

#### P/N: 62103-1301

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#### **General description**

The FLIR T440 is a camera that offers good performance at an affordable price. Excellent ergonomics, a walk-up-and-use interface, and easy communication make the FLIR T440 a truly user-friendly camera for the beginner or advanced user.

#### Benefits:

- Excellent ergonomics: The FLIR T440 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 T440 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 the 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 T440 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	<40 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×

Detector data	
Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm



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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	<ul> <li>-20°C to +120°C (-4°F to +248°F)</li> <li>0°C to +650°C (+32°F to +1202°F)</li> <li>+250°C to +1200°C (+482°F to +2192°F)</li> </ul>
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 areas (boxes or circles) with max./min./average
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	The user can select and combine measurements from any number of 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
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



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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. Optional to store digital photo as separate JPEG.  Time lapse  15 seconds to 24 hours  Image annotations (in still images)  Voice  60 seconds (via Bluetooth) stored with the image Add table. Select between predefined templates or create your own in FLIR Tools  Image description  Add short note (stored in JPEG exif tag)  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  Non-radiometric IR-video recording  MPEG-4 to memory card  Video streaming  Full dynamic to PC using USB or to mobile devices using Wi-Fi.  Non-radiometric IR-video streaming  Full dynamic to PC using USB or to mobile devices 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  Built-in digital camera  Fixed focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Digital camera, aspect ratio  4:3	Storage of images	
in same JPEG. Optional to store digital photo as separate JPEG. 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  Non-radiometric IR-video recording MPEG-4 to memory card  Visual video recording MPEG-4 to memory card  Video streaming  Full dynamic to PC using USB or to mobile devices 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  Built-in digital camera, focus Fixed focus  Digital camera, FOV Adapts to the IR lens  Built-in digital lens data FOV 53° x 41°  Digital camera, aspect ratio 4:3		
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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  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. Uncompressed colorized video using USB  Visual 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  3.1 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Built-in digital lens data  FOV 53° x 41°  Digital camera, aspect ratio  4:3	Voice	60 seconds (via Bluetooth) stored with the image
Sketch  Draw on thermal/digital photo or add predefined stamps  METERLINK  Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Peport generation  Instant Report (*,pdf file) in camera including IR and visual images Separate PC software with extensive report generation  Compass  Camera direction automatically added to every still image  Video recording in camera  Non-radiometric IR-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.  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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio	Text	
stamps  METERLINK  Wireless connection (Bluetooth) to: FLIR meters with METERLINK  Peport generation  Instant Report (*.pdf file) in camera including IR and visual images Separate PC software with extensive report generation  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  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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio	Image description	Add short note (stored in JPEG exif tag)
FLIR meters with METERLINK  Report generation  Instant Report (*,pdf file) in camera including IR and visual images Separate PC software with extensive report generation  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  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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio	Sketch	· .
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  Non-radiometric IR-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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  POV 53° × 41°  Digital camera, aspect ratio	METERLINK	Wireless connection (Bluetooth) to:
Instant Report   Dan lie) in Carnera Including   IR and visual images   Separate PC software with extensive report generation		FLIR meters with METERLINK
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  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 Mpixel with LED light (photo as separate image)  Digital camera, focus Fixed focus  Digital camera, FOV Adapts to the IR lens  Built-in digital lens data FOV 53° × 41°  Digital camera, aspect ratio 4:3	Report generation	IR and visual images • Separate PC software with extensive report
Video recording in camera  Non-radiometric IR-video recording  Wisual 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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Geographic Information System	
Non-radiometric IR-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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Compass	
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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Video recording in camera	
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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Non-radiometric IR-video recording	MPEG-4 to memory card
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  Wisual video streaming  MPEG-4 using Wi-Fi Uncompressed colorized video using USB  Digital camera  Built-in digital camera  3.1 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Visual video recording	MPEG-4 to memory card
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 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Video streaming	
Uncompressed colorized video using USB  MPEG-4 using Wi-Fi Uncompressed colorized video using USB  Digital camera  Built-in digital camera  3.1 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Radiometric IR-video streaming	
Visual video streaming  MPEG-4 using Wi-Fi Uncompressed colorized video using USB  Digital camera  Built-in digital camera  3.1 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Non-radiometric IR-video streaming	MPEG-4 using Wi-Fi
Uncompressed colorized video using USB  Digital camera  Built-in digital camera  3.1 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3		Uncompressed colorized video using USB
Digital camera         Built-in digital camera       3.1 Mpixel with LED light (photo as separate image)         Digital camera, focus       Fixed focus         Digital camera, FOV       Adapts to the IR lens         Built-in digital lens data       FOV 53° × 41°         Digital camera, aspect ratio       4:3	Visual video streaming	MPEG-4 using Wi-Fi
Built-in digital camera  3.1 Mpixel with LED light (photo as separate image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3		Uncompressed colorized video using USB
image)  Digital camera, focus  Fixed focus  Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Digital camera	
Digital camera, FOV  Adapts to the IR lens  Built-in digital lens data  FOV 53° × 41°  Digital camera, aspect ratio  4:3	Built-in digital camera	
Built-in digital lens data FOV 53° × 41°  Digital camera, aspect ratio 4:3	Digital camera, focus	Fixed focus
Digital camera, aspect ratio 4:3	Digital camera, FOV	Adapts to the IR lens
3	Built-in digital lens data	FOV 53° × 41°
Locarnainter	Digital camera, aspect ratio	4:3
Laser pointer		
Laser Activated by dedicated button	Laser	Activated by dedicated button
Laser alignment Position is automatic displayed on the IR image	Laser alignment	Position is automatic displayed on the IR image
Laser classification Class 2	Laser classification	Class 2
Laser type Semiconductor AlGalnP diode laser	Laser type	Semiconductor AlGaInP diode laser



