

## P/N: 79302-0101

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### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

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Imaging and optical data	
Infrared resolution	320 × 240 pixels
UltraMax (super-resolution) <sup>1</sup>	In FLIR Tools
NETD	<ul style="list-style-type: none"> <li>&lt;30 mK, 42° @ +30°C (+86°F)</li> <li>&lt;40 mK, 24° @ +30°C (+86°F)</li> <li>&lt;50 mK, 14° @ +30°C (+86°F)</li> </ul>
Field of view	<ul style="list-style-type: none"> <li>42° × 32°</li> <li>24° × 18°</li> <li>14° × 10°</li> </ul>
Minimum focus distance	<ul style="list-style-type: none"> <li>0.15 m (0.49 ft.), 42°</li> <li>0.15 m (0.49 ft.), 24°</li> <li>1.0 m (3.28 ft.), 14°</li> <li>Macro mode 103 µm as option to 24°</li> </ul>
Minimum focus distance with MSX	<ul style="list-style-type: none"> <li>0.65 m (2.13 ft.), 42°</li> <li>0.5 m (1.64 ft.), 24°</li> <li>1.0 m (3.28 ft.), 14°</li> </ul>
Focal length	<ul style="list-style-type: none"> <li>10 mm (0.39 in.), 42°</li> <li>17 mm (0.67 in.), 24°</li> <li>29 mm (1.41 in.), 14°</li> </ul>
Spatial resolution (IFOV)	<ul style="list-style-type: none"> <li>2.41 mrad/pixel, 42°</li> <li>1.31 mrad/pixel, 24°</li> <li>0.75 mrad/pixel, 14°</li> </ul>
Available extra lenses	<ul style="list-style-type: none"> <li>42°</li> <li>14°</li> </ul>
Lens identification	Automatic
f number	<ul style="list-style-type: none"> <li>1.1, 42°</li> <li>1.3, 24°</li> <li>1.5, 14°</li> </ul>

1. Not supported when using macro.

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<b>Imaging and optical data</b>	
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	1–4× 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.
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>	
Object temperature range	<ul style="list-style-type: none"> <li>• –20 to +120°C (–4 to +248°F)</li> <li>• 0–650°C (32–1202°F)</li> <li>• Optional: 300–1200°C (572–2192°F)</li> </ul>
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 15–35°C (59–95°F) and object temperature above 0°C (32°F)

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<b>Measurement analysis</b>	
Spotmeter	3 in live mode
Area	3 in live mode
Automatic hot/cold detection	Automatic maximum/minimum markers within area
Color alarm (Isotherm)	<ul style="list-style-type: none"> <li>• Above</li> <li>• Below</li> <li>• Interval</li> <li>• Condensation</li> <li>• Insulation</li> </ul>
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
Emissivity correction	Yes, variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Yes
External optics/windows correction	Yes
Screening	0.5°C (0.9°F) accuracy at 37°C (98.6°F) with reference
<b>Alarm</b>	
Moisture alarm	Yes
Insulation alarm	Yes
Measurement alarm	Audible/visual alarms above/below
<b>Set-up</b>	
Color palettes	<ul style="list-style-type: none"> <li>• Iron</li> <li>• Gray</li> <li>• Rainbow</li> <li>• Arctic</li> <li>• Lava</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	Use PC software FLIR Tools
<b>Storage of images</b>	
Storage media	Removable memory: SD card
Time lapse (Periodic image storage)	10 seconds to 24 hours (infrared)
Remote control operation	<ul style="list-style-type: none"> <li>• Using FLIR Tools (using USB cable)</li> <li>• FLIR Tools Mobile (over Wi-Fi)</li> </ul>
Image file format	Standard JPEG, measurement data included. Infrared-only mode

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<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	Yes, several readings
Area measurement information	Yes
GPS	Location data automatically added to every still image and first frame in video from built-in GPS
<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 or RTSP (Wi-Fi)
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 (1.6–130 ft.) ±1% of measured distance
<b>Data communication interfaces</b>	
Interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort
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

