

## P/N: 79302-0101

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### Document identity

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### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

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<b>Imaging and optical data</b>	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) <sup>1</sup>	Yes
NETD	<40 mK @ 30°C (86°F)
Field of view	24° × 18°
Minimum focus distance	<ul style="list-style-type: none"> <li>0.15 m (0.49 ft)</li> <li>Macro mode 103 μm as option</li> </ul>
Minimum focus distance with MSX	0.5 m (1.64 ft)
Focal length	17 mm (0.67 in)
Spatial resolution (IFOV)	1.31 mrad/pixel
Available extra lenses	<ul style="list-style-type: none"> <li>14° (AutoCal)</li> <li>42° (AutoCal)</li> <li>Dual FOV 24°/14° (service calibration required)</li> <li>6° (service calibration required)</li> <li>80° (service calibration required)</li> <li>Macro lens 2.0x (service calibration required)</li> </ul>
Lens identification	Automatic
f number	1.3
Image frequency	30 Hz
Focus	<ul style="list-style-type: none"> <li>Continuous LDM</li> <li>One-shot LDM</li> <li>One-shot contrast</li> <li>Manual</li> </ul>
Field of view match	Yes
Digital zoom	1–4x continuous
<b>Detector data</b>	
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 μm
Detector pitch	17 μm
<b>Image presentation</b>	
Resolution	640 × 480 pixels (VGA)
Surface brightness (cd/m <sup>2</sup> )	400
Screen size	4 in

1. Not supported when using macro.

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<b>Image presentation</b>	
Viewing angle	80°
Color depth (bits)	24
Aspect ratio	4:3
Auto-rotation	Yes
Touchscreen	Optically bonded PCAP
Display technology	IPS
Cover glass material	Dragontrail®
Programmable buttons	2
Viewfinder	No
Image adjustment	<ul style="list-style-type: none"> <li>• Automatic</li> <li>• Automatic maximum</li> <li>• Automatic minimum</li> <li>• Manual</li> </ul>
<b>Image presentation modes</b>	
Infrared image	Yes
Visual image	Yes
MSX	Yes
Picture in picture	Resizable and movable
Gallery	Yes
<b>Measurement</b>	
Camera temperature range	<ul style="list-style-type: none"> <li>• -20 to 120°C (-4 to 248°F)</li> <li>• 0 to 650°C (32 to 1202°F)</li> <li>• Optional 300 to 1200°C (572 to 2192°F)</li> </ul>
Object temperature range and accuracy (for ambient temp. 15 to 35°C (59 to 95°F))	<ul style="list-style-type: none"> <li>• Range -20 to 120°C (-4 to 248°F): <ul style="list-style-type: none"> <li>◦ -20 to 100°C (-4 to 212°F): ±2°C (±3.6°F)</li> <li>◦ 100 to 120°C (212 to 248°F): ±2%</li> </ul> </li> <li>• Range 0 to 650°C (32 to 1202°F): <ul style="list-style-type: none"> <li>◦ 0 to 100°C (32 to 212°F): ±2°C (±3.6°F)</li> <li>◦ 100 to 650°C (212 to 1202°F): ±2%</li> </ul> </li> <li>• Optional Range 300 to 1200°C (572 to 2192°F): ±2%</li> </ul>
<b>Inspection mode</b>	
FLIR Inspection route	Enabled in the camera
<b>Measurement analysis</b>	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Measurement presets	<ul style="list-style-type: none"> <li>• No measurements</li> <li>• Center spot</li> <li>• Hot spot</li> <li>• Cold spot</li> <li>• User preset 1</li> <li>• User preset 2</li> </ul>
Difference temperature	Yes
Reference temperature	Yes

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<b>Measurement analysis</b>	
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
<b>Alarm</b>	
Color alarm (isotherm)	<ul style="list-style-type: none"> <li>• Above</li> <li>• Below</li> <li>• Interval</li> <li>• Condensation (moisture/humidity/dewpoint)</li> <li>• Insulation</li> </ul>
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
<b>Set-up</b>	
Color palettes	<ul style="list-style-type: none"> <li>• Arctic</li> <li>• White hot</li> <li>• Black hot</li> <li>• Iron</li> <li>• Lava</li> <li>• Rainbow</li> <li>• Rainbow HC</li> </ul>
Setup commands	Local adaptation of units, language, date, and time formats
Languages	21
<b>Service functions</b>	
Camera software update	Using USB cable or SD card
<b>Storage of images</b>	
Storage media	<ul style="list-style-type: none"> <li>• Removable memory: SD card</li> <li>• FLIR Ignite Cloud services (with Wi-Fi)</li> </ul>
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	Using USB cable or Wi-Fi
Image file format	Standard JPEG, measurement data included. Infrared-only mode
<b>Image annotations</b>	
Voice	60 seconds with built-in microphone and speaker (and via Bluetooth) on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Visual image annotation	Yes
Image sketch	Yes: on infrared only
Sketch	From touchscreen
METERLINK	Wireless connection (Bluetooth) to: FLIR meters with METERLINK
Compass	Yes
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS