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Laser pointer	
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 (adhoc) 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)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on
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



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Environmental data	
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 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-210</li></ul>
Magnetic fields	EN 61 000-4-8, Test level 5 for continous field (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 $\times$ W $\times$ H)	$106 \times 201 \times 125$ mm (4.2 $\times$ 7.9 $\times$ 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 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, weight	5.7 kg (12.6 lb.)
Packaging, size	$495 \times 192 \times 370 \text{ mm} (19.49 \times 7.56 \times 14.57 \text{ in.})$
EAN-13	7332558006498
UPC-12	845188006846
Country of origin	Sweden

### Supplies & accessories:

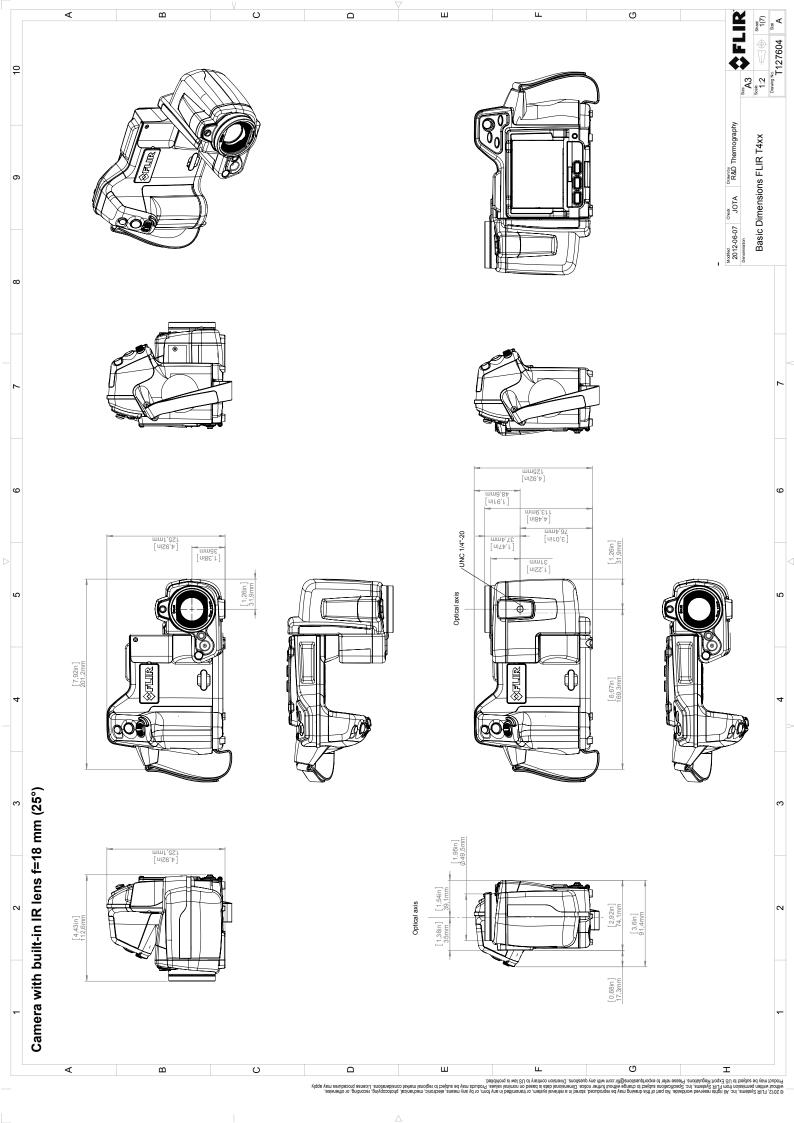
- 1196961; IR lens, f = 30 mm,  $15^{\circ}$  incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case

