

Part number:

62101-0101

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Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

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Imaging and optical data

IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 45 mK @ +30°C (+86°F)
Field of view (FOV) / Minimum focus distance	25° × 19° / 0.4 m (1.31 ft.)
Spatial resolution (IFOV)	1.39 mrad
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Zoom	2× and 4× digital zoom
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 μm

Image presentation

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image modes	IR image, visual image, thermal fusion, picture in picture, thumbnail gallery
Thermal fusion	IR image shown above, below or within temp interval on visual image
Multi Spectral Dynamic Imaging (MSX)	IR-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)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

Measurement analysis

Spotmeter	5
Area	5 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Isotherm	Detect high/low temperature/interval
Measurement presets	Yes
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Screening	Difference temperature alarm, audible



FLIR T420 25° (incl. Wi-Fi)

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Set-up

Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	User programmable button, local adaptation of units, language, date and time formats

Storage of images

Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images; simultaneous storage of IR and visual images
Periodic image storage	7 seconds to 24 hours (IR) 14 seconds to 24 hours (IR and visual)

Image annotations

Voice	60 seconds (via Bluetooth)
Text	Text from predefined list or soft keyboard on touch screen
Sketch	From touch screen
External sensors	Possible to connect (Bluetooth®): Extech Moisture Meter MO297 Extech Clamp Meter EX845
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 image

Video recording in camera and video streaming

Non-radiometric IR-video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card
Radiometric IR-video streaming	Full dynamic to PC using USB or Wi-Fi
Non-radiometric IR-video streaming	MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera

Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and one LED light
Digital camera, FOV	Adapts to the IR lens
Built-in digital lens data	FOV 53° × 41°

Laser pointer

Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image

Data communication interfaces

Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, composite video
Bluetooth	Communication with headset and external sensors
Wi-Fi	Peer to peer (ad hoc) or infrastructure (network)
USB	- USB-A: Connect external USB device - USB Mini-B: Data transfer to and from PC / Uncompressed colorized video

Radio

Wi-Fi	Standard: 802.11 b/g Frequency range: 2412–2462 MHz Max output power: 15 dBm
Bluetooth	Frequency range: 2402–2480 MHz
Antenna	Internal

Power system

Battery	Li Ion, 4 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger



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Power system

Power management	Automatic shutdown and sleep mode (user selectable)
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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

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
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Radio spectrum	• ETSI EN 300 328 • FCC Part 15.247 • RSS-210
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Encapsulation	IP 54 (IEC 60529)
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Bump	25 g (IEC 60068-2-29)
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Vibration	2 g (IEC 60068-2-6)
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Safety	EN/UL/CSA/PSE 60950-1
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Physical data

