

P/N: 72502-0503

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Website

http://www.flir.com

Customer support

http://support.flir.com

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



General description

The FLIR T1010 is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and feature-rich flexibility with superior image quality at an infrared resolution of 1024×768 pixels.

Benefits:

- Flexible and feature rich: A wide variety of measuring and analysis functions make the FLIR T1010 flexible for your every need. Two programmable buttons provide easy access to favorite functions.
- Highest performance with the latest technology: The FLIR T1010 is equipped with the innovative Multi Spectral Dynamic Imaging (MSX) feature, which produces an image richer in detail than ever before. With its continuous autofocus, the FLIR T1010 is a fully automatic infrared camera.
- Support for UltraMax: When enabling UltraMax in the camera, the resolution of images can be substantially enhanced when importing the images into a FLIR Thermography software.

Imaging and optical data	
IR resolution	1024 × 768 pixels
MSX resolution	1024 × 768 pixels
UltraMax	Yes
Thermal sensitivity/NETD	<25 mK @ +30°C (+86°F)
Field of view (FOV)	45° × 34°
Minimum IR focus distance	0.2 m (0.66 ft.)
Minimum IR-visual alignment distance	0.5 m (1.64 ft.)
Focal length	21.2 mm (0.83 in.)
Spatial resolution (IFOV)	0.80 mrad
Lens identification	Automatic
F-number	1.1
Image frequency	30 Hz
Focus	One shot or manual
Digital zoom	1–8× continuous
Digital image enhancement	Adaptive digital noise reduction

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Focal plane array (FPA), uncooled microbolometer	
7.5–14 μm	
17 μm	
Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels	
Capacitive touch screen	
Automatic landscape or portrait	
Standard or histogram based on the image content	
Linear based, possible to adjust level/span/max./ min.	
Thermal, thermal MSX, digital camera	
Full color infrared image	
Full color visual image	
Thermal image with enhanced detail presentation	
Review thumbnail/full image on the camera Edit measurements/palettes/image modes on the camera	
-40 to 150°C (-40 to 302°F) 0 to 650°C (32 to 1202°F)	
Range -40 to 150°C (-40 to 302°F): -40 to 5°C (-40 to 41°F): ±2°C (±3.6°F) 5 to 100°C (41 to 212°F): ±2°C (±3.6°F) 100 to 150°C (212 to 302°F): ±2% Range 0 to 650°C (32 to 1202°F): 0 to 100°C (32 to 212°F): ±2°C (±3.6°F)	

A special calibration is required for your T10xx camera to work with the HSI box. Therefore, the HSI box needs to be ordered with the camera, or when ordered separately, the special calibration can be added to the camera later on by a FLIR Service Center.

Screening mode	
Sampling average mode	Recommended temperature range: 30 to 45°C (86 to 113°F) in stable room temperature
	Accuracy (drift): ±0.3°C (±0.5°F)1

^{1.} No external blackbody needed.



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FLIR Inspection route	Enabled in the camera
	Enabled in the camera
Measurement analysis	
Spotmeter	1
Area	1 box with max./min./average
Profile	No
Automatic hot/cold detection	Auto hot or cold spotmeter markers within the area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
User presets	The user can select and combine measurements from one box, one delta.
Difference temperature	Delta temperature between the measurement functions and the reference temperature
Reference temperature	Yes
Atmospheric transmission correction	Automatic, based on the 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 the materials list
Reflected apparent temperature correction	Automatic, based on the input of the reflected temperature
External optics/windows correction	Automatic, based on the inputs of the window transmission and temperature
Measurement corrections	Emissivity, reflected temperature, relative humidity, atmospheric temperature, object distance, external infrared window compensation
Colors (palettes)	Iron, Rainbow, Rainbow HC, White hot, Black ho Arctic, Lava
Set-up	
Set-up commands	Save options, Programmable button, Reset options, Set up camera, Language, Time & units Camera information
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Swedish, traditional Chinese, Turkish
Service functions	
Camera software update	Using USB cable or SD card
Storage of images	T
	Standard JPEG, including digital image and
Image storage	measurement data, on a memory card