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<b>Data communication interfaces</b>	
Video out	DisplayPort
Video connector type	DisplayPort over USB Type-C
<b>Power system</b>	
Battery type	Rechargeable Li-ion battery
Battery voltage	3.6 V
Battery operating time	> 4 hours at 25°C (68°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
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
<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 Class B (emission)</li> </ul>
Radio spectrum	<ul style="list-style-type: none"> <li>ETSI EN 300 228</li> <li>FCC Part 15.249</li> <li>RSS-247</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Shock	25g (IEC 60068-2-27)
Vibration	2g (IEC 60068-2-6)
Safety	EN/UL/CSA/PSE 60950-1
<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
<b>Warranty and service</b>	
Warranty	<a href="http://www.flir.com/warranty/">http://www.flir.com/warranty/</a>

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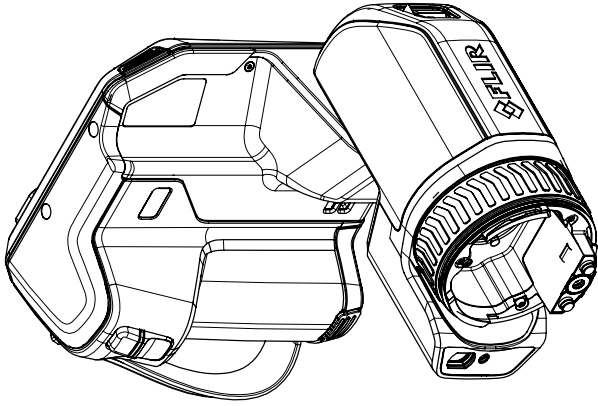
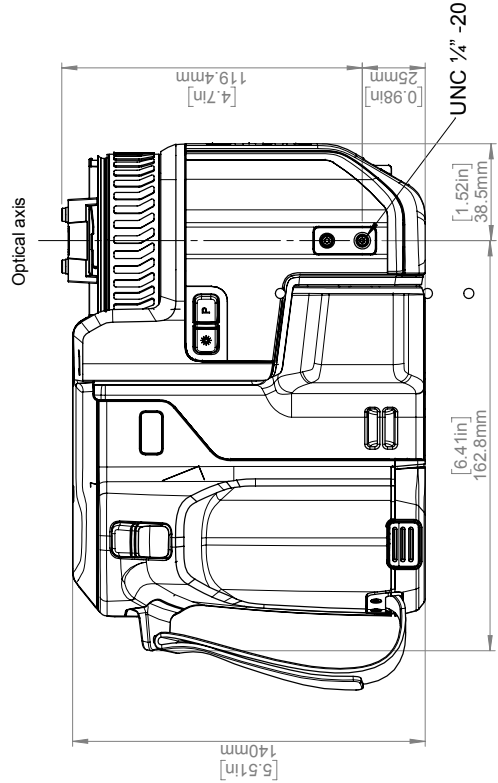