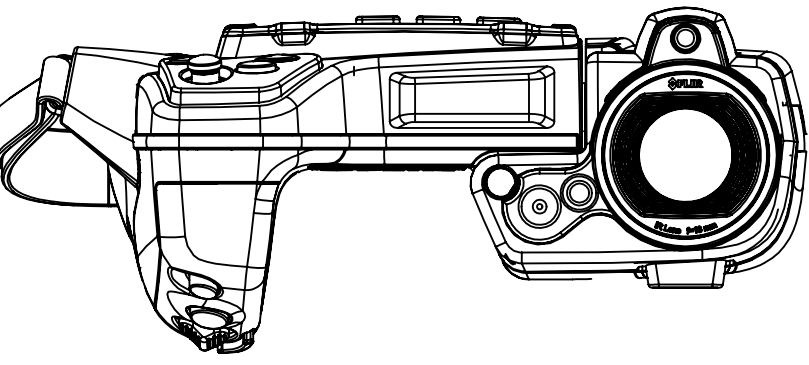
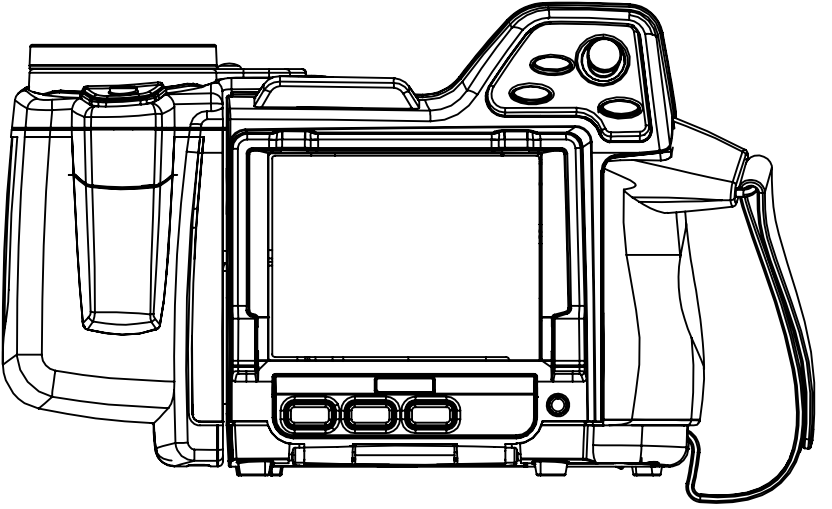
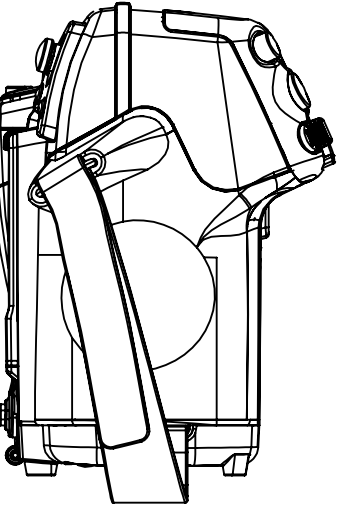
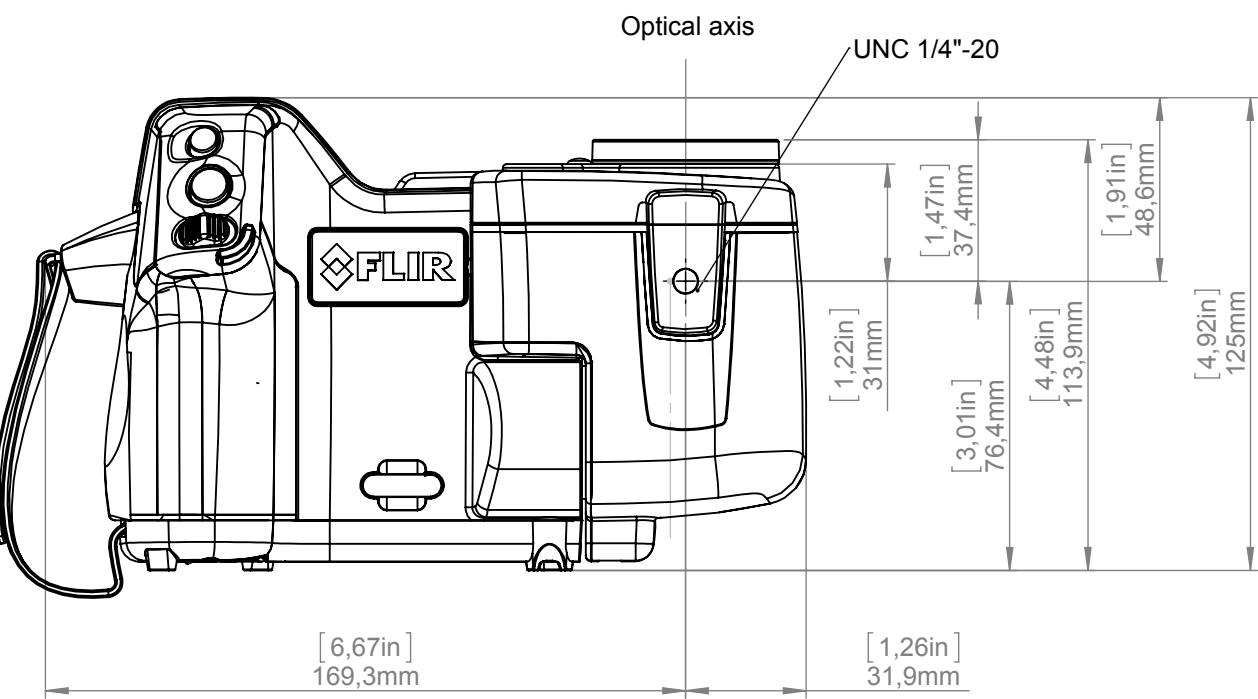
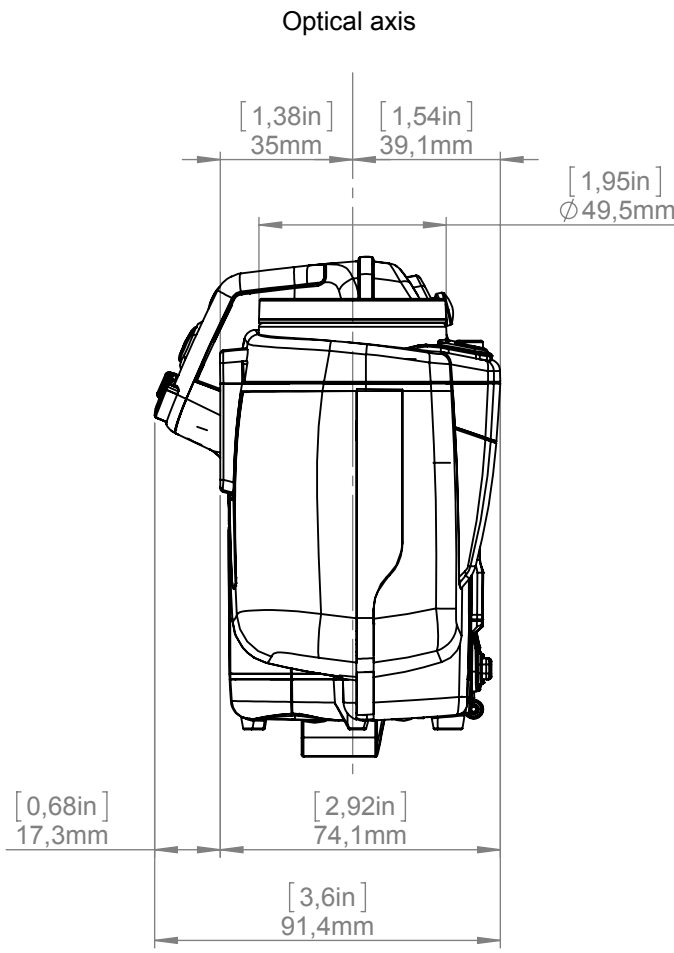
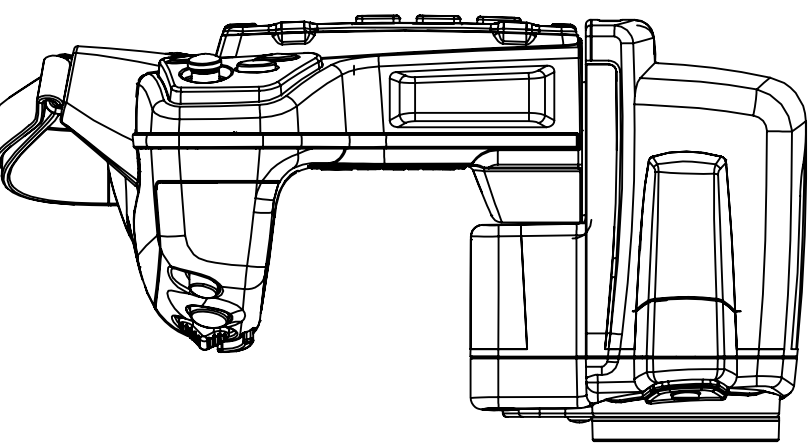
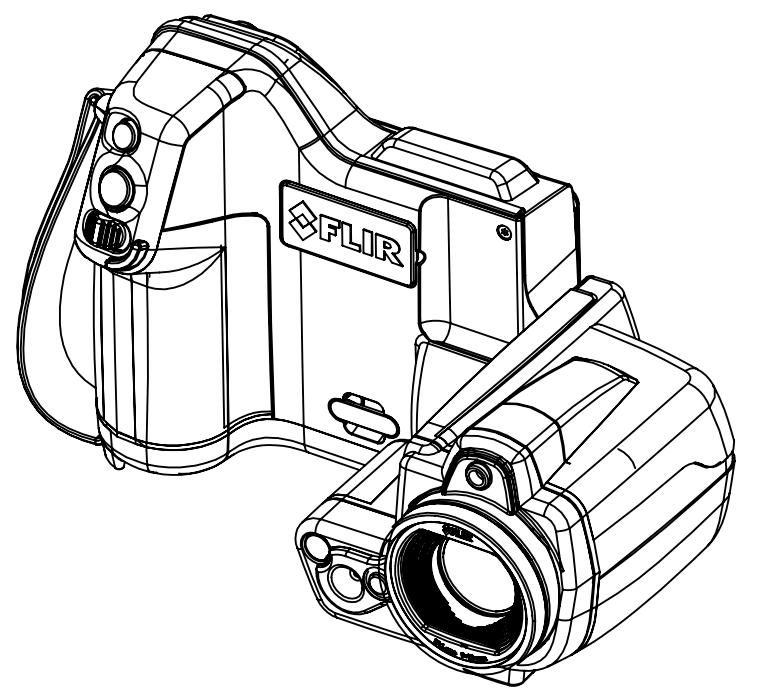
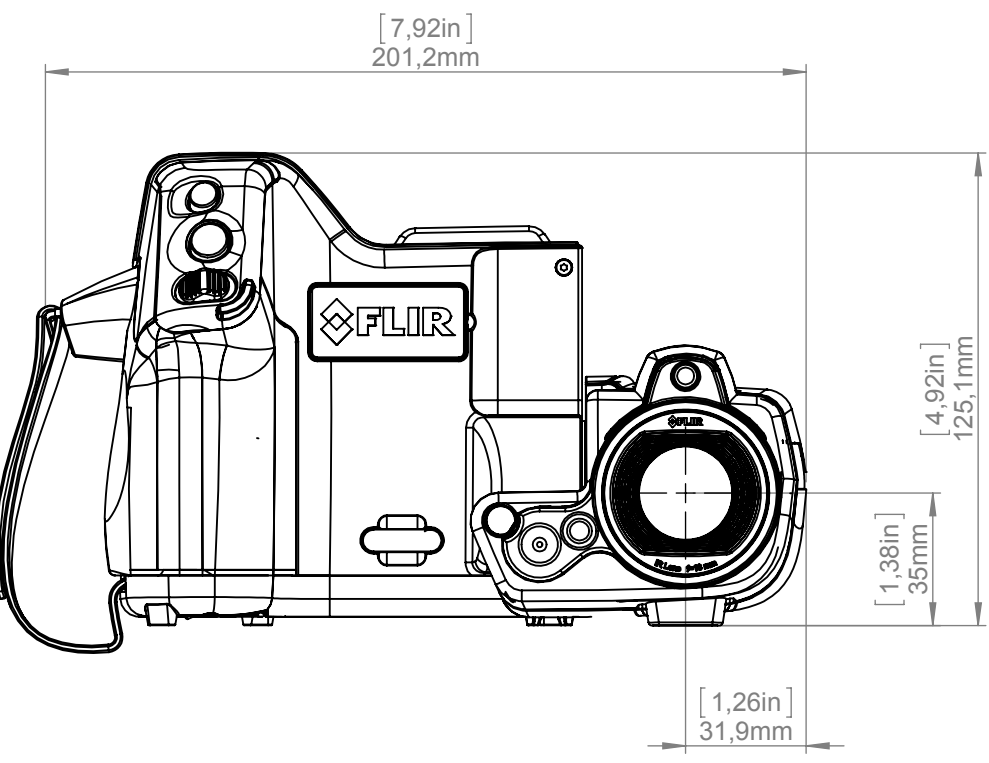
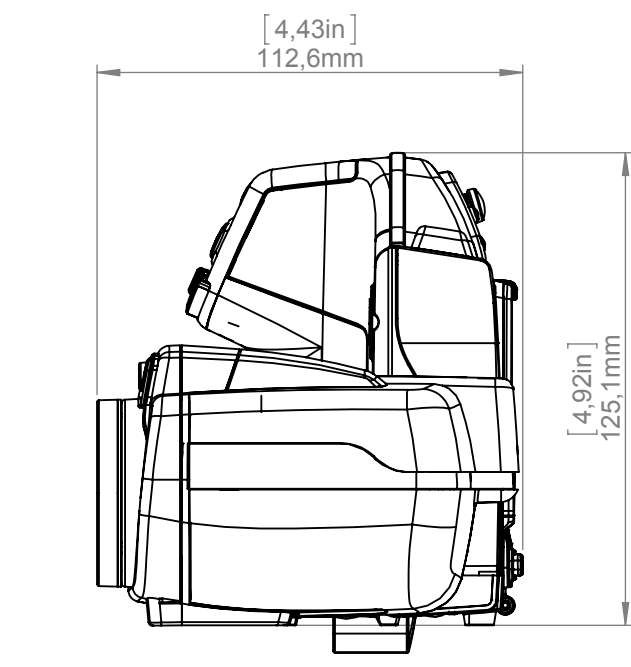
Camera weight, incl. battery	0.880 kg (1.94 lb.)
Camera size (L × W × H)	106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
Tripod mounting	UNC ¼"-20 (adapter needed)