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Stavage of images		
Storage of images		
Image storage mode	Simultaneous storage of thermal and digital images in the same JPEG file Option to store a digital photo as a separate JPEG file	
File formats	Standard JPEG, measurement data included CSQ, measurement data included	
File formats, visual	Standard JPEG, automatically associated with the corresponding thermal image	
Video recording in camera		
Non-radiometric IR-video recording	H.264 to the memory card	
Visual video recording	H.264 to the memory card	
Video streaming		
Radiometric IR-video streaming	Real-time radiometric streaming (RTRS) via USB	
Non-radiometric IR-video streaming	H.264 video using USB	
Visual video streaming	H.264 video using USB	
Digital camera		
Built-in digital camera	5 Mpixel with LED light	
Digital camera	Field of view adapts to the infrared lens	
Video lamp	Built-in LED light	
Laser pointer		
Laser	Activated by a dedicated button	
Laser alignment	Position is automatically displayed on the infrared image	
Laser classification	Class 2	
Laser type	Semiconductor AlGaInP diode laser, 1 mW, 635 nm (red)	
Data communication interfaces		
Interfaces	USB Micro-B, HDMI	
SD Card	One card slot for removable SD memory cards	
USB		
USB	USB Micro-B: data transfer/video	
USB, standard	USB 2.0 High Speed USB Micro-B connector	
Video		
Video out	HDMI 640 × 480 HDMI 1280 × 720 DVI 640 × 480 DVI 800 × 600	
Video, connector type	HDMI type C	
Radio		
Antenna	Internal (disabled)	



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Power system	Ι
Battery type	Rechargeable Li ion battery
	>2.5 hours at 25°C (+68°F) and typical use
Battery operating time	` , , , , , , , , , , , , , , , , , , ,
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time	2.5 hours to 90% capacity, charging status indicated by LEDs
Charging temperature	0°C to +45°C (+32°F to +113°F), except for the Korean market: +10°C to +45°C (+50°F to +113°F)
External power operation	AC adapter 90–260 V AC, 50/60 Hz or 12 V from a vehicle (cable with a standard plug, optional)
Power management	Automatic power-off functionality, user configurable between 5 minutes, 20 minutes, and no automatic shutdown
Environmental data	
Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40 to +70°C (-40 to +158°F)
Humidity (operating and storage)	IEC 60068-2-30 / 24 hours, 95% relative humidity, 25–40°C (77–104°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 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
Ergonomics	The viewfinder plus the 120° rotating optical block allow you to point the camera in multiple directions while maintaining a comfortable position
Physical data	
Weight	1.9 kg (4.3 lb.)
Camera size, excl. lens $(L \times W \times H)$	167.2 mm × 204.5 mm × 180.4 mm (6.6 in. × 8.0 in. × 7.1 in.)
Tripod mounting	UNC 1/4"-20
Housing material	Magnesium
Warranty information	
Warranty	See http://www.flir.com/warranty/.
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FLIR T1010 45°

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Shipping information		
List of contents	Infrared camera with lens Battery (2 ea.) Battery charger Calibration certificate License card: FLIR Thermal Studio Pro (3 month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month subscription) Hard transport case HDMI-HDMI cable Lens cap Memory card Neck strap Power supply, including multi-plugs Printed documentation USB cable, Std A to Micro-B	
EAN-13	7332558014424	
UPC-12	845188016487	
Country of origin	Sweden	

Supplies & accessories:

- T199745; IR lens, f=142 mm (7°) with case and mounting support
- T199066; IR lens, f=21.2 mm (45°) with case
- T199064; IR lens, f=36 mm (28°) with case
- T199077; IR lens, f=83.4 mm (12°) with case
- 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
- T911975ACC; Memory card SD 16 GB
- 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
- T198869ACC; Hard transport case for FLIR T10xx series
- T300030; Option, No radio
- T300194; FLIR SC kit T10xx
- T128829ACC; Neck strap
- T850105; FLIR Inspection Route Camera Option
- T198533; USB cable Std A <-> Micro B
- T911093; Tool belt
- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10003; FLIR Tools Mobile (iPad/iPhone Application)
- T198586; FLIR Reporter Professional (license only)
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB
- 4220499; FLIR Research Studio 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio Perpetual License (online activation)
- 4220646; FLIR Research Studio Perpetual License (USB dongle)
- INST-EW-0170; Extended Warranty 1 Year for T10xx, GF7x