# FLIR T530 24°

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<b>Video recording in camera</b>	
Radiometric infrared-video recording	RTRR (.csq)
Non-radiometric infrared-video recording	H.264 to memory card
Visual video recording	H.264 to memory card
<b>Video streaming</b>	
Radiometric infrared-video streaming (compressed)	Over UVC
Non-radiometric video streaming (compressed: IR, MSX, visual, Picture in Picture)	<ul style="list-style-type: none"> <li>• H.264 (AVC) over RTSP (Wi-Fi)</li> <li>• MPEG4 over RTSP (Wi-Fi)</li> <li>• MJPEG over UVC and RTSP (Wi-Fi)</li> </ul>
Visual video streaming	Yes
<b>Digital camera</b>	
Resolution	5 MP with LED light
Focus	Fixed
Field of view	53° × 41°
Video lamp	Built-in LED light
<b>Laser pointer</b>	
Laser alignment	Position is automatically displayed on the infrared image
Laser distance meter	Activated by dedicated button
Laser	Class 2, 0.05–40 m (0.16–131 ft) ±1% of measured distance
<b>Data communication interfaces</b>	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
METERLiNK/Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
Audio	Microphone and speaker for voice annotation of images
USB	USB Type-C: data transfer/video/power
USB standard	USB 2.0 High Speed
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C
Cloud services	FLIR Ignite Cloud services
<b>Radio</b>	
Operating frequency	Bluetooth + EDR/LE: 2402–2480 MHz WLAN 2.4 GHz: 2412–2462 MHz WLAN 5 GHz: 5150–5350 MHz (DFS: only slave mode)  Note that frequency band 5150–5350 MHz is for indoor use only, see national regulations.
RF output (EIRP)	Bluetooth + EDR/LE: < 10 dBm WLAN: < 17 dBm
Antenna	Integrated PIFA antenna (gain: maximum 1.4 dBi)

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<b>Power system</b>	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (77°F) with typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or two-bay charger
Charging time (using two-bay charger)	3.5 h to 90% capacity, on-screen indicator
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 standard plug, optional)
Power management	Automatic shut-down and sleep mode
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: <a href="https://support.flir.com/resources/msds">https://support.flir.com/resources/msds</a>
<b>Environmental data</b>	
Operating temperature range	–15 to 50°C (5–122°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	<ul style="list-style-type: none"> <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, class B (emission)</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>• ETSI EN 300 328</li> <li>• ETSI EN 301 893</li> <li>• FCC 47 CFR part 15 C</li> <li>• FCC 47 CFR part 15 E</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	<p>Camera:</p> <ul style="list-style-type: none"> <li>• IEC/EN 60950-1, IEC/EN 62368-1</li> </ul> <p>Power supply:</p> <ul style="list-style-type: none"> <li>• IEC/EN 62368-1</li> <li>• CSA/UL/KC/SAA/PSE 60950-1</li> </ul>
Declaration of conformity	See: <a href="https://support.flir.com/resources/DoC">https://support.flir.com/resources/DoC</a>
<b>Physical data</b>	
Weight (including battery)	1.3 kg (2.9 lb)
Size (L × W × H)	<ul style="list-style-type: none"> <li>• Lens vertical: 140 × 201.3 × 84.1 mm (5.5 × 7.9 × 3.3 in)</li> <li>• Lens horizontal: 140 × 201.3 × 167.3 mm (5.5 × 7.9 × 6.6 in)</li> </ul>
Battery weight	195 g (6.89 oz)
Battery size (L × W × H)	59 × 66 × 94 mm (2.3 × 2.6 × 3.7 in)
Tripod mounting	UNC ¼"-20
Housing material	PCABS with TPE, magnesium
Color	Black

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<b>Warranty and service</b>	
Warranty	<a href="http://www.flir.com/warranty/">http://www.flir.com/warranty/</a>
<b>Shipping information</b>	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> <li>• Accessory box I:               <ul style="list-style-type: none"> <li>◦ Power supply for battery charger</li> <li>◦ Power supply, 15 W/3 A</li> <li>◦ Printed documentation</li> <li>◦ SD card (8 GB)</li> <li>◦ USB 2.0 A to USB Type-C cable</li> <li>◦ USB Type-C to HDMI and PD adapter</li> <li>◦ USB Type-C to USB Type-C cable (USB 2.0 standard)</li> </ul> </li> <li>• Accessory box II:               <ul style="list-style-type: none"> <li>◦ Lens cap strap</li> <li>◦ Lens cleaning cloth</li> <li>◦ Neck strap</li> </ul> </li> <li>• Battery (2 ea)</li> <li>• Battery charger</li> <li>• Hard transport case</li> <li>• Infrared camera with lens</li> <li>• Lens cap, front</li> <li>• Lens cap, front and rear (only for extra lenses)</li> <li>• License card: FLIR Thermal Studio Pro (3 month subscription) + FLIR Route Creator Plugin for Thermal Studio Pro (3 month subscription)</li> </ul>
Packaging, weight	5.8 kg (12.8 lb)
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in)
EAN-13	7332558012925
UPC-12	845188014612
Country of origin	Sweden