Shipping information

- Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- Bluetooth headset
- Calibration certificate
- Camera lens cap
- Downloads brochure
- FLIR Tools download card
- FLIR Apps card
- Getting Started Guide
- Hard transport case
- Important Information Guide
- Memory card
- Neckstrap
- Optics brochure
- Power supply, incl. multi-plugs
- Service & training brochure
- Sunshield
- Thank you card
- USB cable
- User documentation CD-ROM
- Video cable
- Warranty extension card

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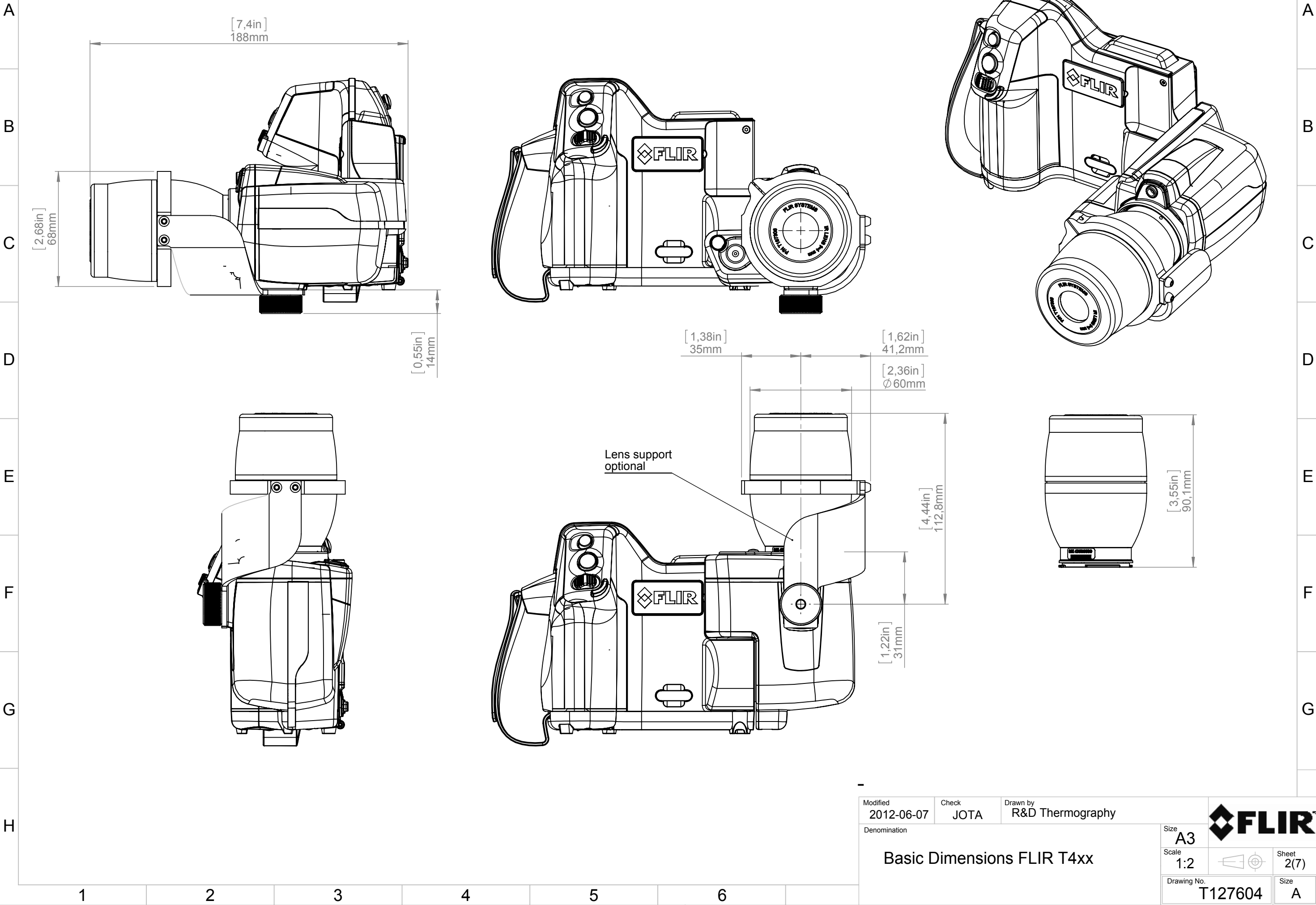
Camera with built-in IR lens f=18 mm (25°)