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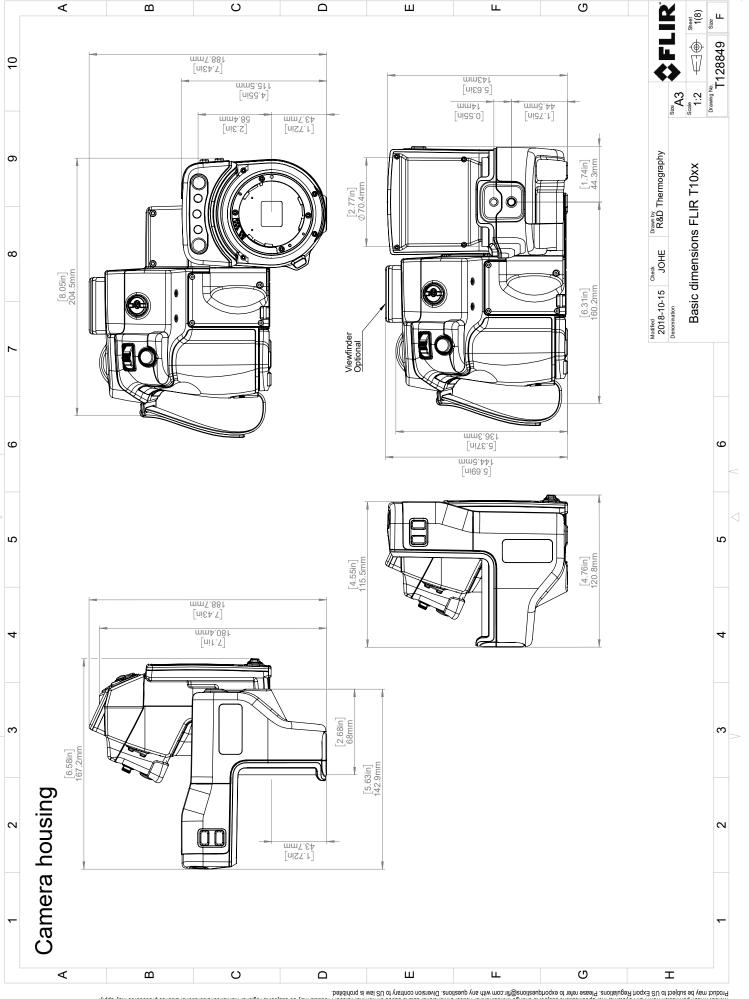
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FLIR T1010 45°

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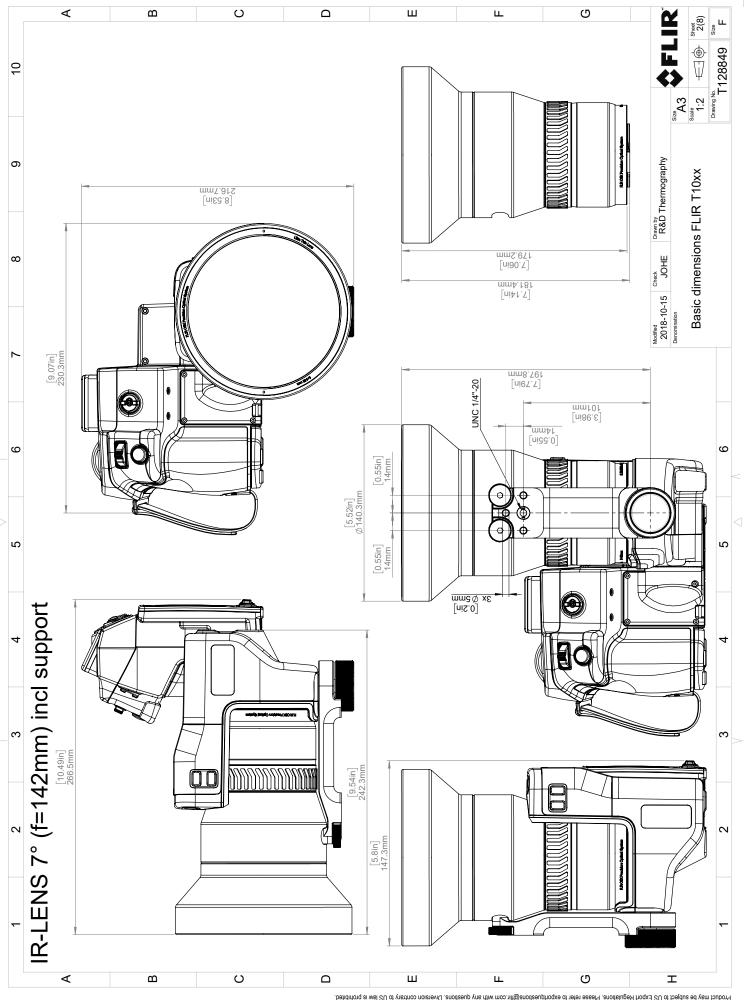
- INST-EWGM-0180; Premium Service Package for A310pt, T10xx, GF7x
- INST-GM-0160; General Maintenance Package for T10xx, GF7x, P6xx, X90, SC1000