### Supplies and accessories:

- T300238; Macro lens 2.0x with case
- T300095; IR lens, f=70 mm (6°) with case
- T300587; IR lens Dual FOV, f=17/29 mm (24°/14°) with case
- T131171ACC; Remote operation button
- T199300ACC; Battery
- T199347ACC; Hard transport case for FLIR T8xx, T5xx, and GF7x series
- T199601; Hand strap and neck strap
- T199610; Battery charger
- T199616; Option, High temperature, +300 to +1200°C
- T300030; Option, No radio
- T911997; Tripod
- T911998; HDMI 2-port video splitter
- T300369; Mounting kit (FLIR T5xx, T8xx, Exx)
- T300768; Port adapter
- T300493ACC; Industrial protective lens window
- T850105; FLIR Inspection Route - Camera Option
- T850111; Option, Dual streaming
- T199609; Option, Macro mode 50/71/101 μm for 24°
- T130337ACC; Calibration target
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911706ACC; Car adapter 12 V



## FLIR T530 24°

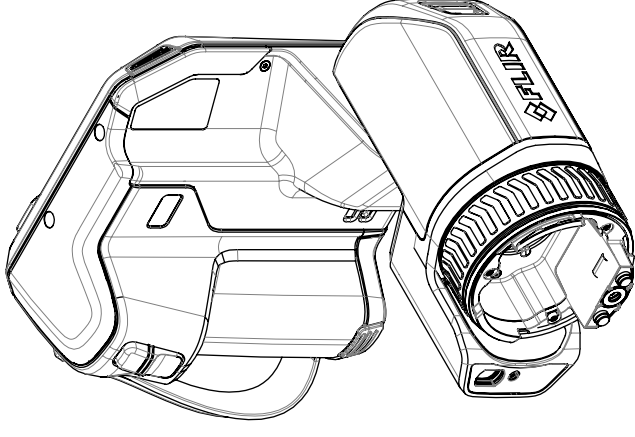
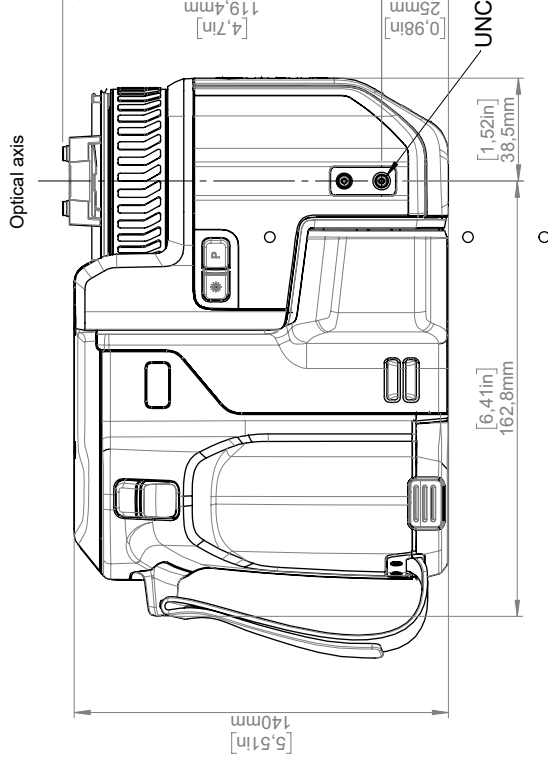
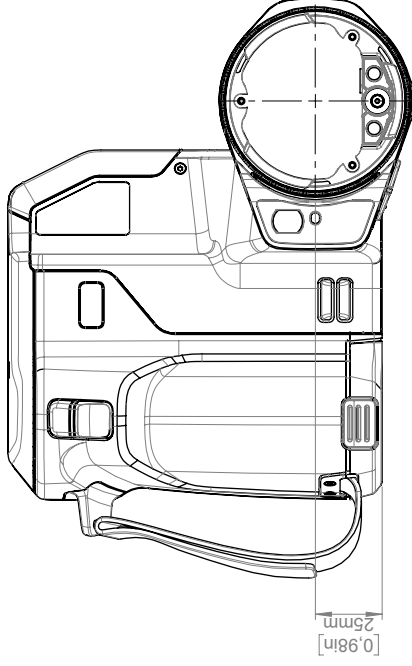
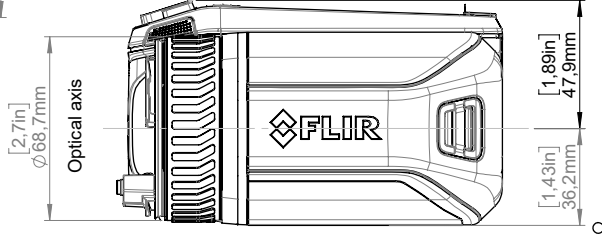
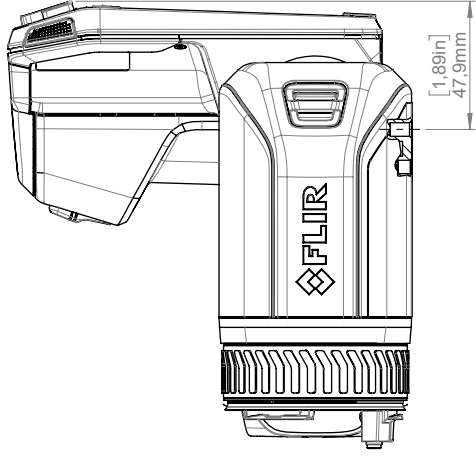
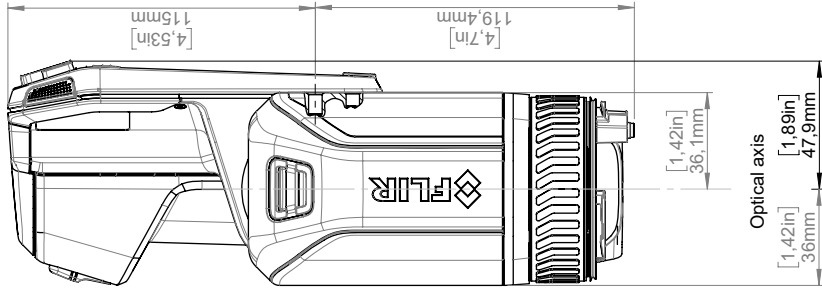
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- T911845ACC; USB Type-C to HDMI and PD adapter
- T911846ACC; USB 2.0 A to USB Type-C with Power supply
- T911940ACC; USB 2.0 A to USB Type-C cable, 1.0 m
- T300437ACC; Lens case
- T199588; IR lens, f=29 mm (14°) with case
- T199589; IR lens, f=17 mm (24°) with case
- T199590; IR lens, f=10 mm (42°) with case
- T300805; IR lens, f=5 mm (80°) with case
- T198495; Pouch
- T197771ACC; Bluetooth Headset
- T300244; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, 1 Year Subscription
- T300439; FLIR Route Creator Plugin for FLIR Thermal Studio Pro, Perpetual license
- 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
- 4232535; FLIR Research Studio, Professional Edition - 1 Year Subscription (online activation)
- 4232556; FLIR Research Studio, Professional Edition - Perpetual License (online activation)
- 4232590; FLIR Research Studio, Professional Edition - Perpetual License (USB dongle)
- 4220499; FLIR Research Studio, Standard Edition - 1 Year Subscription (online activation)
- 4220500; FLIR Research Studio, Standard Edition - Perpetual License (online activation)
- 4220646; FLIR Research Studio, Standard Edition - Perpetual License (USB dongle)
- 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)
- 4232591; FLIR ResearchIR to Research Studio, Professional Edition - 1 Year License Upgrade