Modified 2012-06-07	Check JOTA	Drawn by R&D Thermography		
Denomination				
Basic Dimensions FLIR T4xx				
Size A3				
Scale 1:2				Sheet 1(7)
Drawing No. T127604			Size A	

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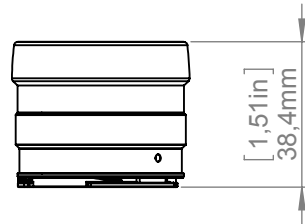
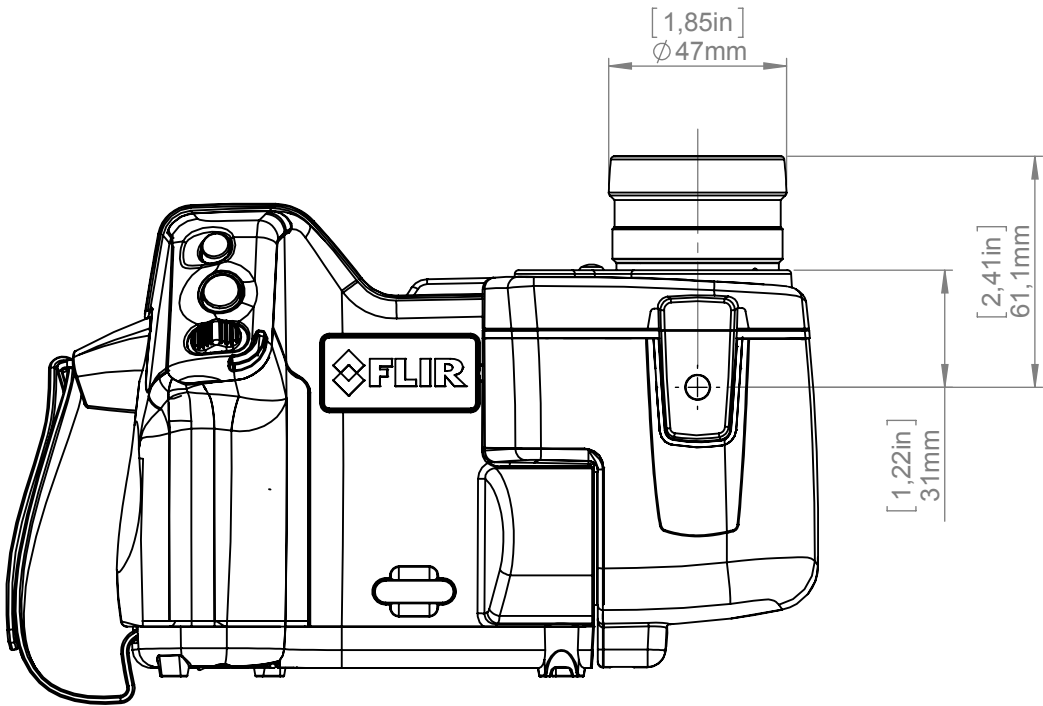
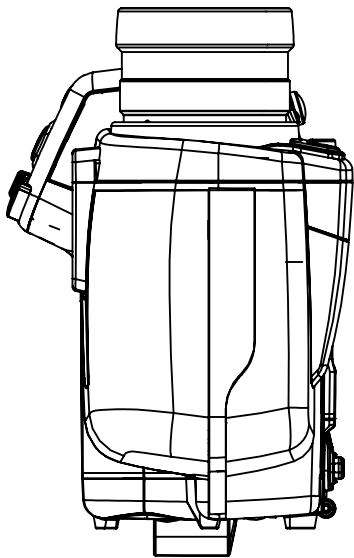
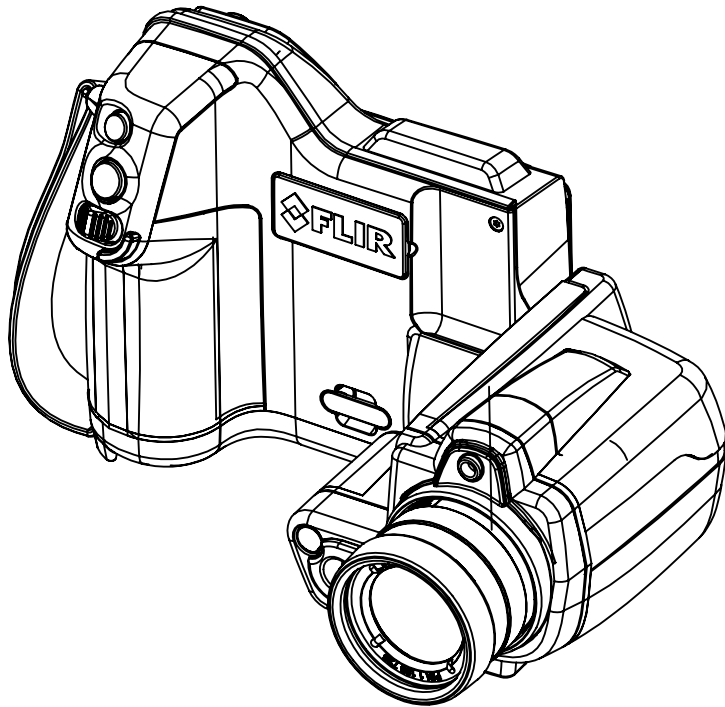
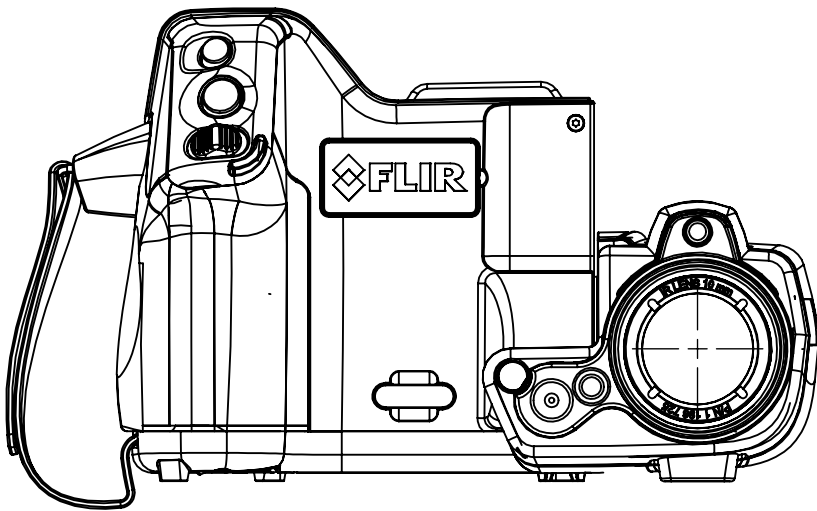
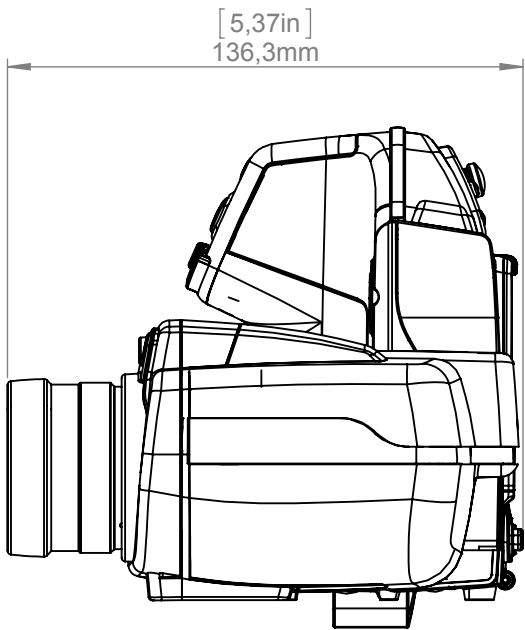
Camera with Lens IR f=4 mm (90°) incl support



