

P/N: 55903-5622

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General description

The FLIR T620bx is designed for the expert requiring the highest performance and the latest technology available. The camera combines excellent ergonomics and a walk-up-and-use interface with superior image quality of 640×480 pixel IR resolution. The T620bx is flexible and can meet your every need, and has extensive communication options.

Benefits

- Highest performance with the latest technology: The T620bx camera is equipped with the innovative 'Multi Spectral Dynamic Imaging (MSX)' feature, which produces an image richer in detail than ever before.
- Ground-breaking efficiency: You can highlight objects of interest, on both the IR and the visual
 images, by sketching or adding pre-defined stamps directly on the camera's capacitive touch
 screen. The user interface is intuitive and logical for effective operation. Auto-orientation allows you
 to tilt between landscape and portrait views.
- Extensive communication options: The Wi-Fi connectivity of the T620bx allows you to connect to smart phones or tablet PCs 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 IR image.

Imaging and optical data	
IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	15° × 11°
Minimum focus distance	0.5 m (1.64 ft.)
Focal length	41 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual



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Imaging and optical data	
Digital zoom	1-4× continuous
Digital image enhancement	Adaptive digital noise reduction
Detector data	
Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800×480 pixels
Automatic image adjustment	Continuous, histogram based
Automatic image adjustment, type	Standard or histogram based from image conten
Manual image adjustment	Linear based; Possible to adjust level/span/max/min
Image presentation modes	
Infrared image	Full color IR image
Visual image	Full color visual image
Multi Spectral Dynamic Imaging (MSX)	Thermal image with enhanced detail presentation
Picture in Picture	Resizable and movable IR area on visual image
Measurement	
Object temperature range	-40°C to +150°C (-40°F to +302°F)
	+100°C to +650°C (+212°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Spotmeter	10
Area	5 areas (boxes or circles) with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Measurement presets	No measurements, Center spot, Hot spot, Cold spot, User preset 1, User preset 2
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set using difference temperature
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
	Emissivity table of predefined materials



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Measurement analysis	
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature
Alarm	
Measurement function alarm	Audible/visual alarms (above/below) on any selected measurement function
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	
Set-up commands	Define user presets, Save options, Programmable button, Reset options, Set up camera, Wi-Fi, GPS & compass, Bluetooth, Language, Time & units, Camera information
Service functions	
Camera software update	Use PC software FLIR Tools
Storage of images	
Storage media	Removable memory SD card
Image storage mode	Simultaneous storage of thermal and digital photo in same JPEG.
	Optional to store digital photo as separate JPEG.
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image
Image annotations	
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 Separate PC software with extensive report generation
Geographic Information System	
GPS	Location data automatically added to every image from built-in GPS
Compass	Camera direction automatically added to every image



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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	5 Mpixel with LED light	
Digital camera, FOV	Adapts to the IR lens	
Video lamp	Built-in LED light	
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, 1 mW, 635 nm (red)	
Data communication interfaces		
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	
Audio	Microphone headset via Bluetooth for voice annotation of images	
USB		
USB	USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC / Uncompressed colorized video	
USB, standard	USB 2.0 High Speed	
USB, connector type	USB-A connector USB Mini-B connector	
Composite video		
Video out	Digital Video Output (DVI)	
Video, connector type	HDMI compatible	