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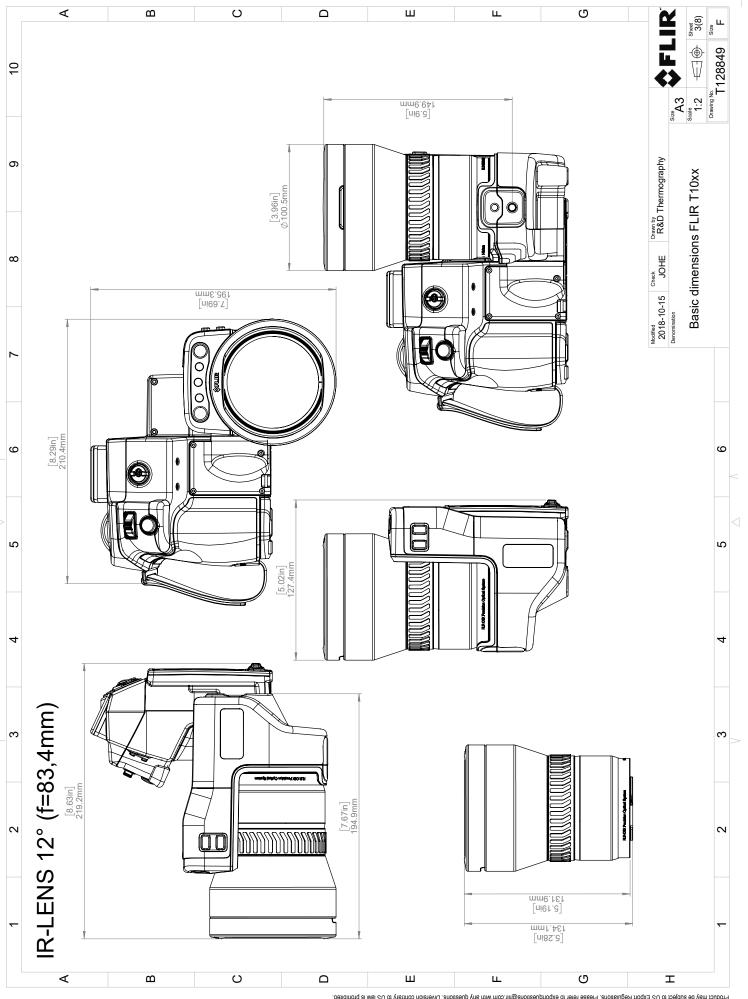
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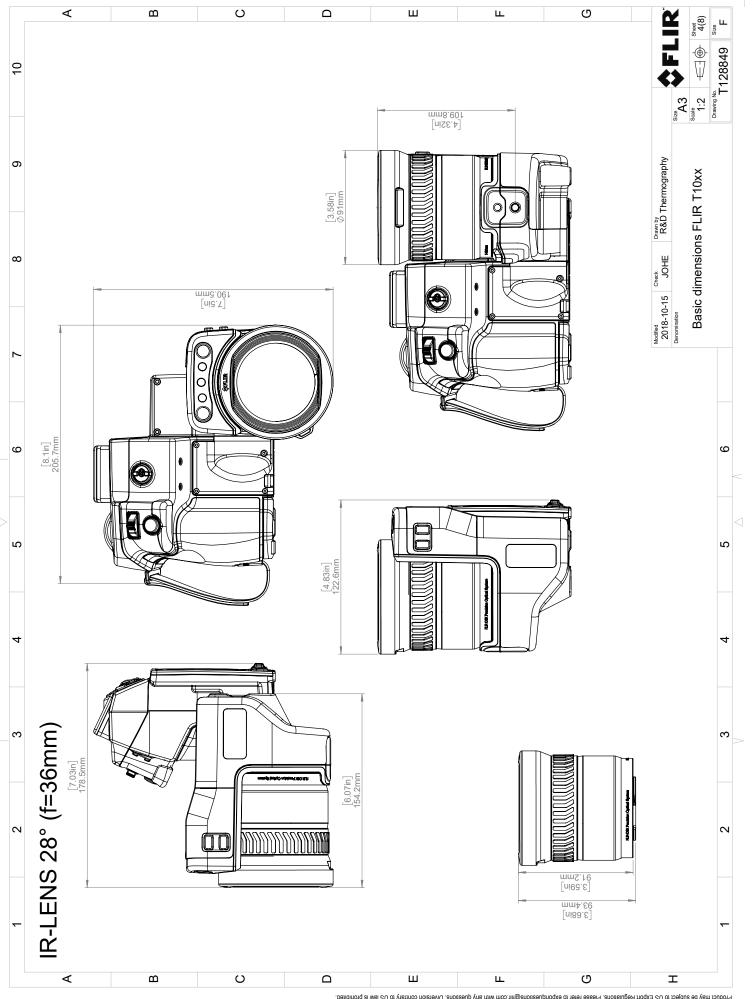