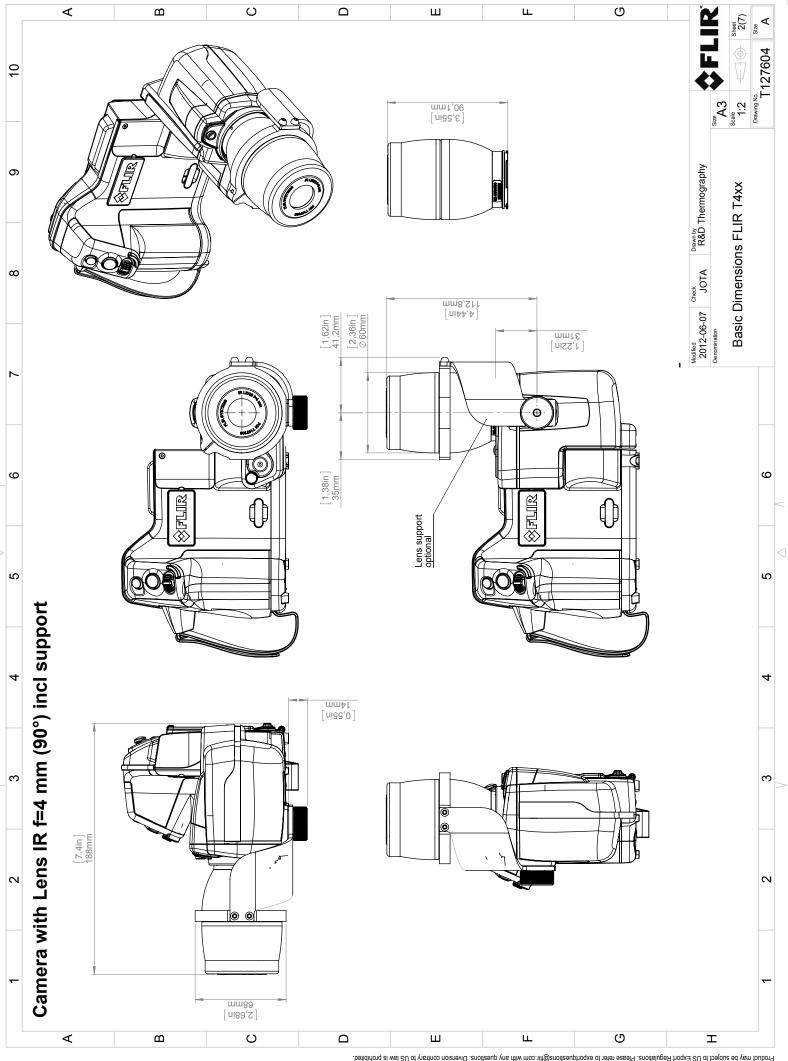


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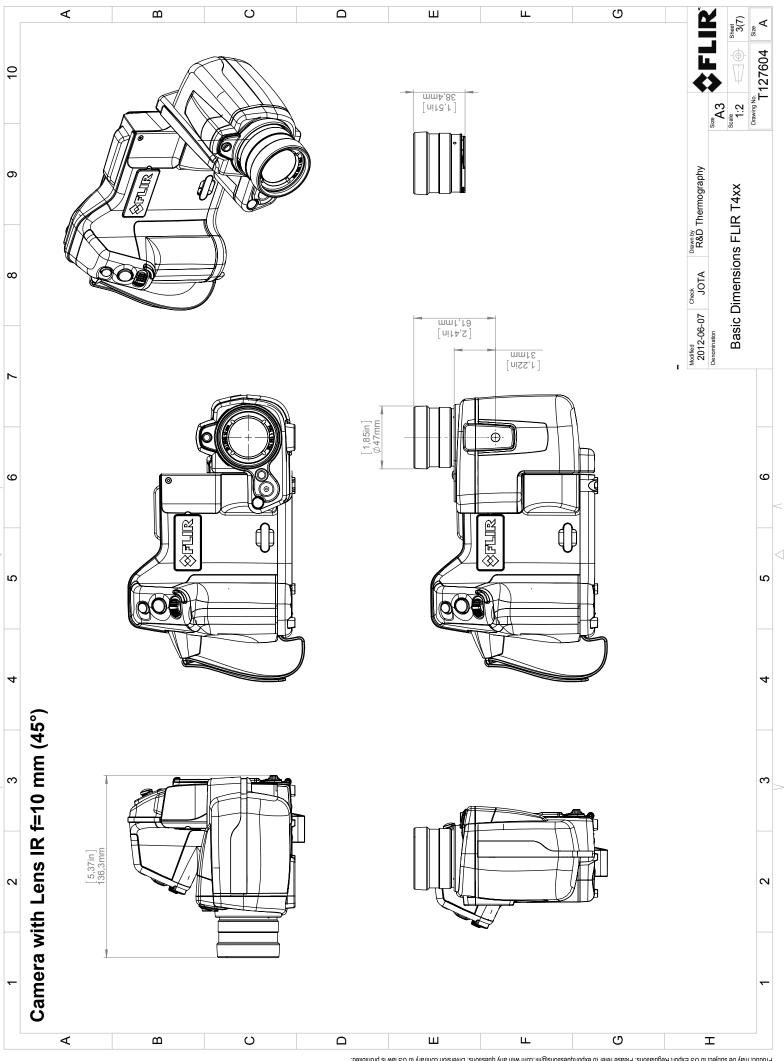
- T197214; Close-up 2× (50 μm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T910814; Power supply, incl. multi plugs
- · T197667; Battery package
- T197650; 2-bay battery charger, 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
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583; FLIR Tools+ (license only)
- · DSW-10000; FLIR IR Camera Player
- · APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T198696; FLIR ResearchIR Max 4
- T198697; FLIR ResearchIR Max + HSDR 4
- T198578; FLIR ResearchIR 3 (license only)
- T198574; FLIR ResearchIR 3 Max (license only)
- T198731; FLIR ResearchIR Standard 4





