

P/N: 62104-2801

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General description

The FLIR T460 is a camera that offers good performance at an affordable price. Excellent ergonomics and a walk-up-and-use interface make the FLIR T460 a truly user-friendly camera for the beginner or advanced user.

Benefits:

- Excellent ergonomics: The FLIR T460 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 T460 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 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 T460 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	<30 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	2x, 4x and 8x

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



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Image presentation		
Auto orientation 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 20°C to +120°C (-4°F to +248°F) - 0°C to +650°C (+432°F to +1202°F) - 126°C to +150°C (-4432°F to +2202°F) - 126°C to +150°C (-432°F to +2202°F) - 126°C to +150°C (-432°F to +22732°F) Accuracy ±1°C (±1.8°F) or ±1% of reading for limited temperature range, ±2°C (±3.6°F) or 2°S, whichever is greater, at 25°C (7°F) nominal. Measurement analysis Spotmeter 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 Peference temperature Measurement correction Wariable from 0.01 to 1.0 or selected from materials list Measurement corrections Emissivity, reflected temperature, relative hundity, atmospheric temperature, relative hundity, atmospheric temperature, relative hundity, atmospheric temperature, object distance, external IR window compensation Colors (palettes) Fersies (Set-up Commands) Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information	Image presentation	
Image presentation modes	Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Thermal MSX Thermal image with enhanced detail presentation Picture in Picture Resizable and movable IR area on visual image Measurement Object temperature range	Auto orientation	Automatic landscape or portrait
Thermal MSX Thermal image with enhanced detail presentation Picture in Picture Resizable and movable IR area on visual image Measurement Object temperature range - 20°C to +120°C (-4°F to +248°F) - 0°C to +650°C (+32°F to +1202°F) - 125°°C to +1500°C (+482°F to +2732°F) - 125°°C to +1500°C (+482°F to +2732°F) - 12°C (±1.8°F) or 15% 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 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 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, extemperature, object distance, extemperature, selected measurement function Colors (palettes) Finance, extemperature (apperature, appearance) Color Alarm (isotherm) Above/below/interval Measurement function alarm Audible/visual alarms (above/below) on any selected measurement function Screening Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information	Image adjustment	Auto or manual
Resizable and movable IR area on visual image	Image presentation modes	
Measurement Object temperature range - 20°C to +120°C (-4°F to +248°F) - 0°C to +650°C (+32°F to +1202°F) - +250°C to +1500°C (+482°F to +2732°F) - +250°C to +1500°C (+482°F to +248°F) - +250°C to +1500°C (+482°F to +2732°F) - +250°C to +1500°C (+482°F to +2102°F) - +250°C to +1500°C (+482°F to +2732°F) - +250°C to +1500°C (+482°F to +2102°F) - +250°C to +1500°C (+480°F) - +250°C to +1500°C (+480°F	Thermal MSX	Thermal image with enhanced detail presentation
Object temperature range - 20°C to +120°C (-4°F to +248°F) - 0°C to +650°C (+32°F to +1202°F) - +250°C to +1500°C (+432°F to +1202°F) - +250°C to +1500°C (+432°F to +2732°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 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 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) Alarm Color Alarm (isotherm) Above/below/interval Measurement function alarm Audible/visual alarms (above/below) on any selected measurement function Screening Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information	Picture in Picture	Resizable and movable IR area on visual image
Object temperature range - 20°C to +120°C (-4°F to +248°F) - 0°C to +650°C (+32°F to +1202°F) - +250°C to +1500°C (+432°F to +1202°F) - +250°C to +1500°C (+432°F to +2732°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 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 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) Alarm Color Alarm (isotherm) Above/below/interval Measurement function alarm Audible/visual alarms (above/below) on any selected measurement function Screening Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information	Measurement	-
Accuracy ### 120°C to +1850°C (+32°F to +1202°F) ### 250°C to +150°C (+482°F to +2732°F) ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (*77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (*3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal. ### 250°C (±3.6°F) or 2%, whichever is greater, at 25°C (*3.6°F) or 2%, which except is 25°C (*3.6°F) or 2%, or 2		0000 +- 110000 (105 +- 101005)
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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) 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	Reference temperature	Manually set using difference temperature
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) 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	Emissivity correction	
Alarm Color Alarm (isotherm) Measurement function alarm 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	Measurement corrections	humidity, atmospheric temperature, object
Color Alarm (isotherm) 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	Colors (palettes)	
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	Alarm	
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	Color Alarm (isotherm)	Above/below/interval
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	Measurement function alarm	
Set-up commands Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information	Screening	Difference temperature alarm, audible
button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units, Camera information Service functions	Set-up	
T	Set-up commands	button, Reset options, Set up camera, Wi-Fi, Compass, Bluetooth, Language, Time & units,
Camera software update Use PC software FLIR Tools	Service functions	
	Camera software update	Use PC software FLIR Tools