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Denomination				Size A3	
Basic Dimensions FLIR T4xx				Scale 1:2	
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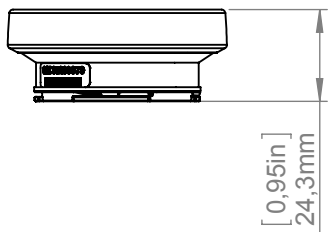
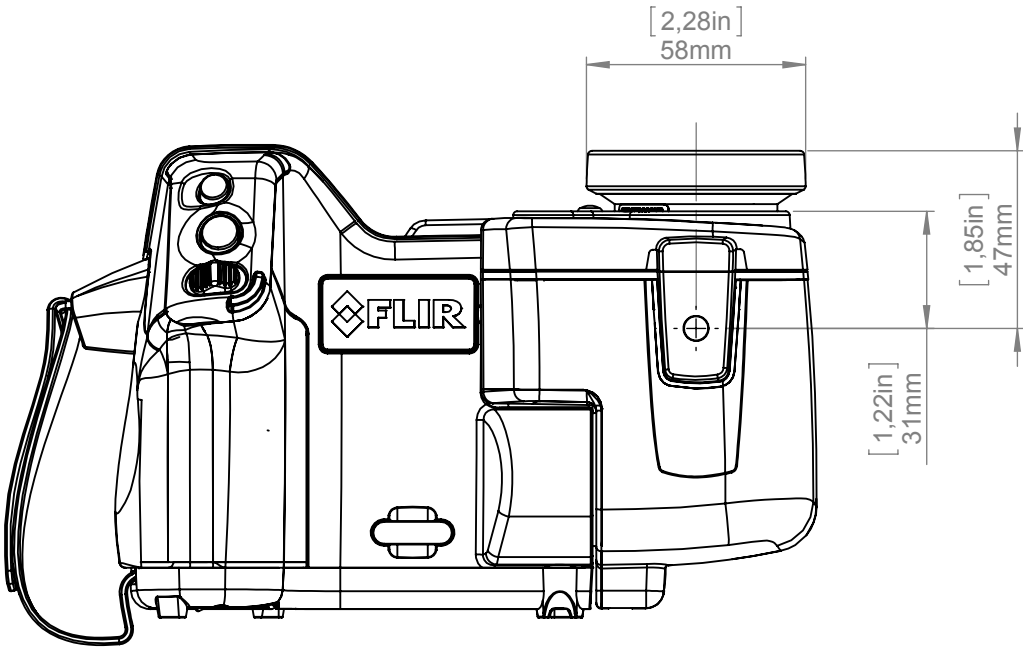
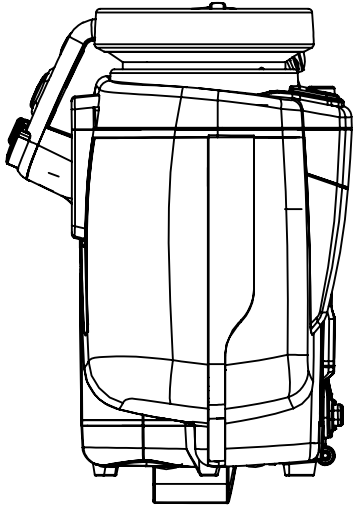
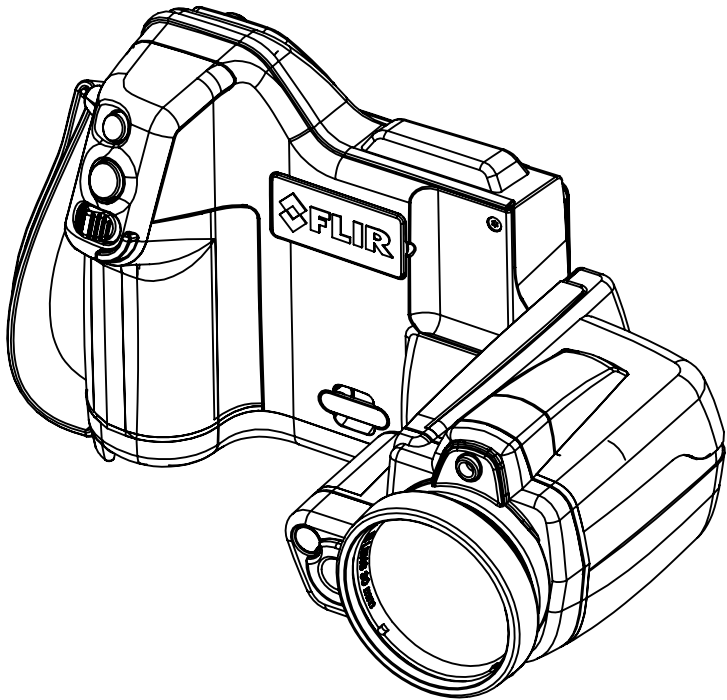
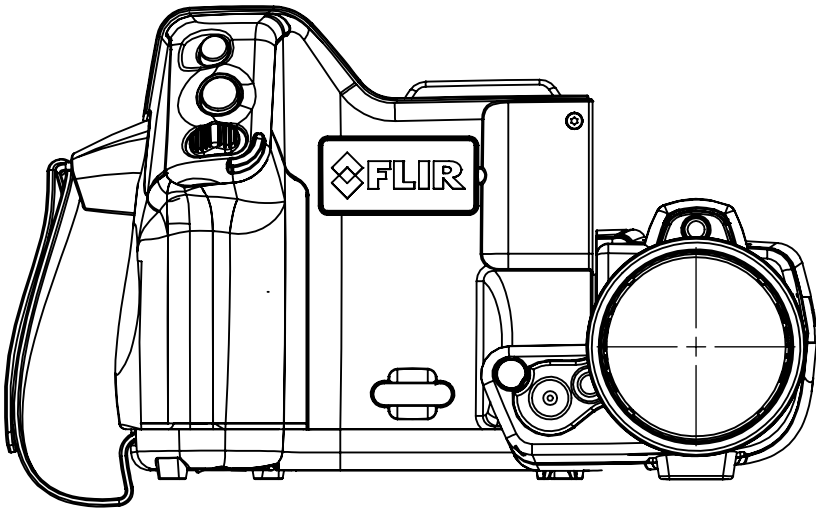
Camera with Lens IR f=10 mm (45°)