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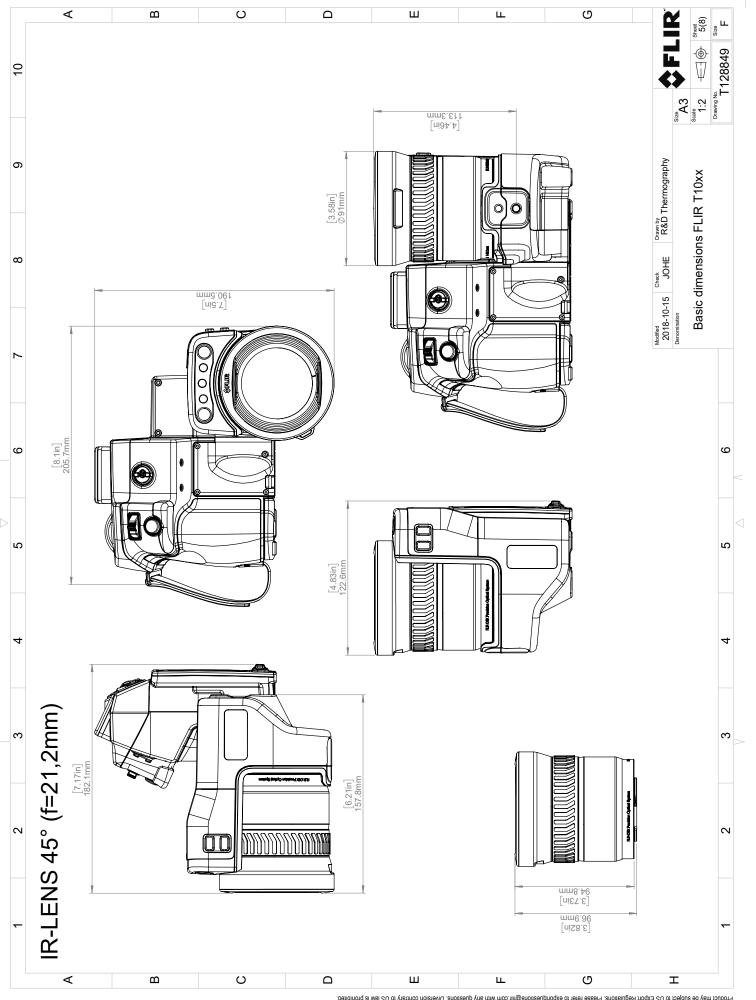


