

P/N: 55904-8525

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Document identity

Publ. No.: 55904-8525

Release: Commit: 35954 Language: en-US Modified: 2016-05-30 Formatted: 2017-02-25

Website

http://www.flir.com

Customer support

http://support.flir.com

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General description

The FLIR T660 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 T660 is flexible and can meet your every need.

Benefits:

- Highest performance with the latest technology: The FLIR T660 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. Continuous auto-focus makes the FLIR T660 the first fully automatic infrared camera on the market.
- 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 T640 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	<20 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	Continuous, one shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction



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Detector data		
Detector data Detector type Focal plane array (FPA), uncooled		
Detection type	microbolometer	
Spectral range	7.5–14 μm	
Detector pitch	17 μm	
Image presentation		
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 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) +300°C to +2000°C (+572°F to +3632°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	10	
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	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity	



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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, relative humidity, atmospheric temperature, ebleve 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 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 Perional to storage of thermal and digital photo in same JPEG file. Optional to storage of glipal photo as a separate JPEG file. Time lapse 15 seconds to 24 hours 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	Measurement analysis	
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Sketch Draw on thermal/digital photo or add predefined	Text	
	Image description	Add short note (stored in JPEG EXIF tag)
	Sketch	



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Image annotations (in still images)		
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		
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	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	5 Mpixels with LED light (photo as separate image)	
Digital camera, FOV	Adapts to the IR lens	
	raapte to the in there	
Video lamp	Built-in LED light	
Video lamp Laser pointer		
Laser pointer	Built-in LED light	
Laser pointer Laser	Built-in LED light Activated by dedicated button	
Laser pointer Laser Laser alignment	Built-in LED light Activated by dedicated button Position is automatic displayed on the IR image	
Laser pointer Laser Laser alignment Laser classification	Built-in LED light Activated by dedicated button Position is automatic displayed on the IR image Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635	
Laser pointer Laser Laser alignment Laser classification Laser type	Built-in LED light Activated by dedicated button Position is automatic displayed on the IR image Class 2 Semiconductor AlGalnP diode laser, 1 mW, 635	
Laser pointer Laser Laser alignment Laser classification Laser type Data communication interfaces	Built-in LED light Activated by dedicated button Position is automatic displayed on the IR image Class 2 Semiconductor AlGalnP diode laser, 1 mW, 635 nm (red) USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video	
Laser pointer Laser Laser alignment Laser classification Laser type Data communication interfaces Interfaces	Built-in LED light Activated by dedicated button Position is automatic displayed on the IR image Class 2 Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red) USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output Communication with headset and external	



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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
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-210
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



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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 HDMI-DVI cable HDMI-HDMI cable Hard transport case IR lens, f=13.1 mm (45°) with case Large eyecap Lens cap Memory card Neck strap Power supply, incl. multi-plugs Printed documentation Tripod adapter USB cable, Std A to Mini-B
EAN-13	7332558012109
UPC-12	845188013202
Country of origin	Sweden

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 μm) 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, $1.5 \times$ (25 μ 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
- T198506; Li-Ion Battery pack 3.7V 29Wh
- T199406ACC; Battery Li-ion 3.7 V, 7.8 Ah, 29 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
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198499; Neck strap
- T197771ACC; Bluetooth Headset