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Denomination					Size A3
Basic Dimensions FLIR T4xx					Sheet 3(7)
			Drawing No. T127604		Size A

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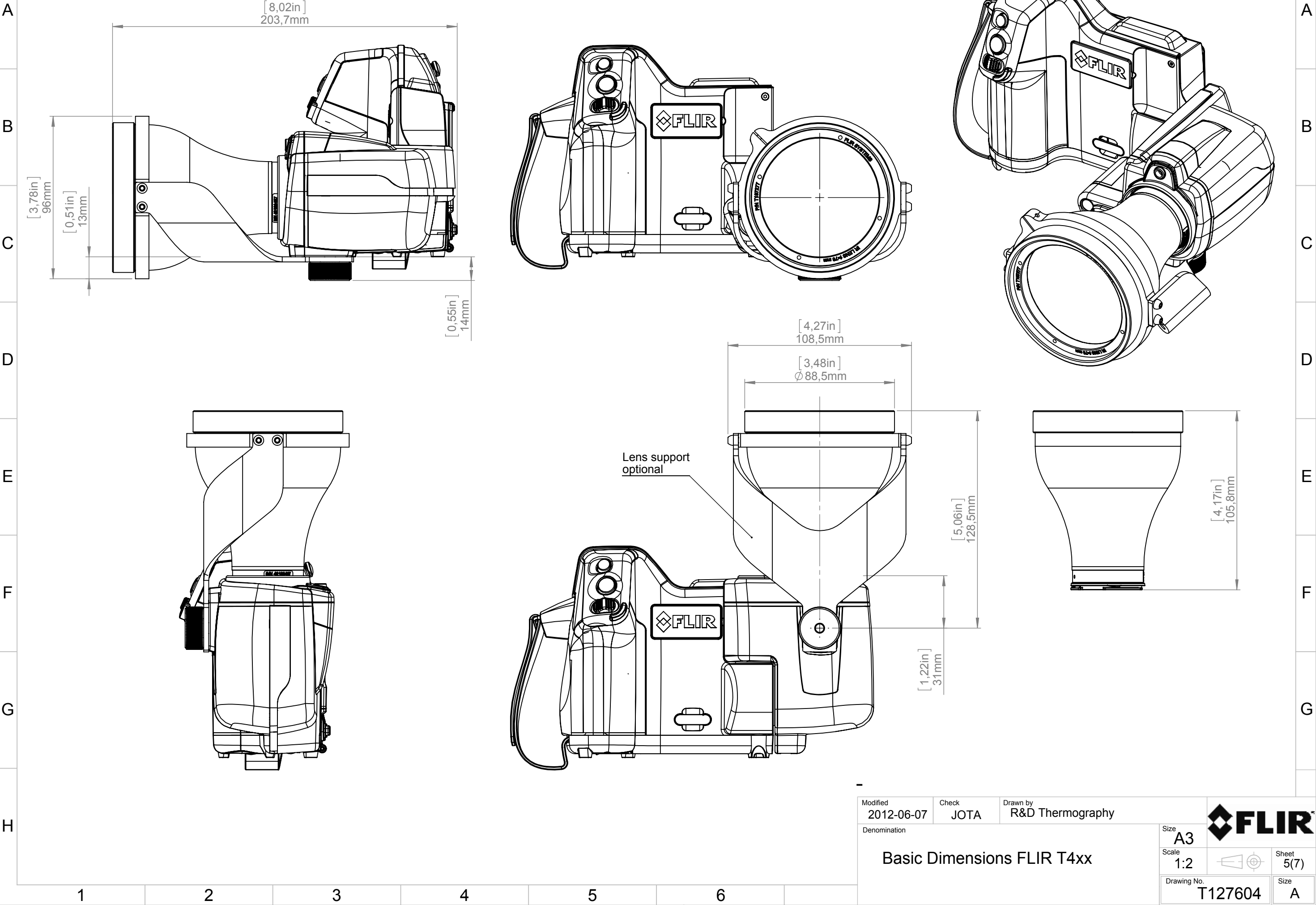
Camera with Lens IR f=30 mm (15°)



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Denomination					Size A3
Basic Dimensions FLIR T4xx					Sheet 4(7)
			Drawing No. T127604		Size A