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Storage of images	
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
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	
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	
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
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



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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	 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 B (Emission) ICES-003
Radio spectrum	ETSI EN 300 328FCC Part 15.247RSS-210
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	7332558008706
UPC-12	845188009229
Country of origin	Sweden

Supplies & accessories:

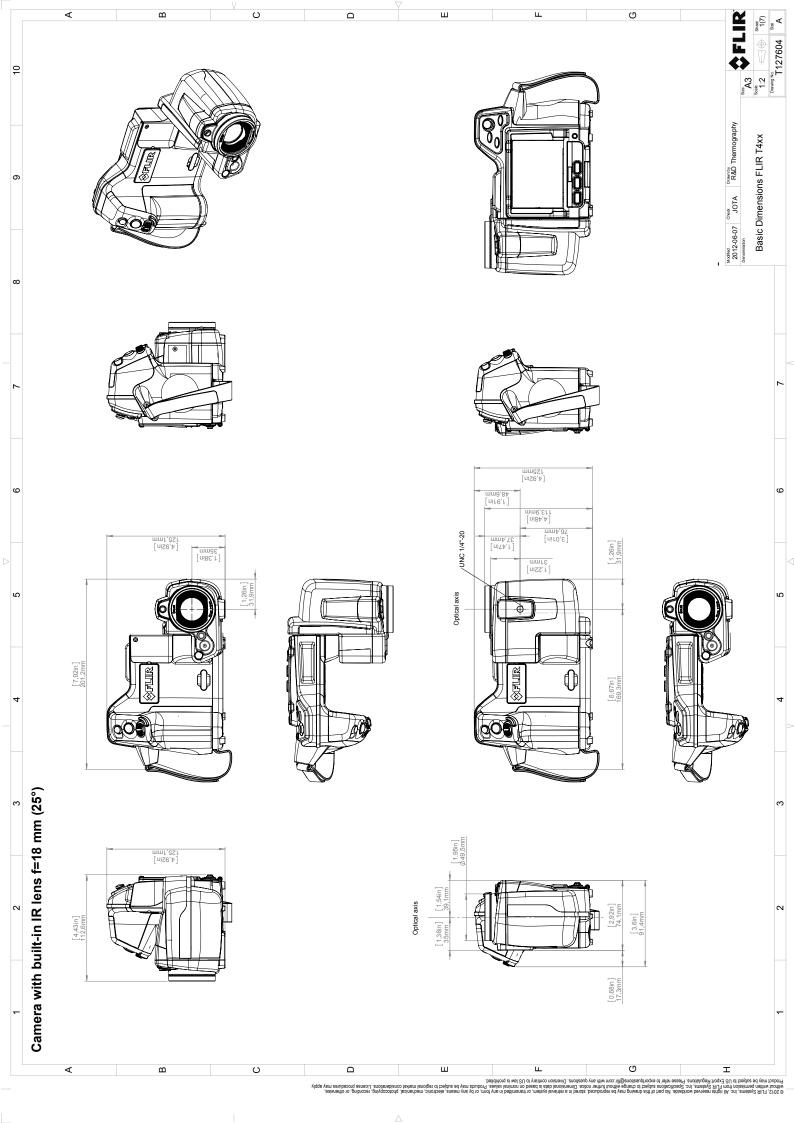
- 1196961; IR lens, f = 30 mm, 15° incl. case
- 1196960; IR lens, f = 10 mm, 45° incl. case
- T197215; Close-up 4× (100 μm) incl. case

