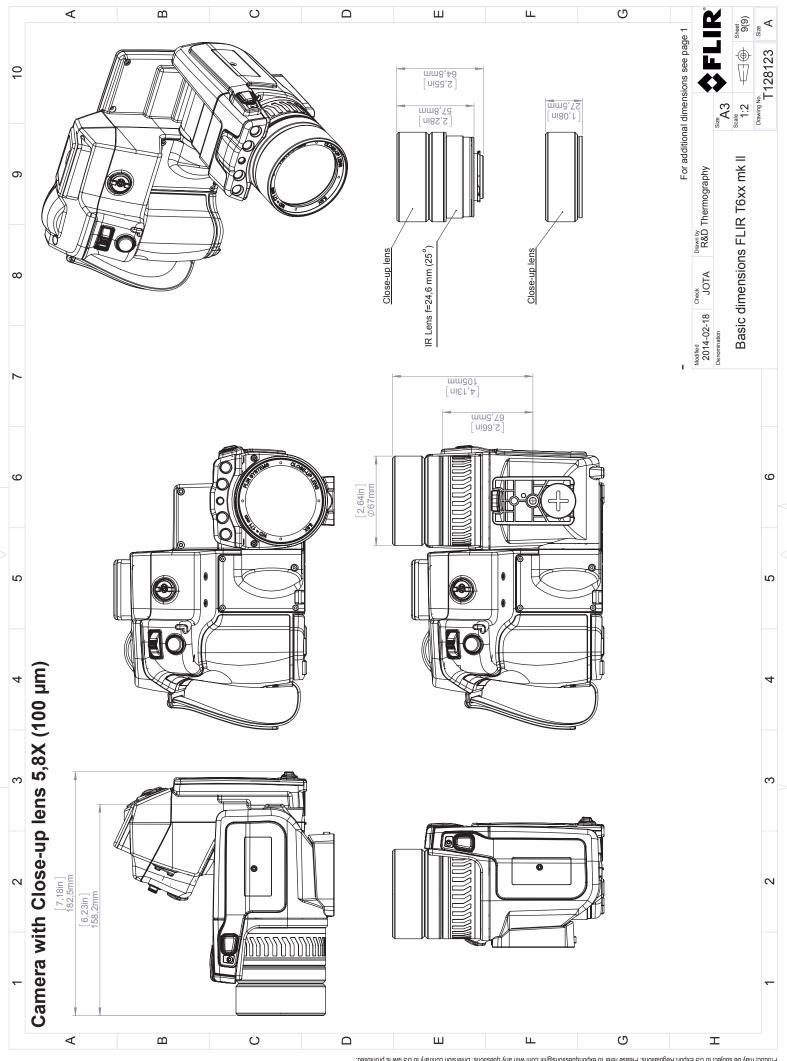


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January 19, 2018 Täby, Sweden

### 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:**

Directive Directive Directive Directive	2012/19/EU 1999/519/EC 2011/65/EU 2014/53/EU	Limitat RoHS a	electrical and electric equipment tion of exposure to electromagnetic fields (SAR) and 2015/830/EU (Phtalates) Equipment Directive (RED)
Standards:			
Emission:	EN 61000-6-3:2007		EMC – Generic standards
Immunity:	nmunity: EN 61000-6-2:2005 EN 301489-1:2008 v1.8.0 EN 301489-17:2009 v2.1.1		Electromagnetic Compability Generic
			ERM – EMC for radio equipment
			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	L	5GHz WLAN
	EN 303 413 v1.1.0		Radio Spectrum Efficiency (gps)
SAR:	EN 50360:2001/A1:201	.2	Human exposure (300 MHz – 3 GHz)
	EN 50566:2013/AC:201	.4	Handheld general public (30 MHz – 6 GHz)
Safety:	IEC 60950-1:2005+A1:2	2009+	Information technology equipment
	EN 60950-1:2006+A11:2009+A1:2010		
RoHS	EN 50581:2012		Technical documentation

FLIR Systems AB Quality Assurance

Lea Dabiri Quality Manager