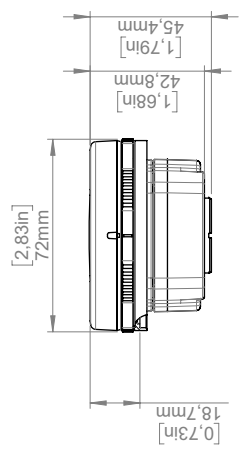
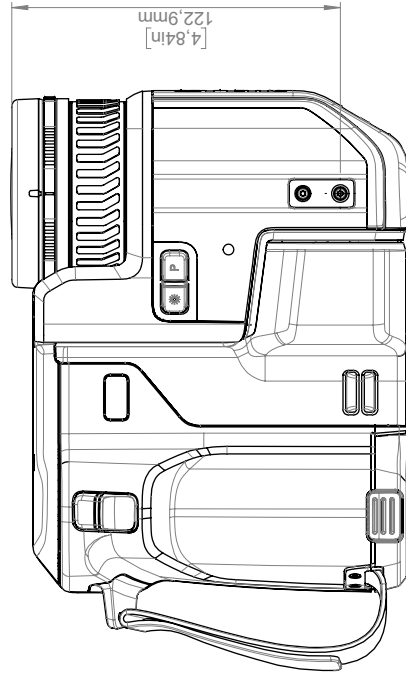
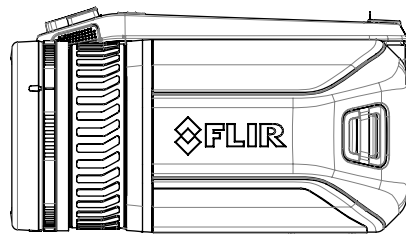
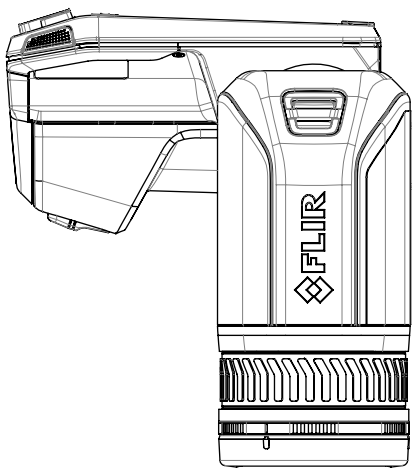
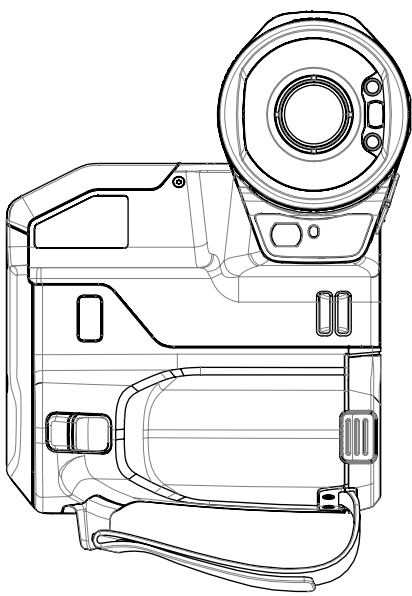
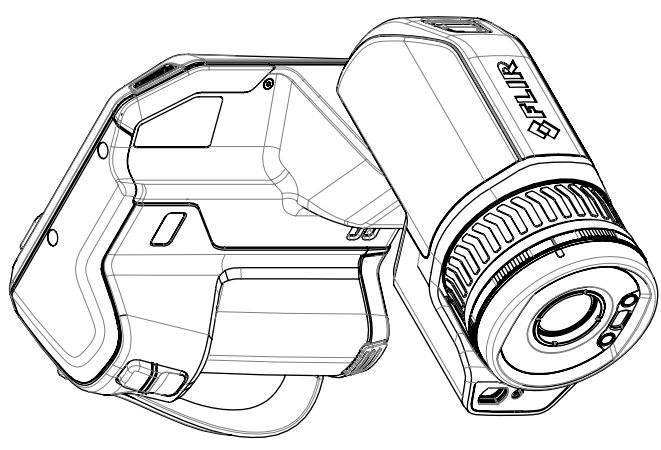
# Camera housing