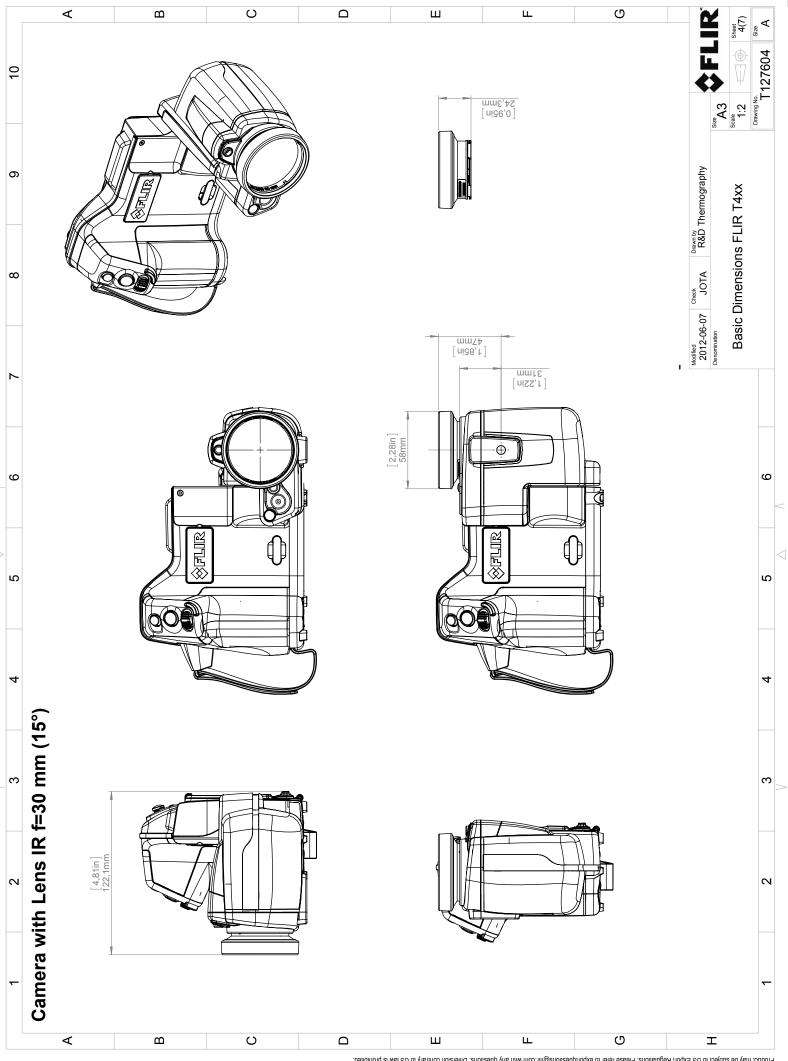
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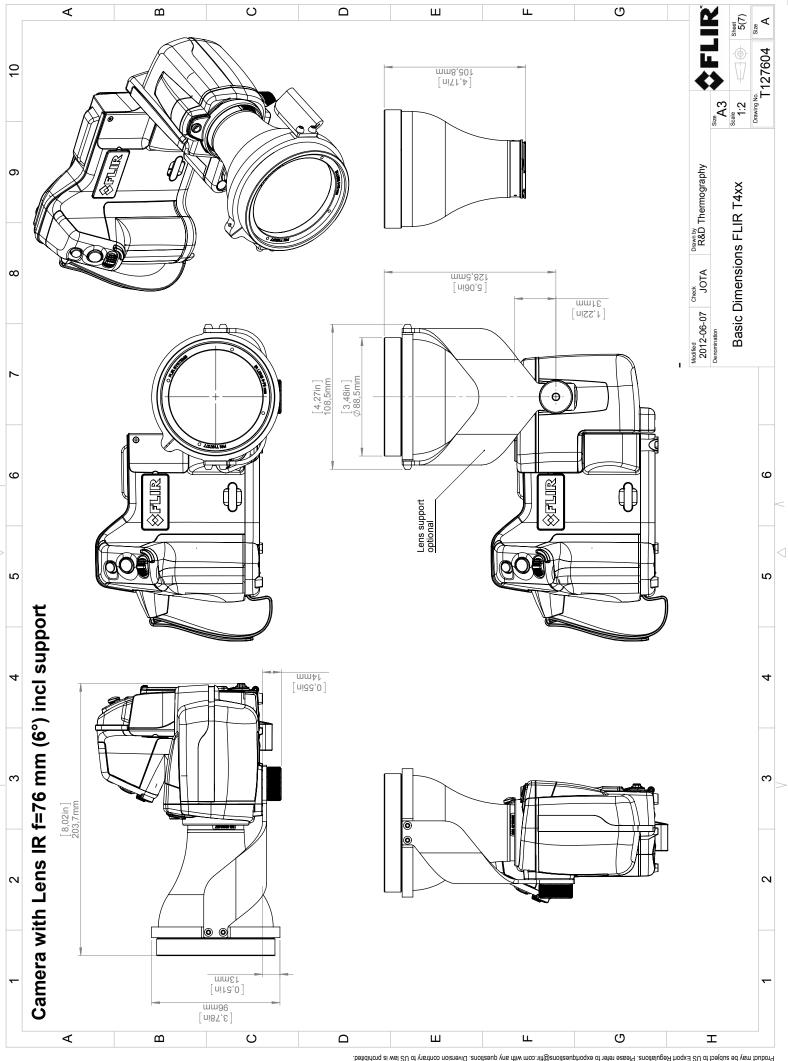