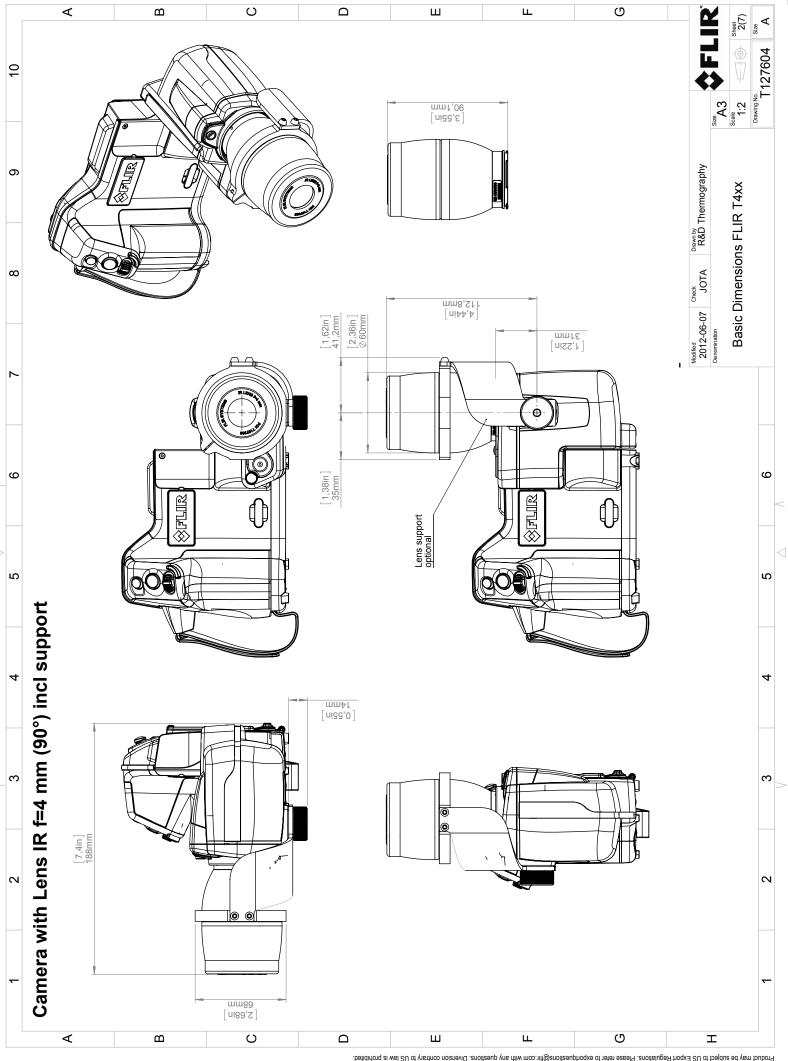


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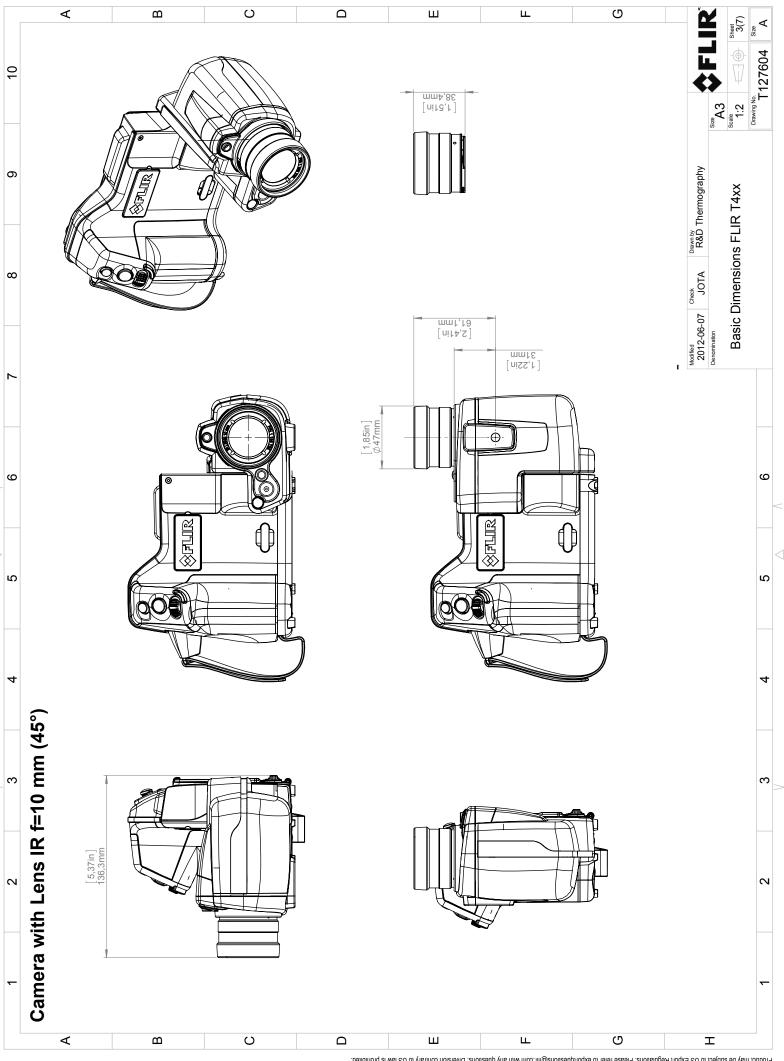
- T197214; Close-up 2× (50 μm) incl. case
- T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T197000; High temp. option +1200°C/+2192°F for FLIR T/B2xx to T/B4xx and A3xx, A3xxf, A3xxpt, A3xxsc series
- 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