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			Sheet <b>1(6)</b>
			Drawing No. <b>T129991</b>
			Rev <b>D</b>



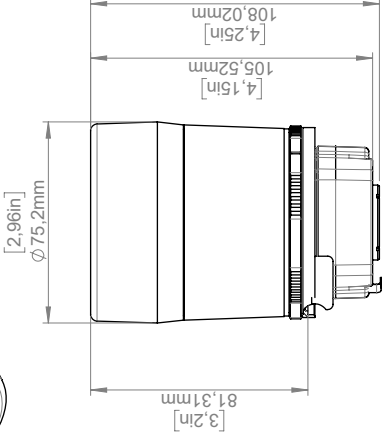
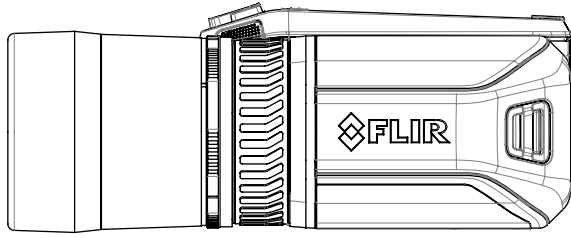
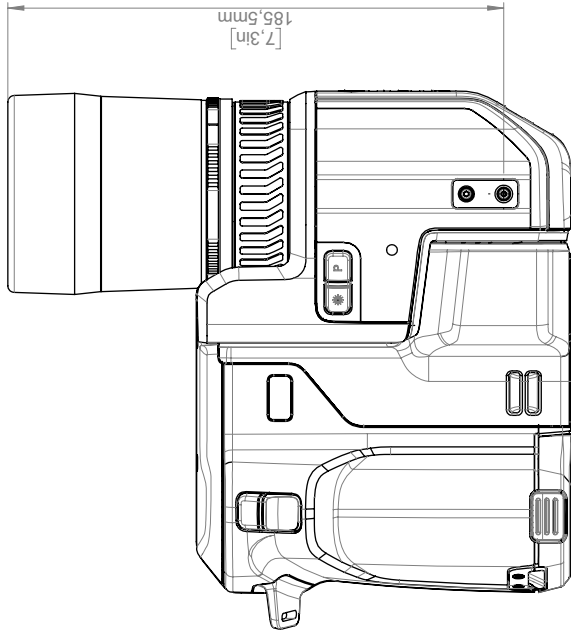
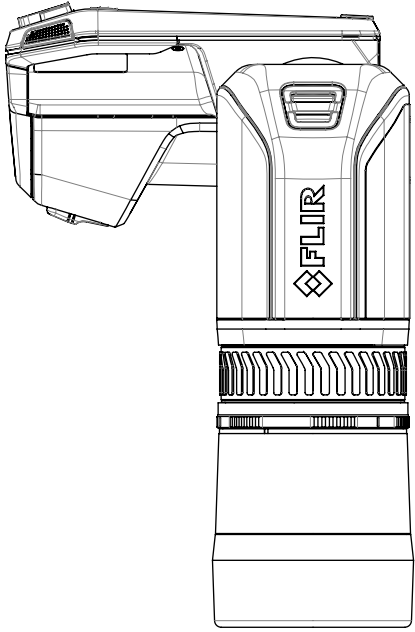
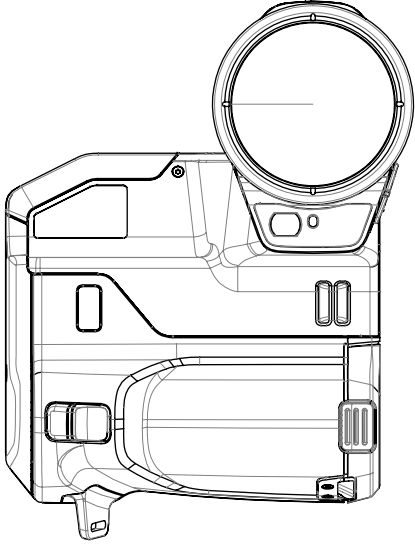
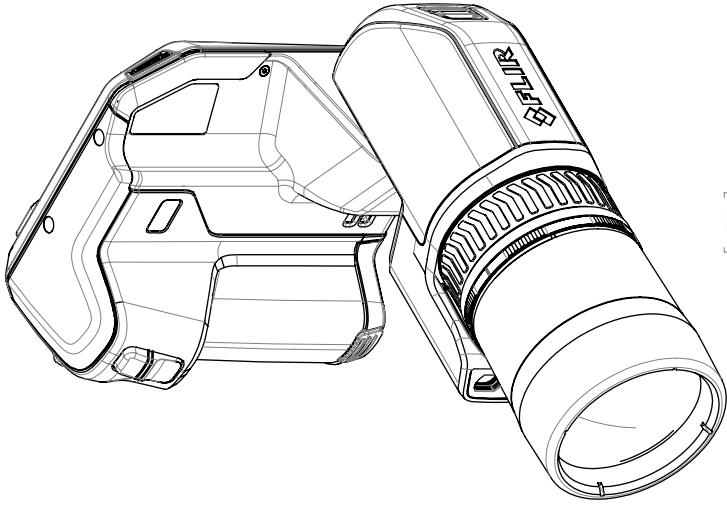
- Camera with Lens IR f=10mm (42°)
- Camera with Lens IR f=17mm (24°)