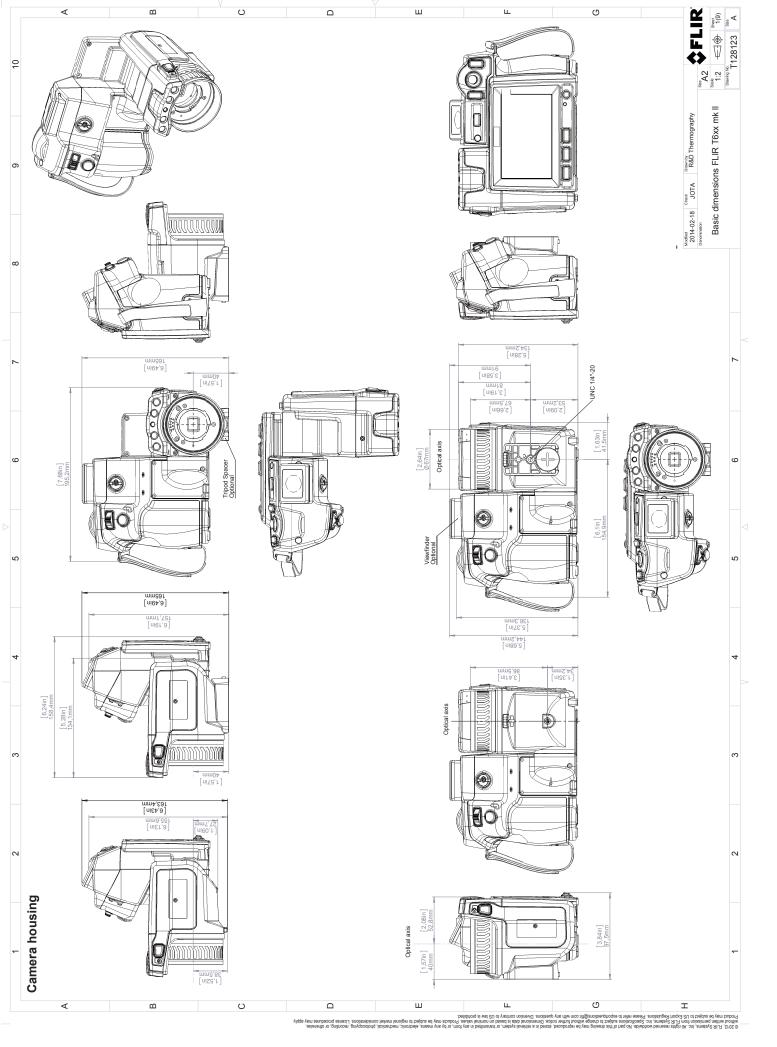
\$FLIR

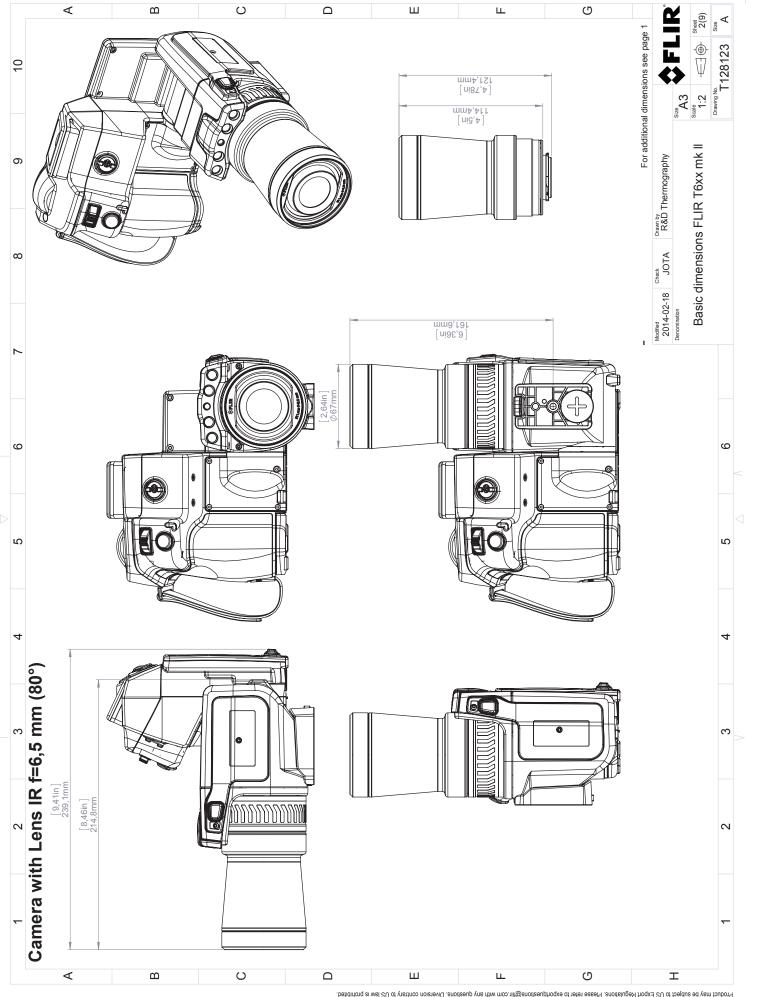
FLIR T660 25° and 45° w/case

P/N: 55904-8525

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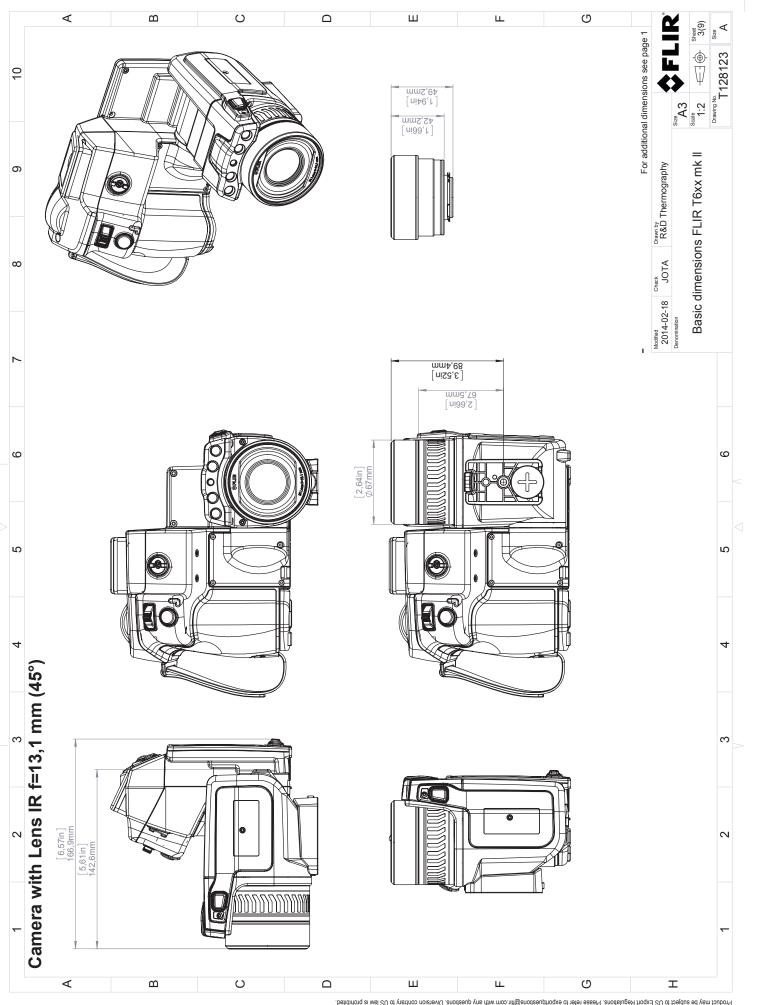
- T911093; Tool belt
- 19250-100; IR Window 2 in
- 19251-100; IR Window 3 in.
- 19252-100; IR Window 4 in.
- 19250-200; SS IR Window 2 in.
- 19251-200; SS IR Window 3 in.
- 19252-200; SS IR Window 4 in.
- T198496; Stylus pen
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- 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