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Frequency Max output	ange: 2412–2462 MHz power: 15 dBm range: 2402–2480 MHz ble Li Ion battery at 25°C (+68°F) and typical use AC adapter or 12 V from a vehicle) or ger % capacity, charging status indicated	
Bluetooth Frequency Antenna Internal Power system Battery type Recharge Battery operating time > 2.5 hour Charging system In camera 2-bay cha Charging time 2.5 h to 90 by LED's Charging temperature 0°C to +44 External power operation AC adapte vehicle (co. Power management Automatic selectable) Environmental data Operating temperature range -15°C to -40°C to	range: 2412–2462 MHz power: 15 dBm range: 2402–2480 MHz ble Li Ion battery at 25°C (+68°F) and typical use AC adapter or 12 V from a vehicle) or ger	
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Charging system Charging time 2.5 h to 90 by LED's Charging temperature External power operation AC adapte vehicle (composer of the composer of the compo	AC adapter or 12 V from a vehicle) or ger	
2-bay cha Charging time 2.5 h to 90 by LED's Charging temperature 0°C to +49 External power operation AC adapte vehicle (content of the content of the co	ger	
by LED's Charging temperature 0°C to +48 External power operation AC adapte vehicle (call power management) Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) EMC EMC ETSIE ETSIE EN 61 EN 61 EN 61 EN 62 ENS-2 Encapsulation IP 54 (IEC	% capacity, charging status indicated	
External power operation AC adapte vehicle (call power management) Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) EMC EMC ETSIE EN 61 EN 61 EN 61 EN 62 EN 62 EN 62 EN 63 EN 64 EN 65 EN		
Power management Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) EMC EMC EMC EMC ESTSIE ENSIGN ETSIE ENSIGN ENS	°C (+32°F to +113°F)	
Environmental data Operating temperature range	90–260 VAC, 50/60 Hz or 12 V from a ble with standard plug, optional)	
Operating temperature range	shutdown and sleep mode (user	
Storage temperature range		
Humidity (operating and storage)	50°C (+5°F to +122°F)	
C to +40°C	70°C (–40°F to +158°F)	
ETSI E	2-30/24 h 95% relative humidity +25° (+77°F to +104°F) / 2 cycles	
Encapsulation • EISIE • FCC P • RSS-2 IP 54 (IEC	N 301 489-1 (radio) N 301 489-17 00-6-2 (Immunity) 00-6-3 (Emission) CFR Part 15 Class B (Emission) 03	
1	N 300 328 rt 15.247 0	
Bump 25 g (IEC	60529)	
	0068-2-29)	
Vibration 2 g (IEC 6	068-2-6)	
Safety EN/UL/CS	V/DCE 600E0 1	
Physical data		
Weight 1.33 kg (2	WL2E 00A201-1	
Size (L × W × H) 143 × 195		
,		
Tripod mounting UNC 1/4"-2	93 lb.)	
Housing material Magnesiu	93 lb.) × 95 mm (5.6 × 7.7 × 3.7 in.) × 95 mm (5.6 × 7.7 × 3.7 in.)	

\$FLIR

FLIR T620bx 15° (incl. Wi-Fi)

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Shipping information

- · Infrared camera with lens
- · Battery (2 ea.)
- · Battery charger
- Bluetooth headset
- · Calibration certificate
- · FLIR Tools download card
- User documentation CD-ROM
- User documentation CD-RON
 Printed documentation
- HDMI-DVI cable
- HDMI-HDMI cable
- · Hard transport case
- · Lens cap
- Memory card
- Neck strap
- · Power supply, incl. multi-plugs
- Tripod adapter
- · USB cable, Std A to Mini-B

EAN-13	7332558006863
UPC-12	845188007218
Country of origin	Sweden

Supplies & accessories:

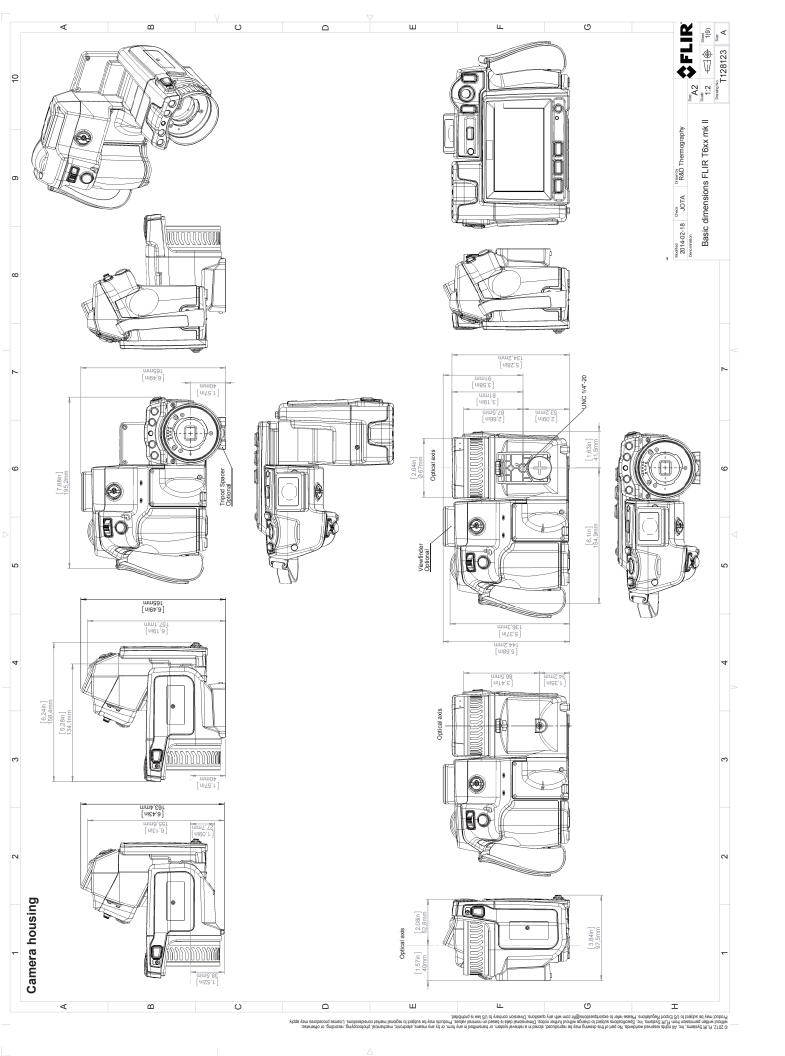
- T197914; IR lens, f=41.3 mm (15°) with case
- T197922; IR lens, f=24.6 mm (25°) with case
- T197915; IR lens, f=13.1 mm (45°) with case
- T198059; Close-up IR lens, 2.9× (50 $\mu m)$ with case
- T198060; Close-up IR lens, 5.8x (100 μm) with case
- T198166; IR lens, f=88.9 mm (7°) with case and support for T6xx
- T198065; IR lens, f=6.5 mm (80°) with case
- T198066; Close-up IR lens, 1.5× (25 μm) with case
- T197896; High temp option +300°C to 2000°C (+572°F to 3632°F) for FLIR A6xxsc and T6xx
- T910814; Power supply, incl. multi plugs
- T198126; Battery charger, incl. power supply with multi plugs T6xx
- T198506; Li-Ion Battery pack 3.7V 29Wh
- 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.
- T910930ACC; HDMI type C to DVI cable 1.5 m
- T910891ACC; HDMI type C to HDMI type A cable 1.5 m
- T198625ACC; Hard transport case for T6xx series
- T198495; Pouch for FLIR T6xx and T4xx series
- T198497; Large eyecup
- T198498; Tripod Adapter
- T198496; Stylus pen
- T198499; Neck strap
- T197771ACC; Bluetooth Headset
- T910972; EX845: Clamp meter + IR therm TRMS 1000A AC/DC
- T910973; MO297: Moisture meter, pinless with memory
- T911093; Tool belt
- T198586; FLIR Reporter Professional (license only)
- T198584; FLIR Tools
- T198583: FLIR Tools+ (license only)
- DSW-10000; FLIR IR Camera Player