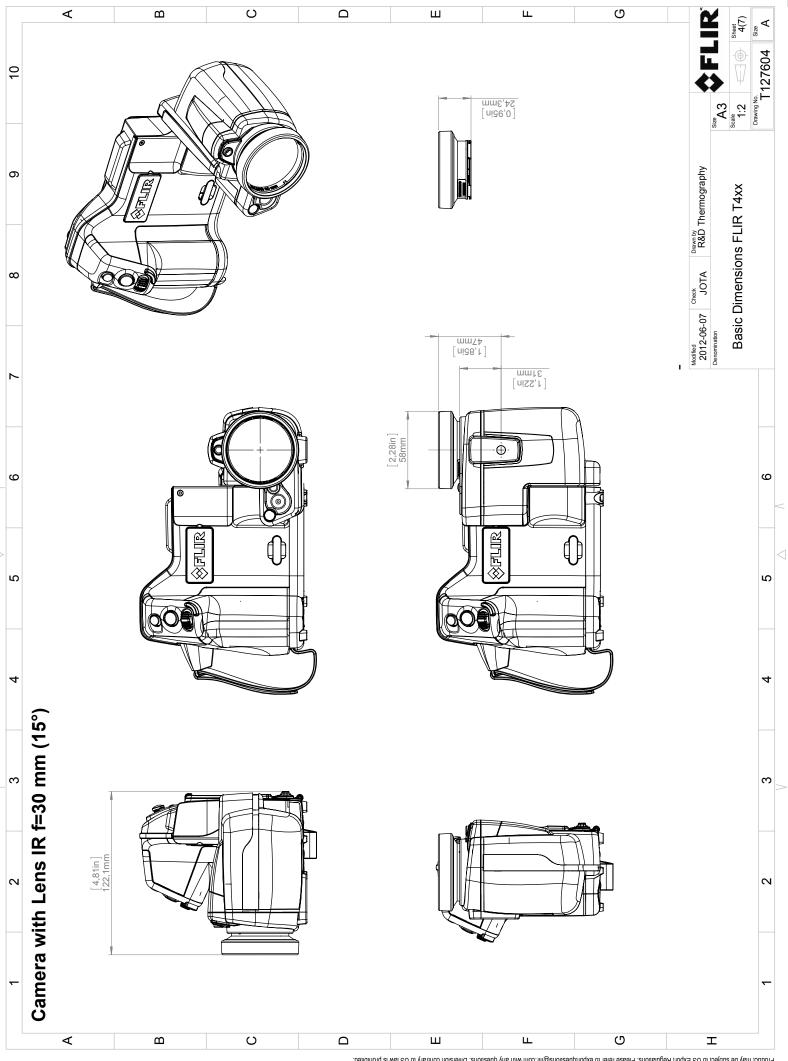
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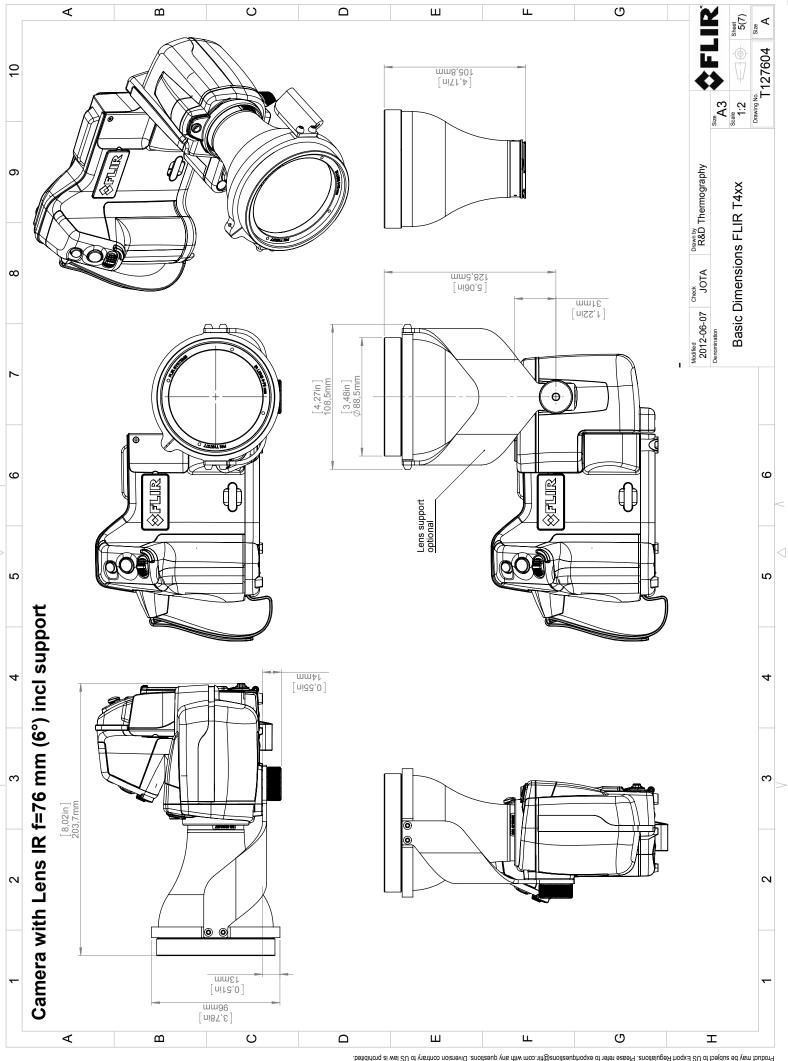