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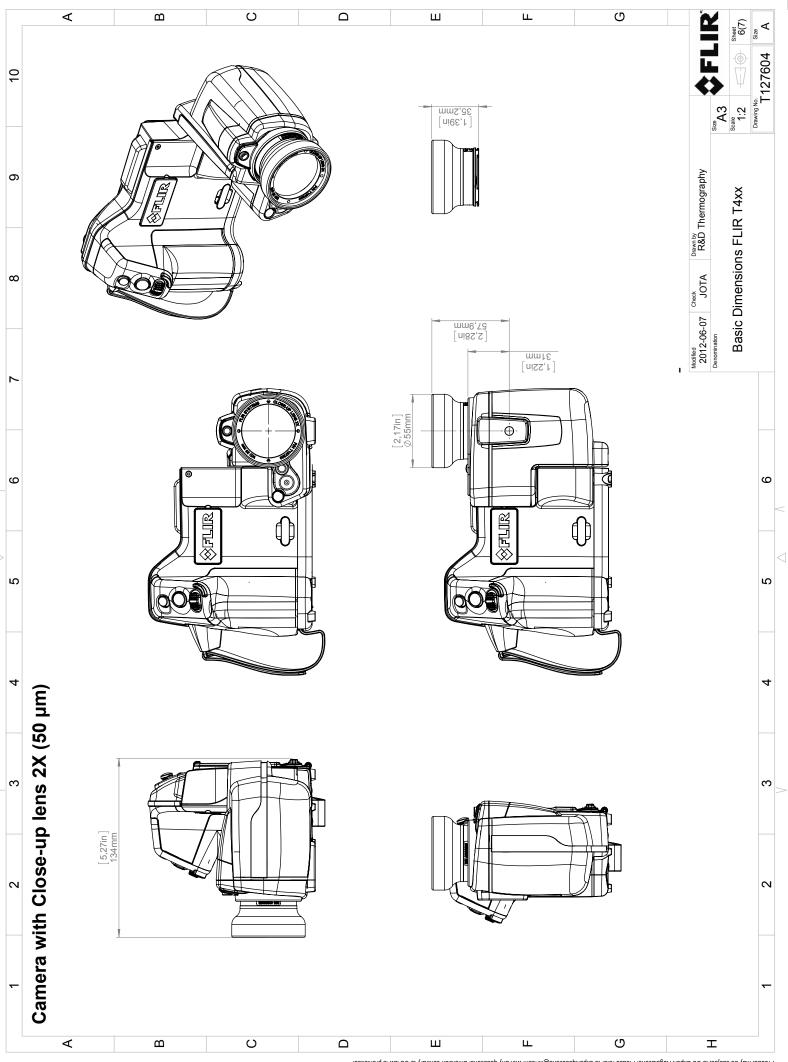