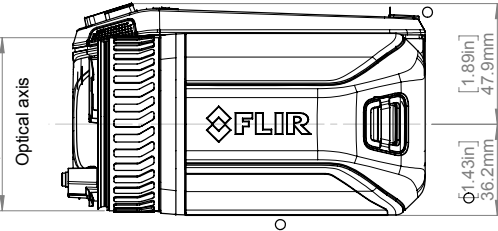
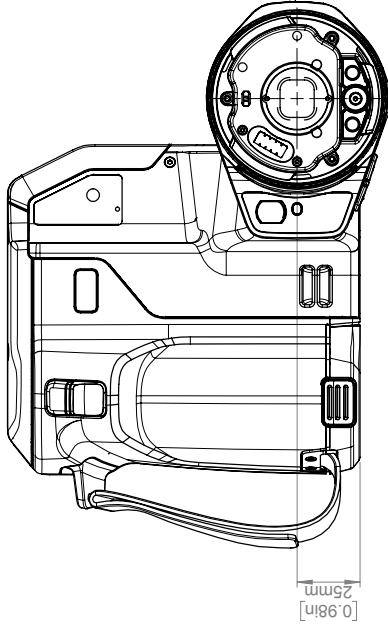
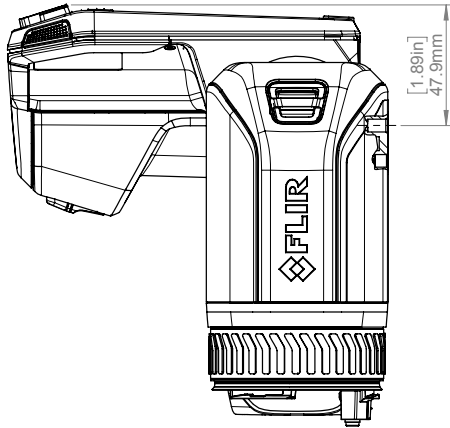
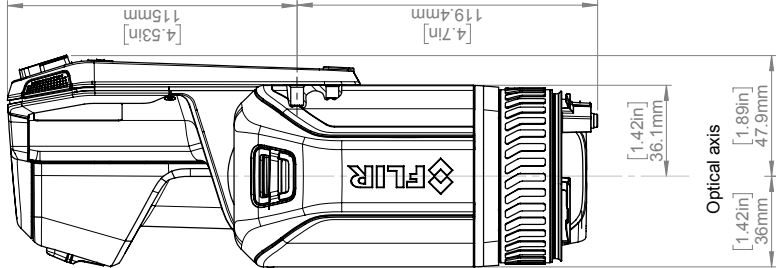
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Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> <li>• Accessory box I: <ul style="list-style-type: none"> <li>◦ Power supply for battery charger</li> <li>◦ Power supply, 15 W/3 A</li> <li>◦ Printed documentation</li> <li>◦ SD card (8 GB)</li> <li>◦ USB 2.0 A to USB Type-C cable, 1.0 m</li> <li>◦ USB Type-C to HDMI adapter, standard specification UH311</li> <li>◦ USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m</li> </ul> </li> <li>• Accessory box II: <ul style="list-style-type: none"> <li>◦ Lanyard strap, battery charger</li> <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> </ul>
Packaging, weight	
Packaging, size	500 × 190 × 370 mm (19.7 × 7.5 × 14.6 in.)
EAN-13	Sweden: 7332558012925 Estonia: 4743254003200
UPC-12	845188014612
Country of origin	Sweden and/or Estonia