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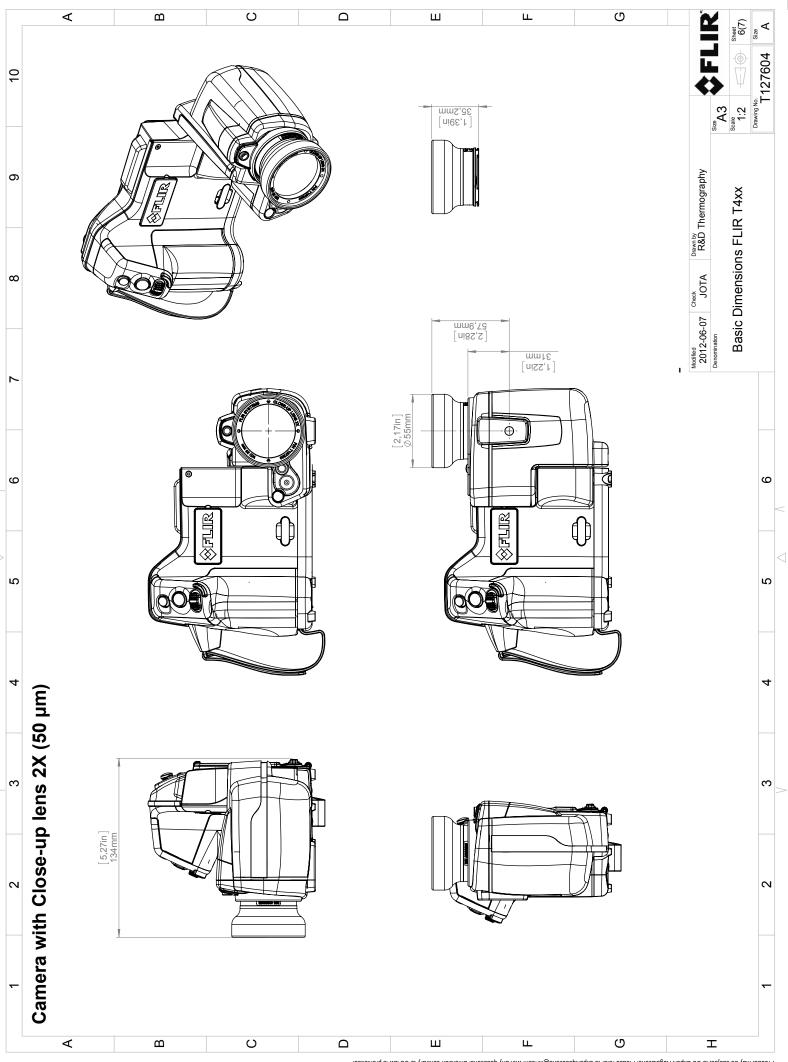