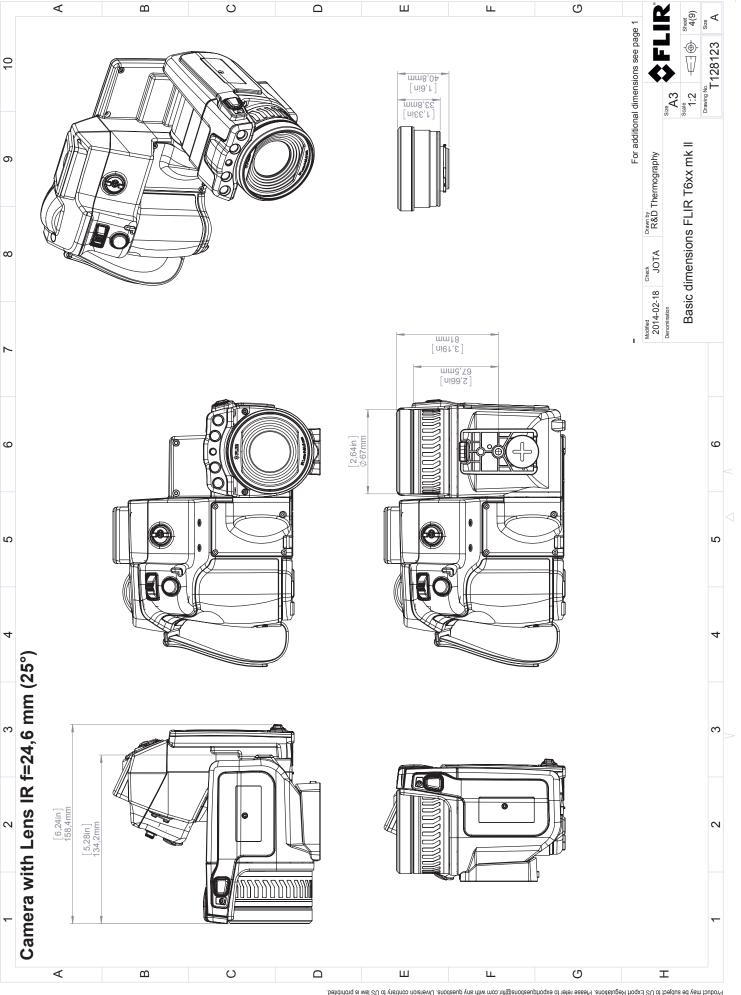
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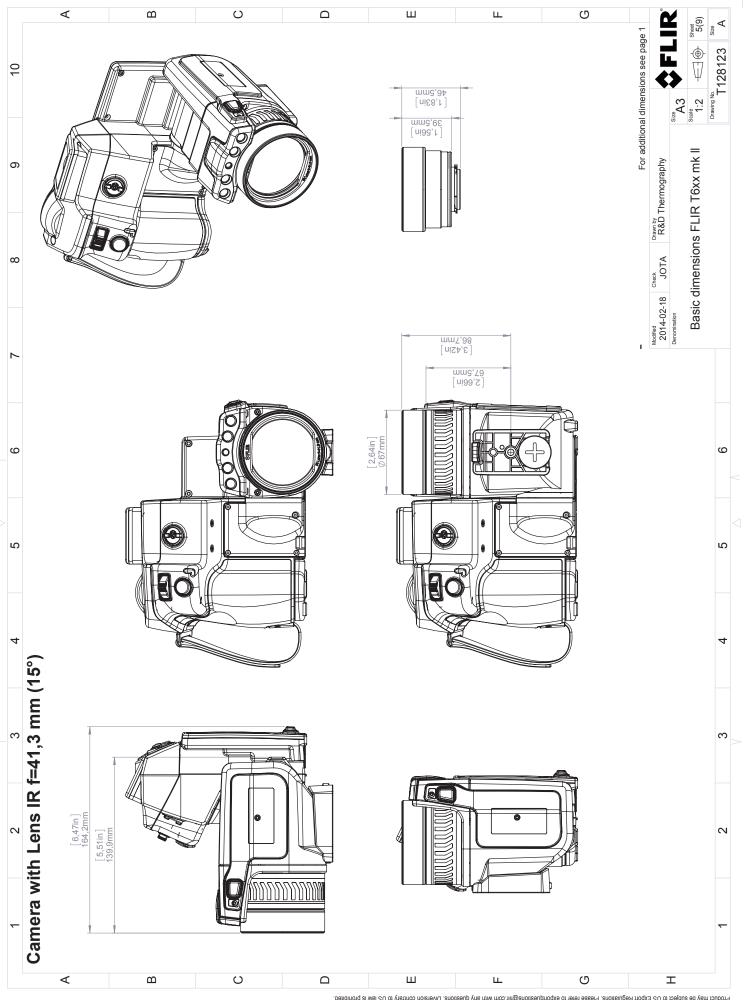
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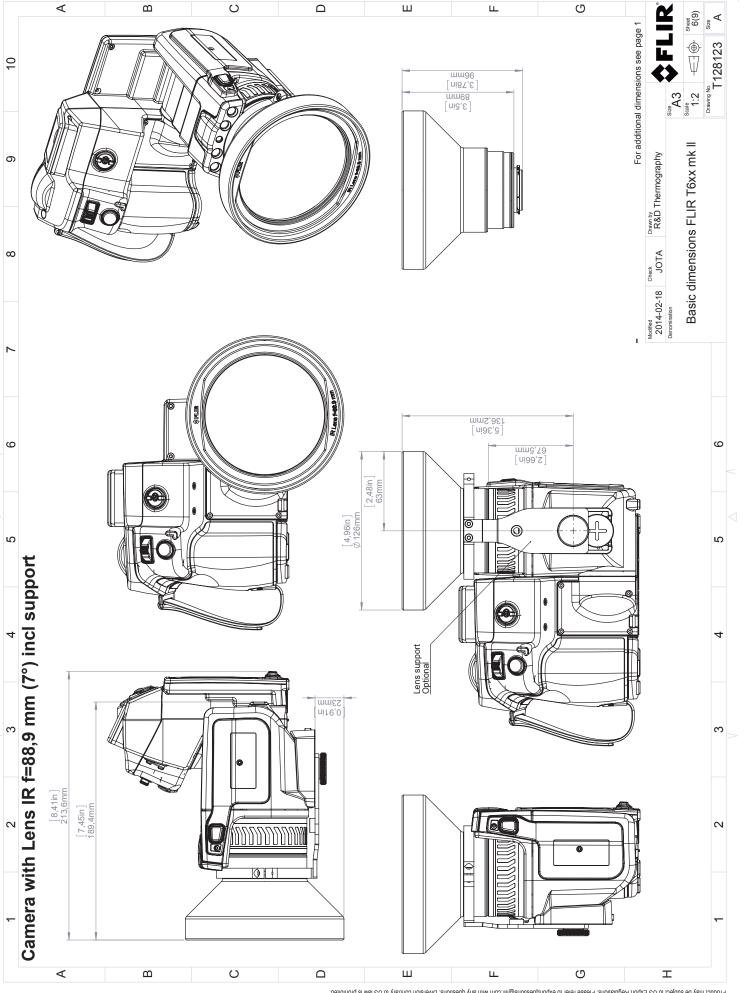