- Camera with Lens IR f=29mm (14°)
- Camera with Lens IR Close-up 2x



For additional dimensions see page 1

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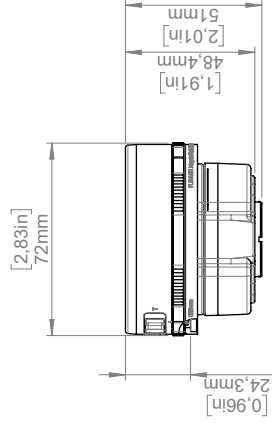
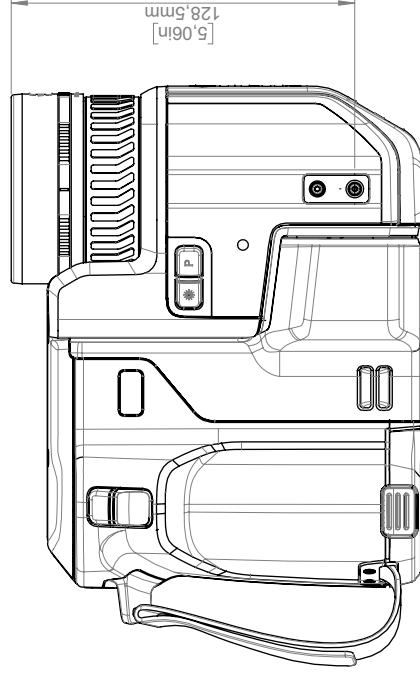
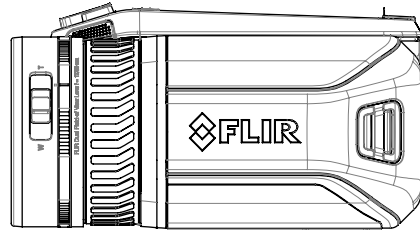
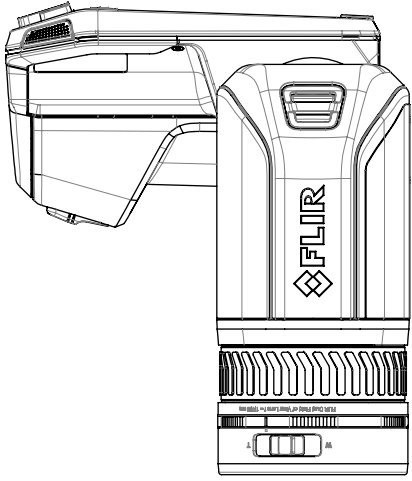
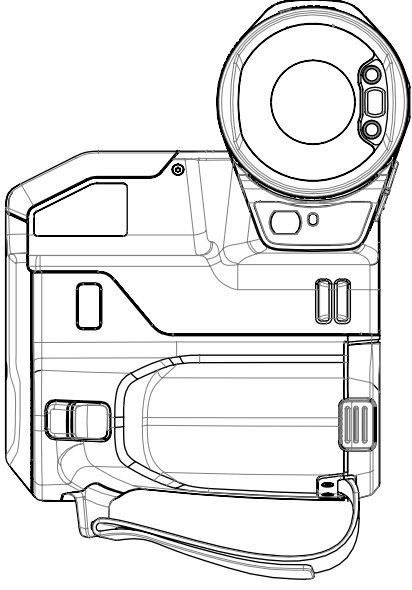
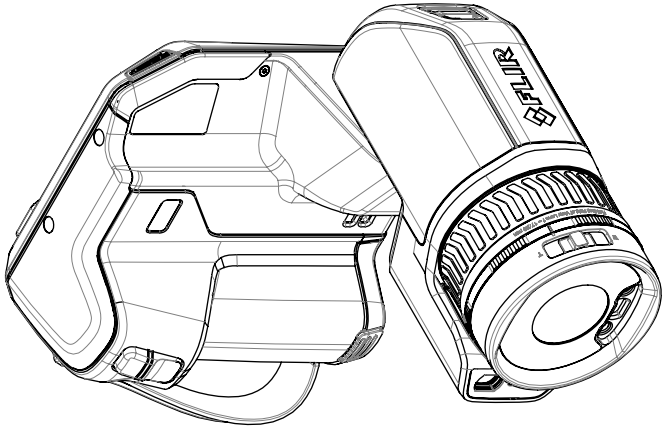
# Camera with Lens IR f=70mm (6°)