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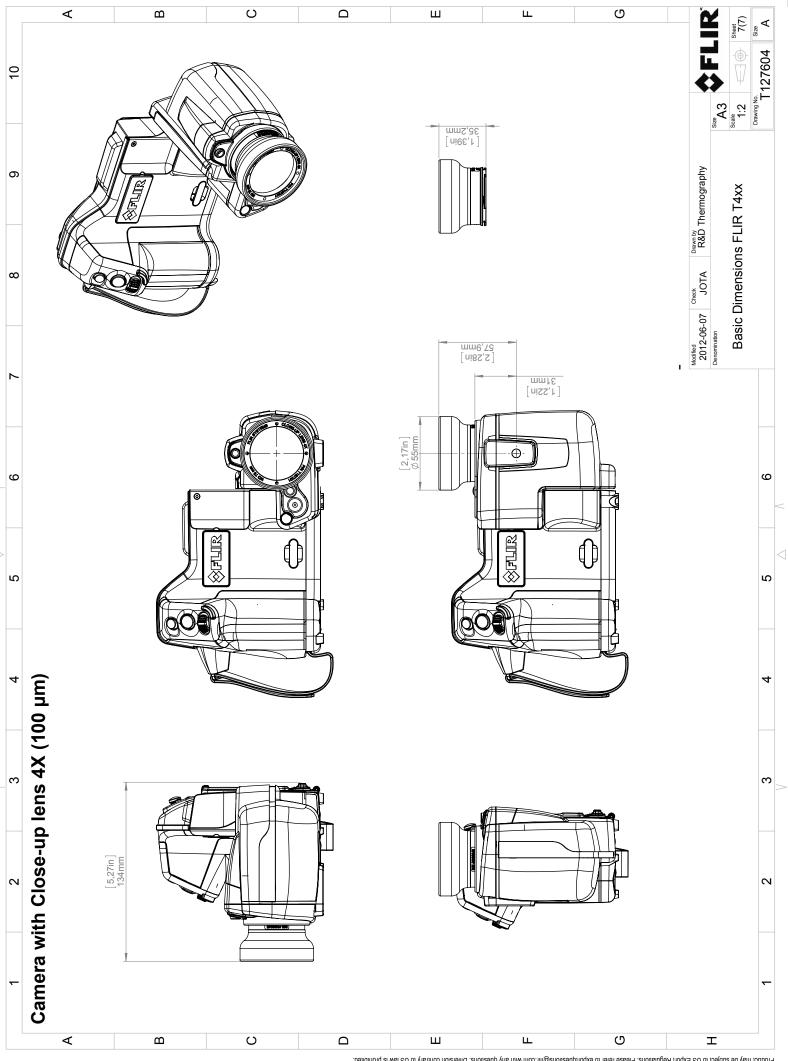
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