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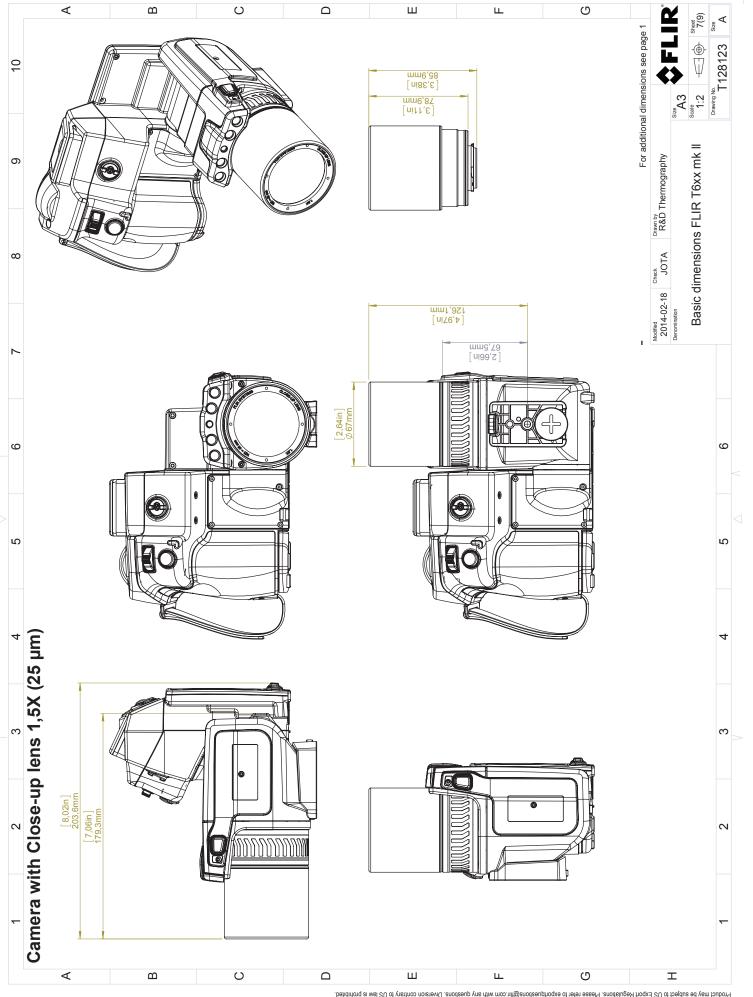
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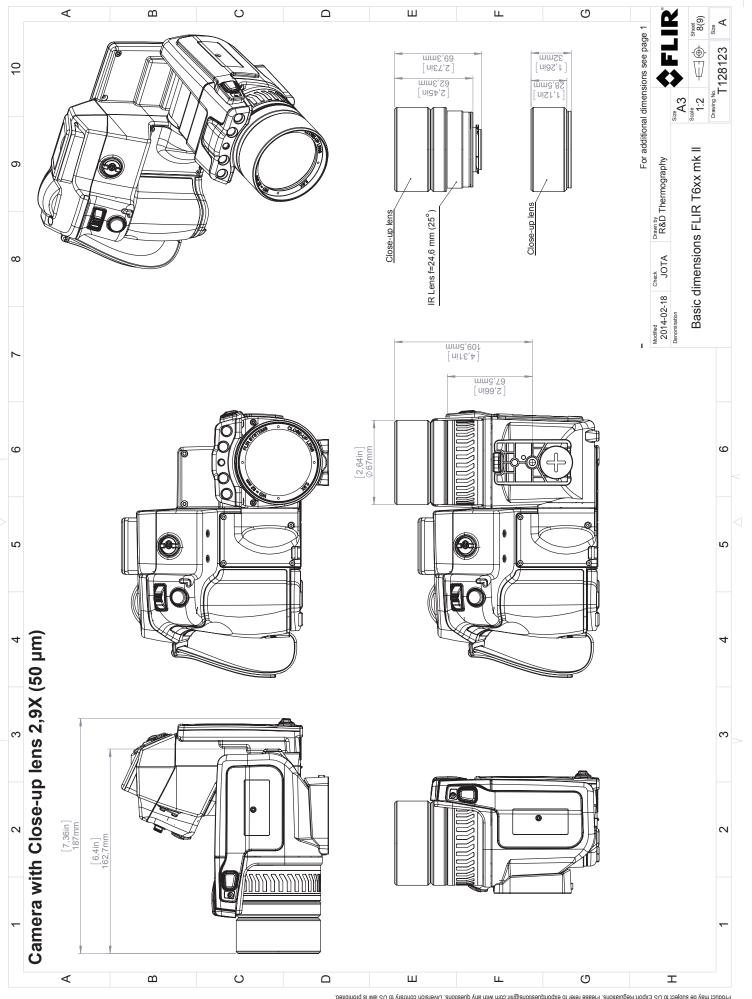
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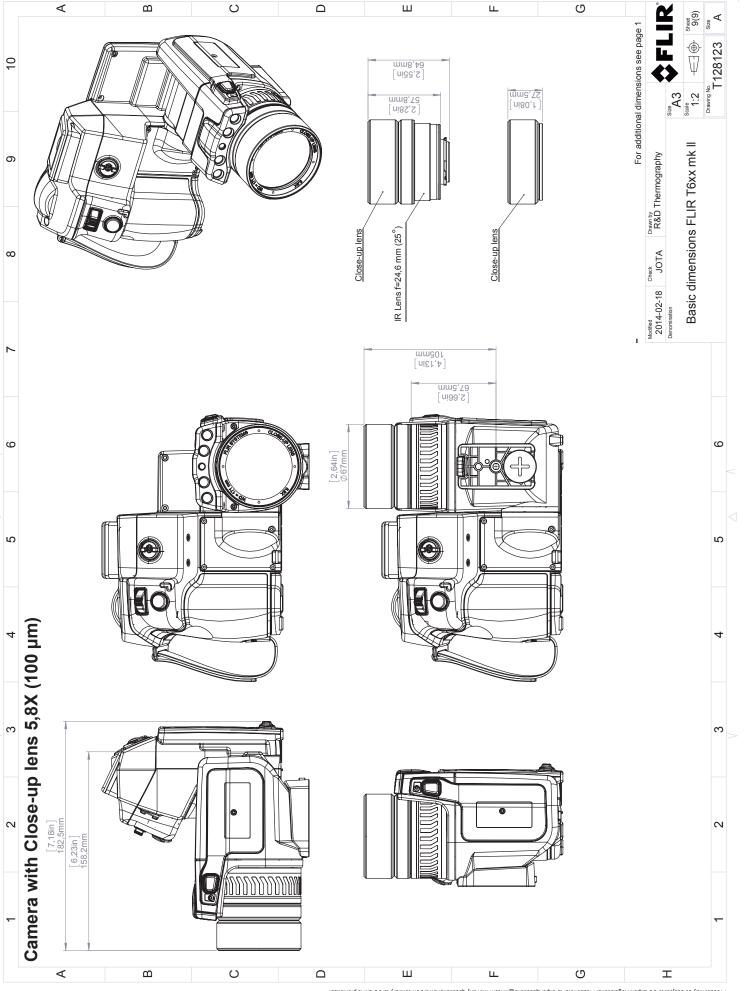
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March 25, 2013

AQ125879B

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

ETSI EN 301489

System:

FLIR T6xx series

FLIR Systems AB Quality Assurance

Björn Svensson

Director