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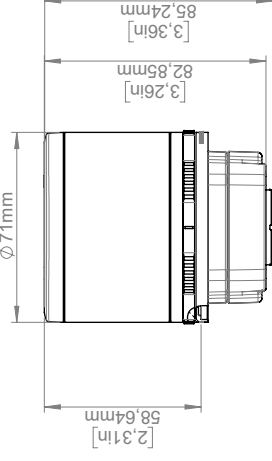
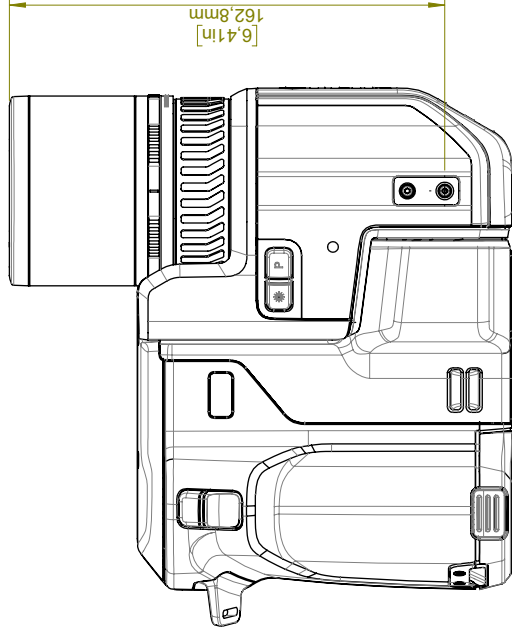
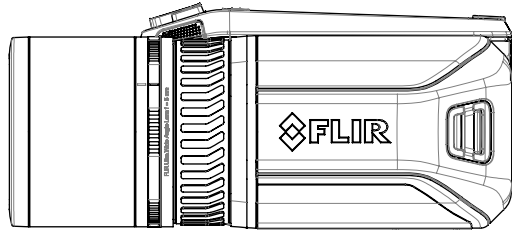
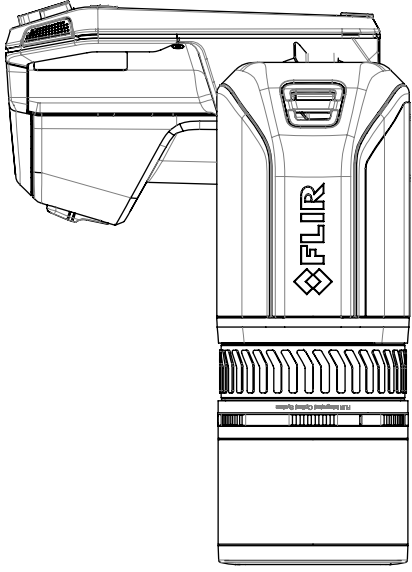
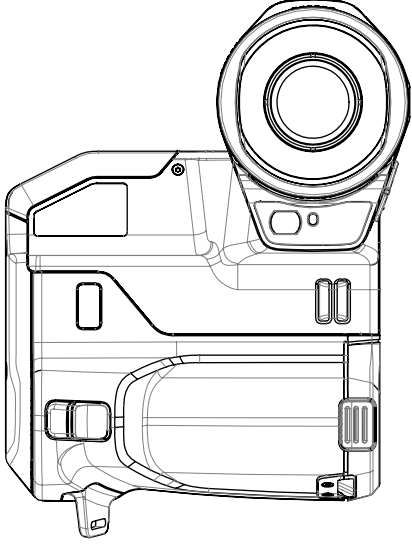
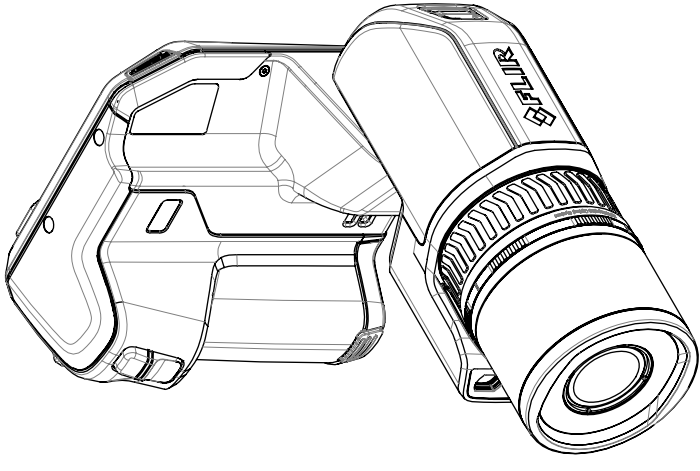
# Camera with Lens IR f=17/29mm (DFOV)