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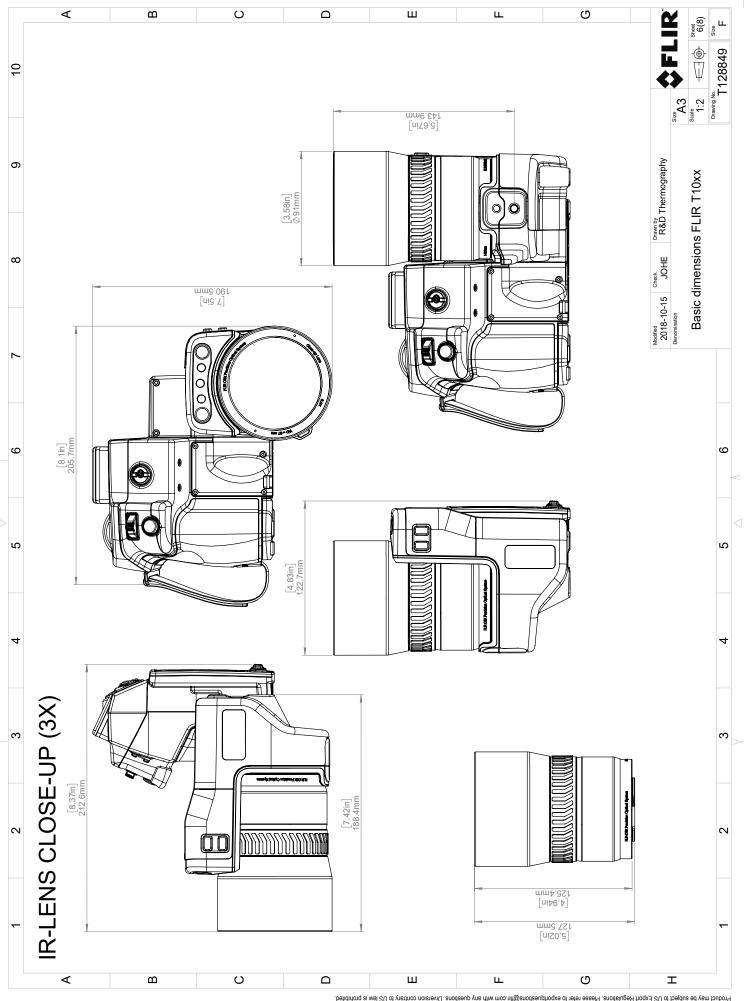


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Information technology equipment

November 13, 2017

Täby, Sweden

AQ320228

CE Declaration of Conformity - EU Declaration of Conformity

Product: FLIR T10XX -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 T10XX -series (Product Model Name FLIR-T7250).

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

	re			

Directive	2014/30/EU	Electromagnetic Compability
Directive	2014/35/EU	Low Voltage Directive
Directive	2012/19/EU	Waste electrical and electric equipment
Directive	2014/53/EU	Radio Equipment Directive (RED)
Directive	1999/519/EC	Limitation of exposure to electromagnetic fields (SAR)
Directive	2011/65/EU	RoHS

Standards:

Standards:		
Emission:	EN 61000-6-3:2007/A1:2011	Electromagnetic Compability Generic
	EN 301489-1:2011 v1.9.2	ERM – EMC for radio equipment
	EN 301489-17:2009 v2.2.1	ERM – EMC Wideband data
Immunity:	EN 61000-6-2:2005	Electromagnetic Compability Generic
	EN 301489-1:2011 v1.9.2	ERM – EMC for radio equipment
	EN 301489-17:2009 v2.2.1	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 RED Directive
	EN 303 413 v1.1.0	Radio Spectrum Efficiency (gps)
SAR:	EN 50566:2013	Handheld and body mounted wireless
RoHS:	EN 50581:2012	Technical documentation

EN 60950-1:2006+A11:2009+A1:2010+AC:2011+A12:2011

IEC 60950-1:2005+A1:2009

FLIR Systems ABQuality Assurance

Safety:

Lea Dabiri Quality Manager