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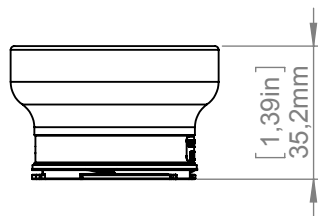
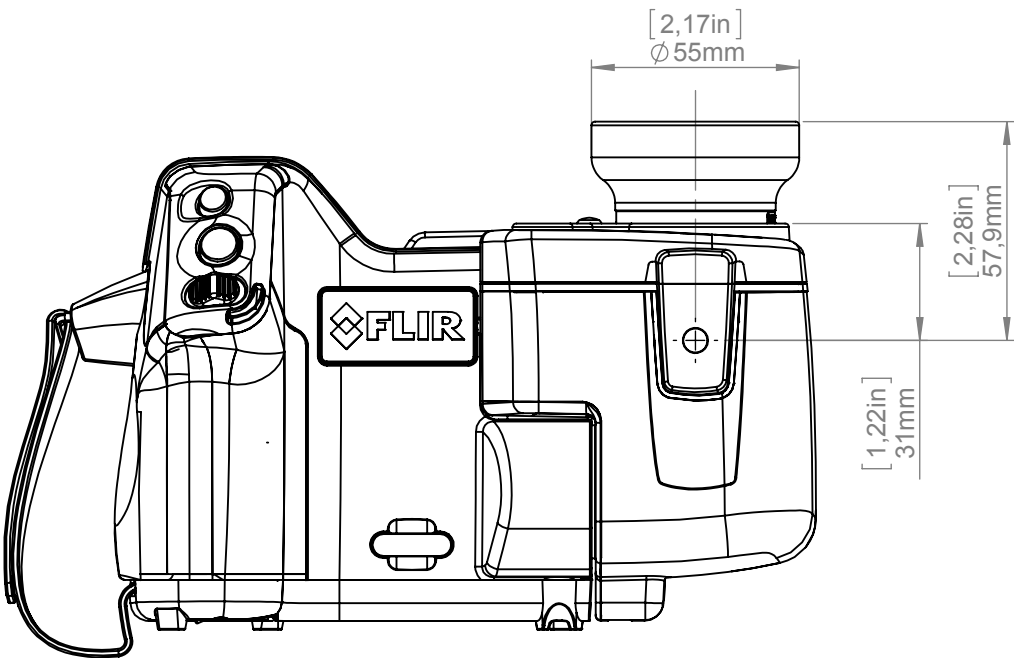
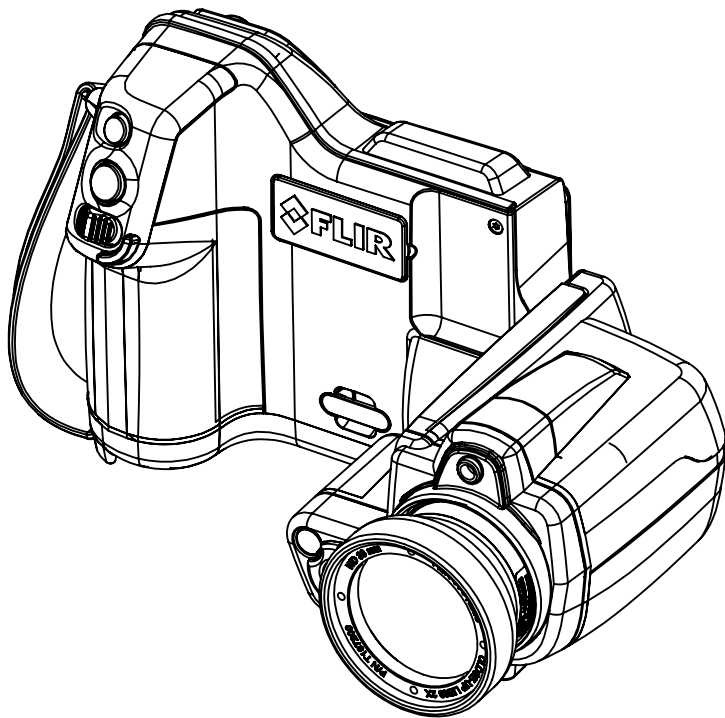
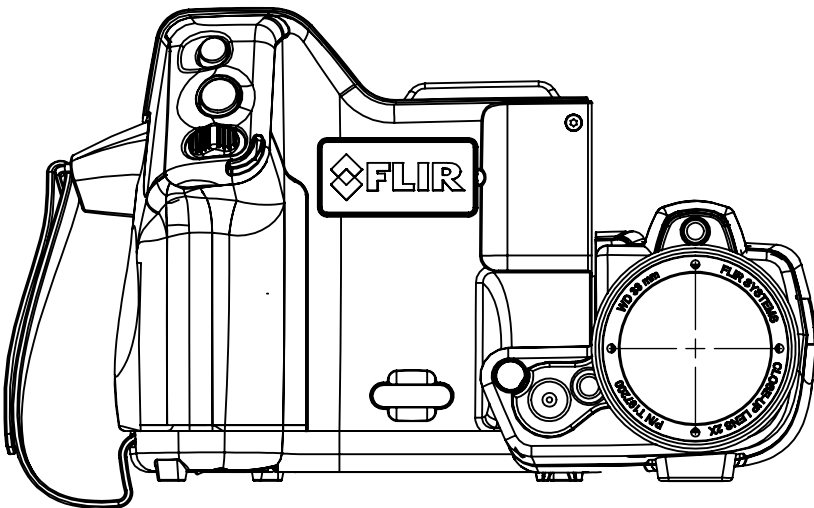
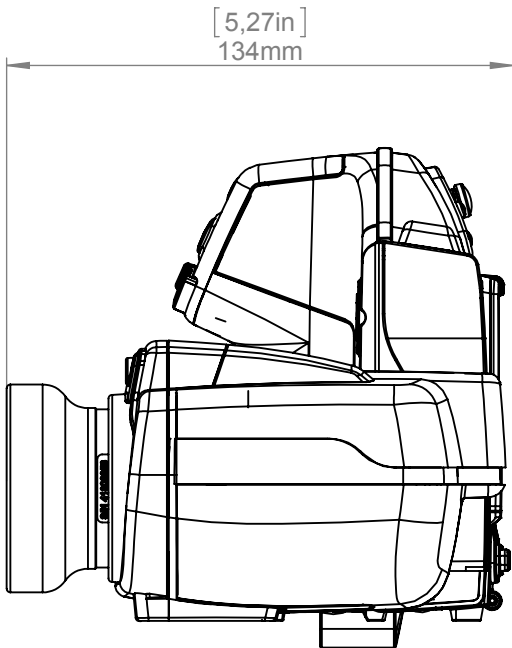
Camera with Lens IR f=76 mm (6°) incl support



Modified 2012-06-07	Check JOTA	Drawn by R&D Thermography		
Denomination				
Basic Dimensions FLIR T4xx			Size A3	
			Scale 1:2	 Sheet 5(7)
			Drawing No. T127604	