For additional dimensions see page 1

Modified by A. Agardson	Approved by AKZE	Modified 2023-09-29	<b>FLIR</b>
This document does not contain any export-controlled information.			Size A3
Denomination Basic dimensions FLIR T5xx			Sheet 4(6)
			Scale 1:5
			Drawing No T129991
			Rev D

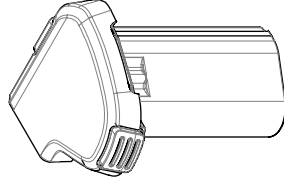
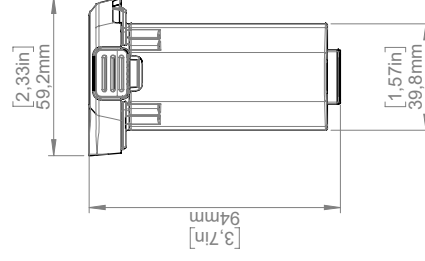
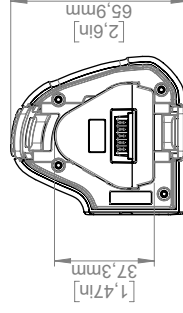
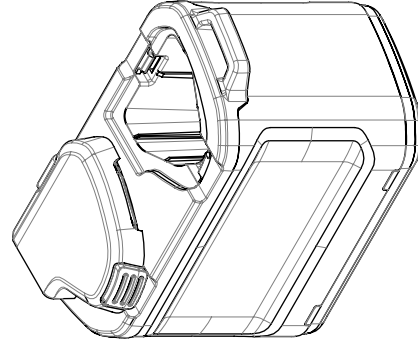
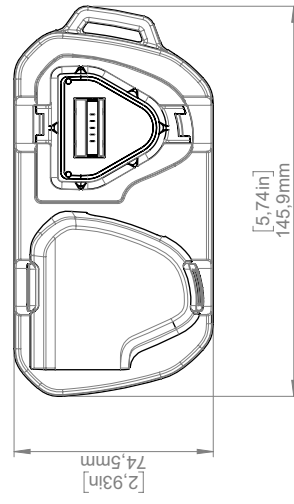
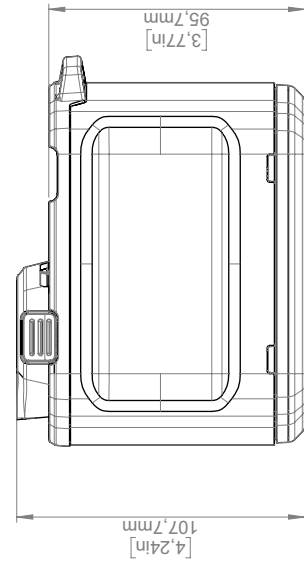
# Camera with Lens IR f=5mm (80°)



For additional dimensions see page 1

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Denomination Basic dimensions FLIR T5xx			Rev D
Size A3			Drawing No T129991
Scale 1:5			

# Battery Charger



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This document does not contain any export-controlled information.			Sheet <b>6(6)</b>
Denomination <b>Basic dimensions FLIR T5xx</b>			Rev <b>D</b>
Size <b>A3</b>	Scale <b>1:5</b>	Drawing No. <b>T129991</b>	