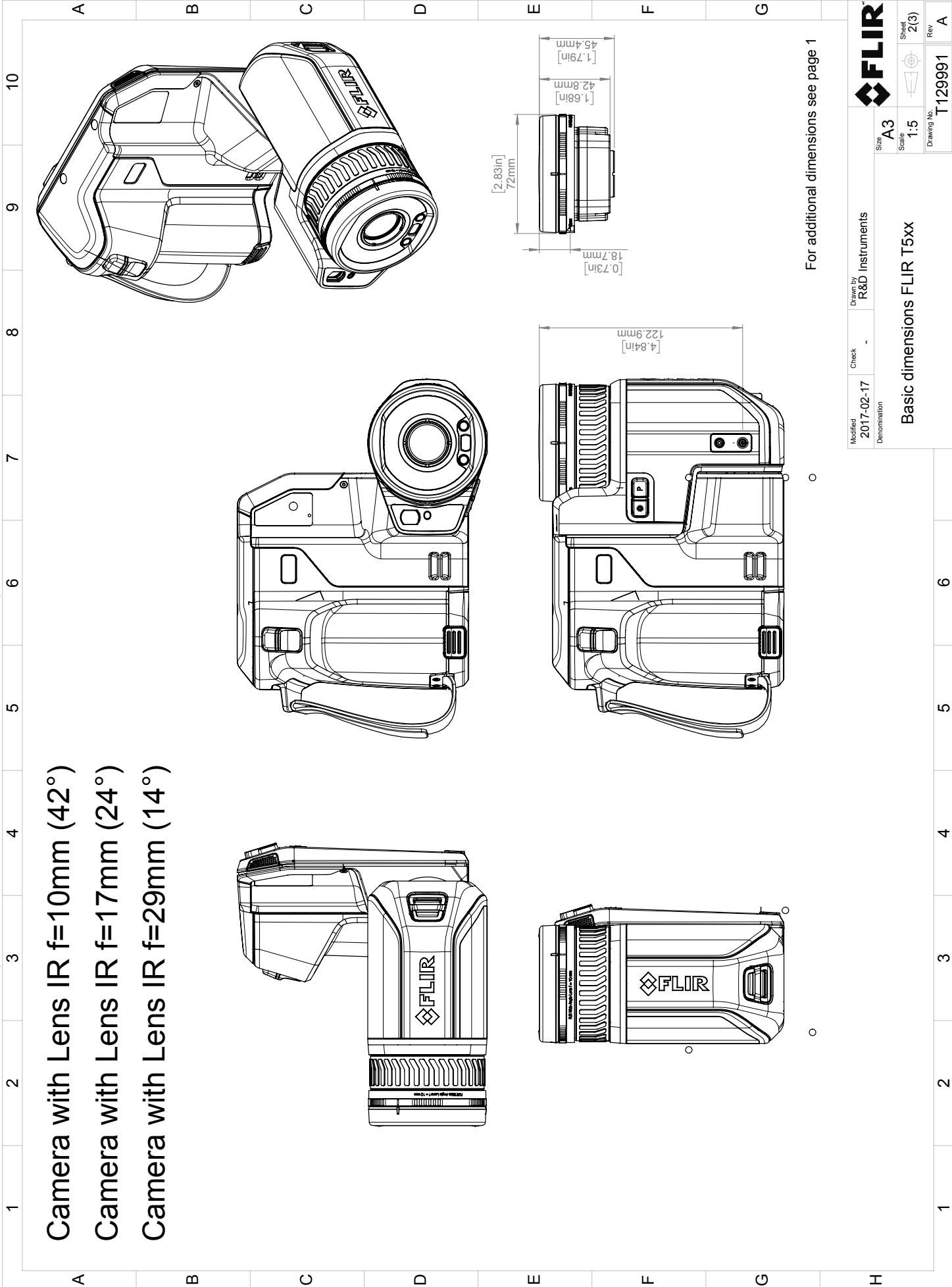
## Supplies and accessories:




- T198495; Pouch
- T911705ACC; USB Type-C to USB Type-C cable (USB 2.0 standard), 1.0 m
- T911632ACC; USB Type-C to HDMI adapter, standard specification UH311
- T911631ACC; USB 2.0 A to USB Type-C cable, 0.9 m
- T911630ACC; Power supply for camera, 15 W/3 A
- T911633ACC; Power supply for battery charger
- T199610; Battery charger
- T199300ACC; Battery
- T199601; Hand strap and neck strap
- T199347ACC; Hard transport case
- T199609; Macro mode 71/103 µm for 24°
- T199616; High temperature option, +300 to +1200°C
- T198583; FLIR Tools+ (download card incl. license key)

Camera housing

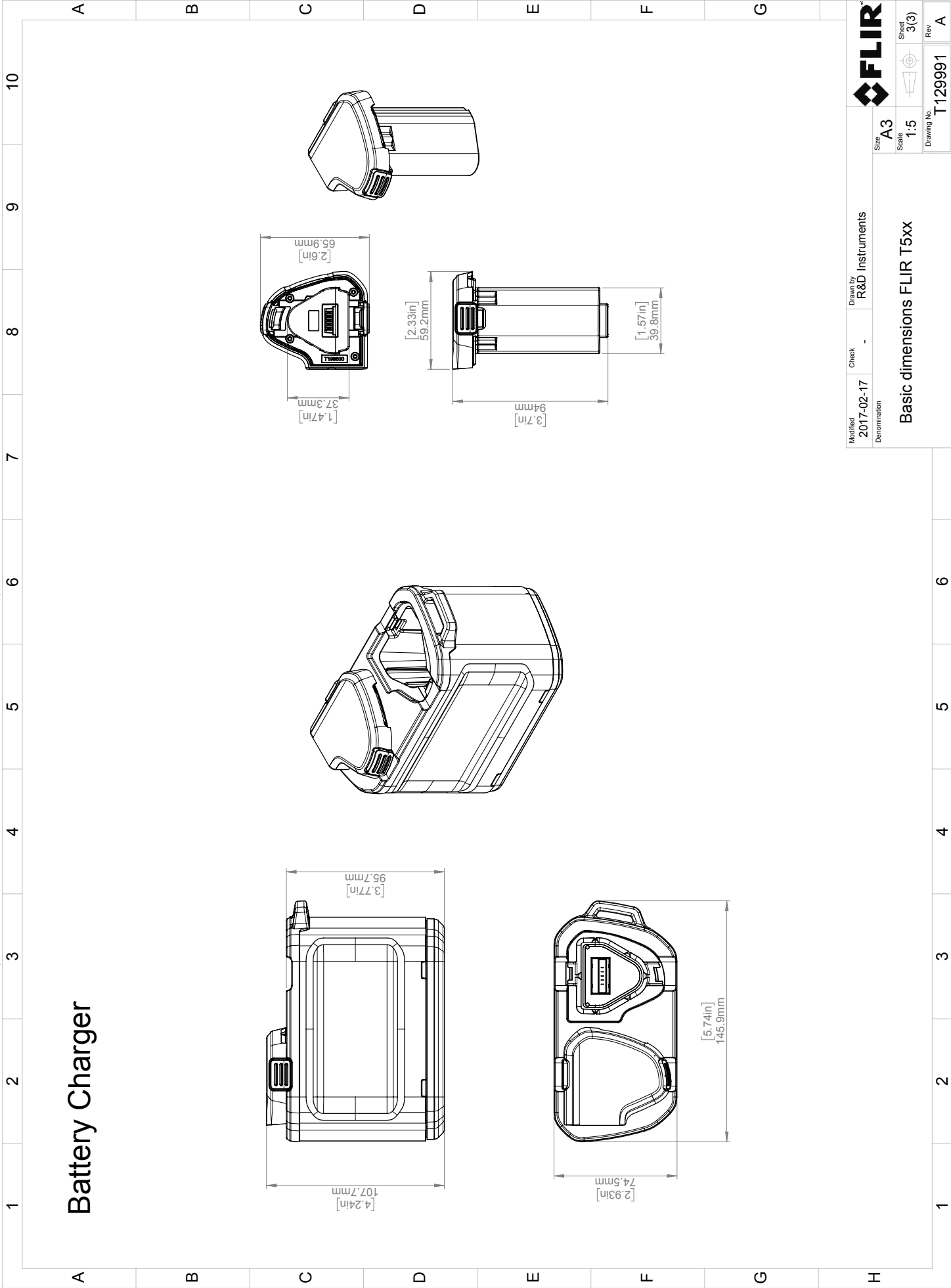


Modified 2017-02-17	Check -	Drawn by R&D Instruments	Size A3	Sheet 1(3)	Rev A
Denomination		Basic dimensions FLIR T5xx			
		Scale 1:2		Drawing No. T129991	



Modified 2017-02-17 Denomination		Check -	Drawn by R&D Instruments	Size A3			
Basic dimensions FLIR T5xx				Scale 1:5		Sheet 2(3)	
				Drawing No. T129991		Rev A	





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Modified 2017-02-17	Check -	Drawn by R&D Instruments			
Denomination			Size A3	Sheet 3(3)	Rev A
Basic dimensions FLIR T5xx			Scale 1:5	Drawing No. T129991	