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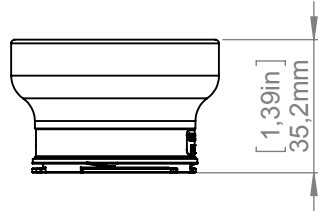
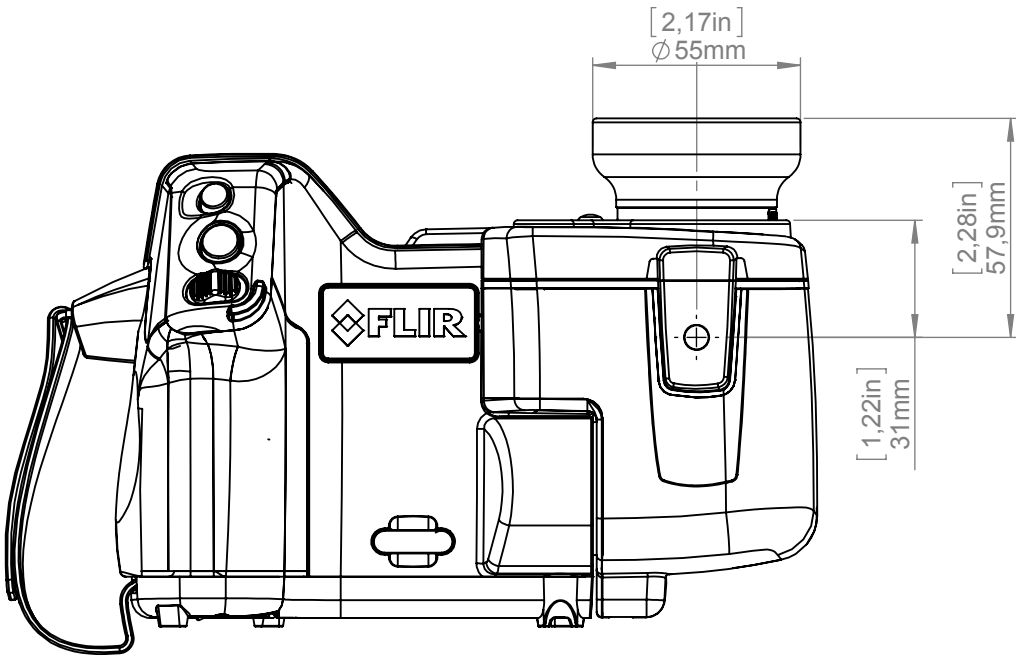
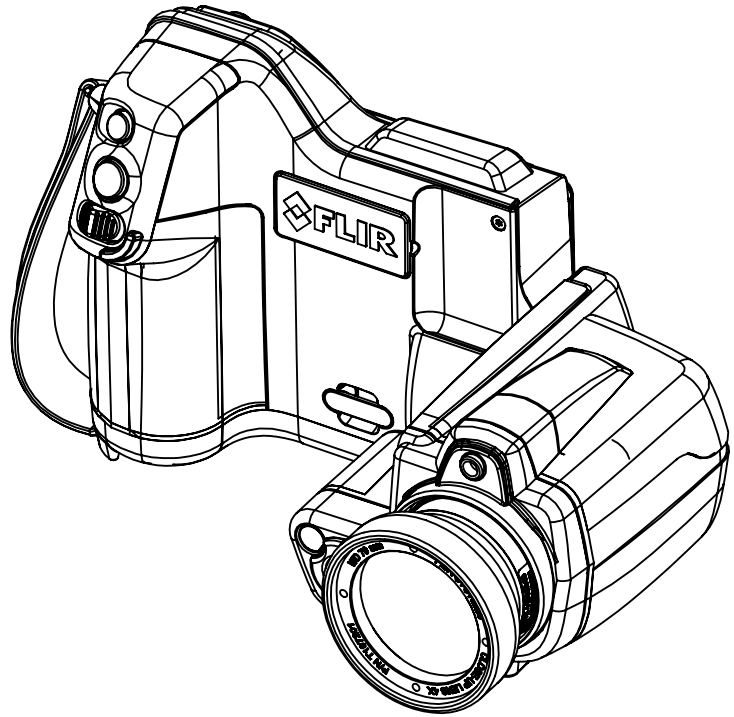
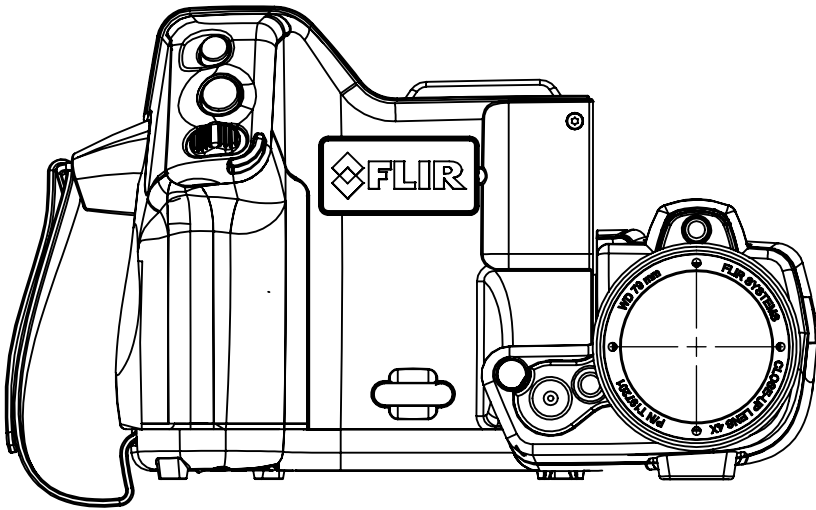
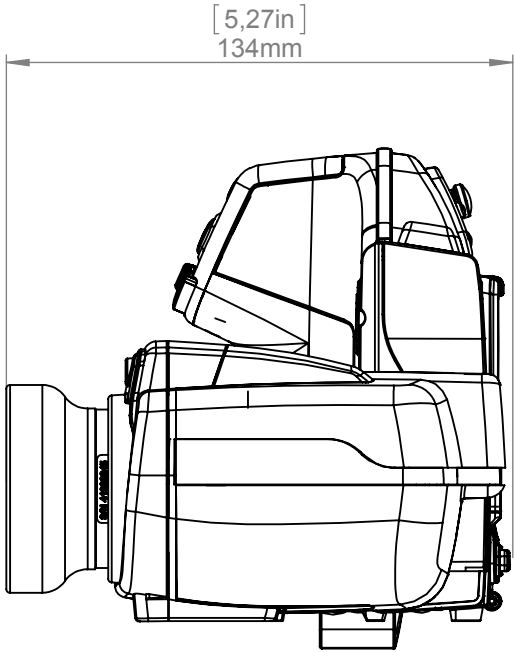
Camera with Close-up lens 2X (50 µm)



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Denomination							
Basic Dimensions FLIR T4xx			Size A3			Sheet 6(7)	
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Camera with Close-up lens 4X (100 μm)



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Denomination					
Basic Dimensions FLIR T4xx			Size A3		Sheet 7(7)
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