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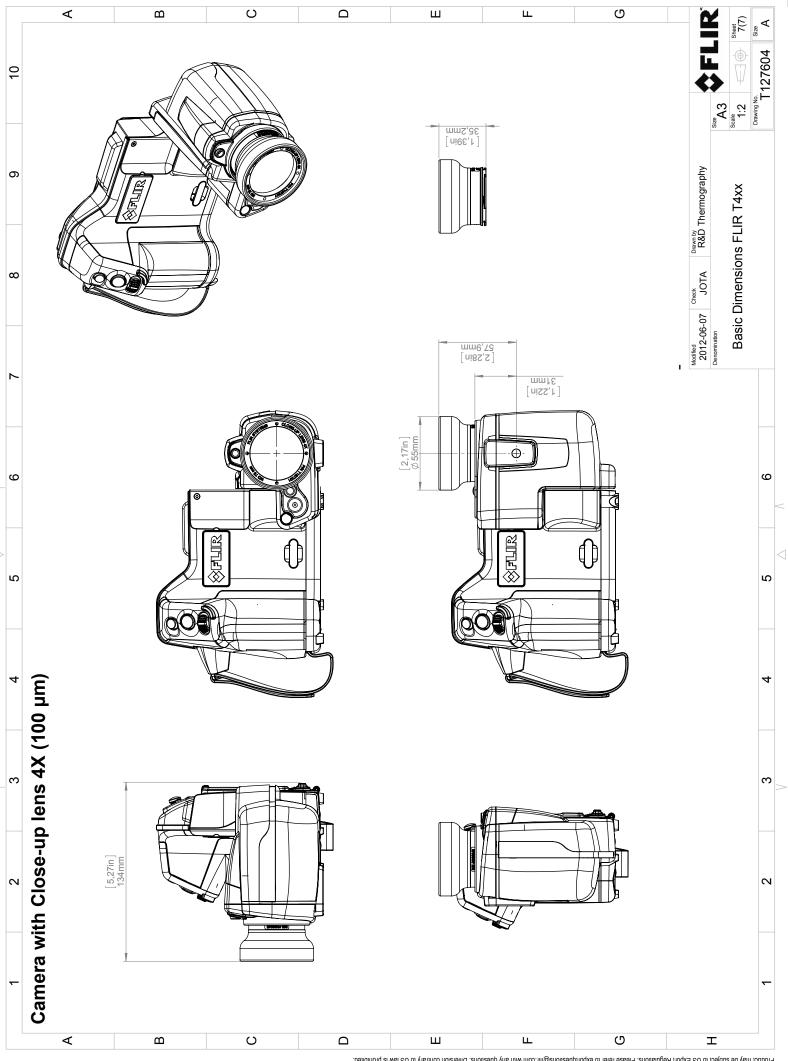
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