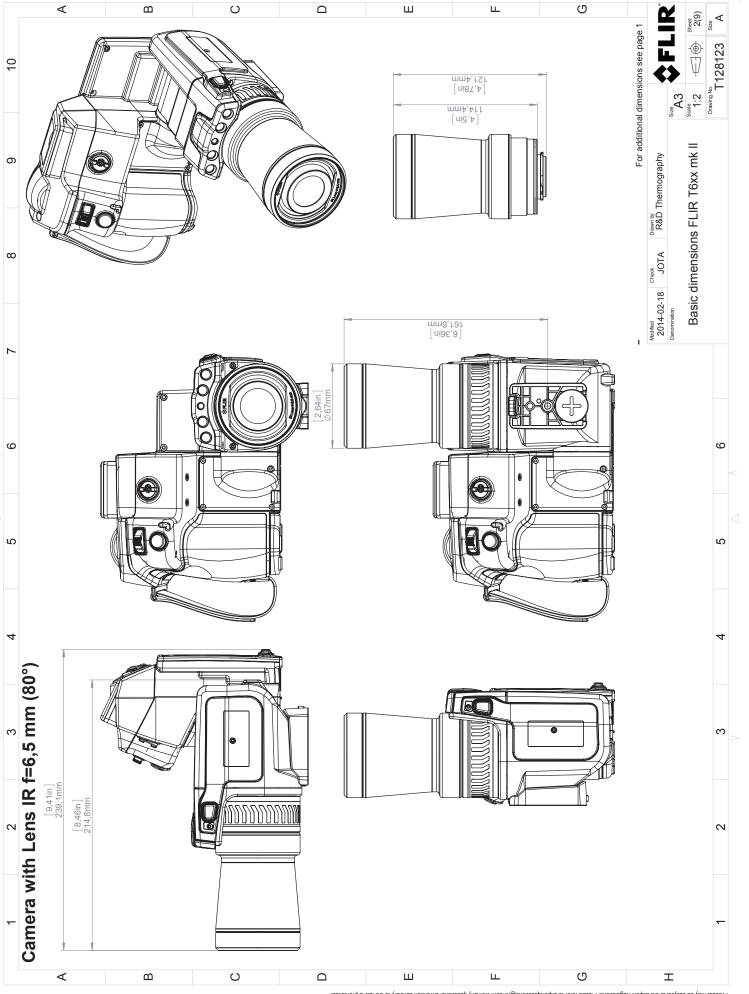


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- APP-10002; FLIR Tools Mobile (Android Application)
- APP-10004; FLIR Tools (MacOS Application)
- T127597L5; FLIR ResearchIR 3 (license only), 5 user licenses
- T127597L10; FLIR ResearchIR 3 (license only), 10 user licenses
- T127598L5; FLIR ResearchIR 3 Max (license only), 5 user licenses
- T127598L10; FLIR ResearchIR 3 Max (license only), 10 user licenses
- T198696; FLIR ResearchIR Max 4
- T198697; FLIR ResearchIR Max + HSDR 4
- T198579; FLIR ResearchIR 3 (CD)
- T198578; FLIR ResearchIR 3 (license only)
- T198575; FLIR ResearchIR 3 Max (CD)
- T198574; FLIR ResearchIR 3 Max (license only)
- T198292; Upgrade previous version to FLIR ResearchIR 3
- T198291; Upgrade previous version to FLIR ResearchIR 3 Max
 T198290; Upgrade FLIR ResearchIR 3 to FLIR ResearchIR 3 Max

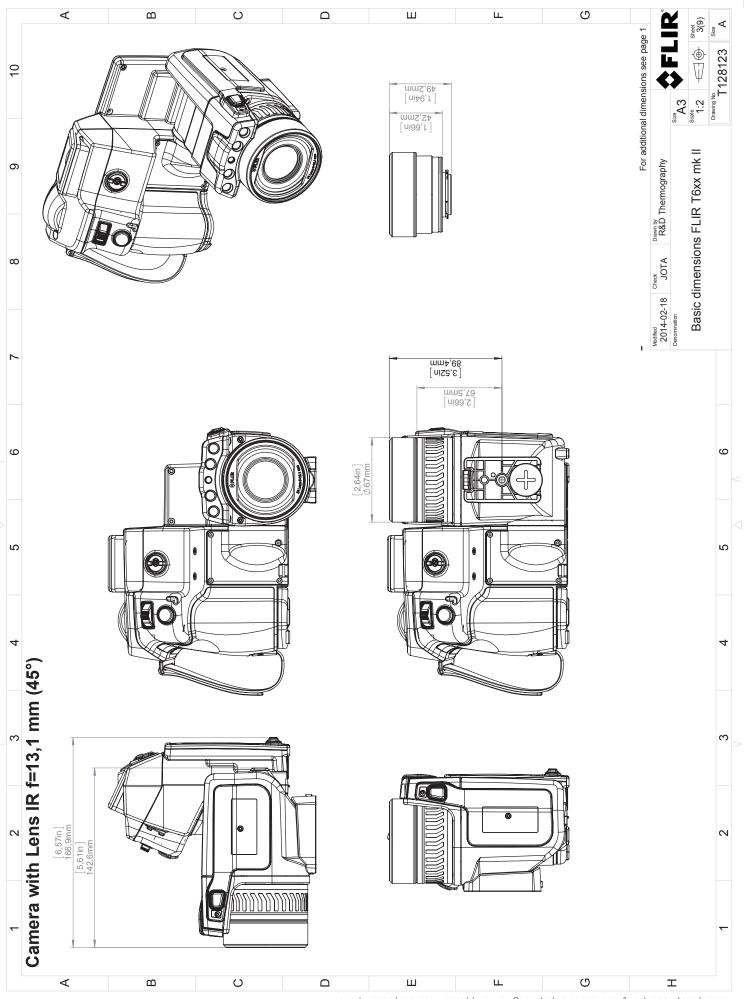




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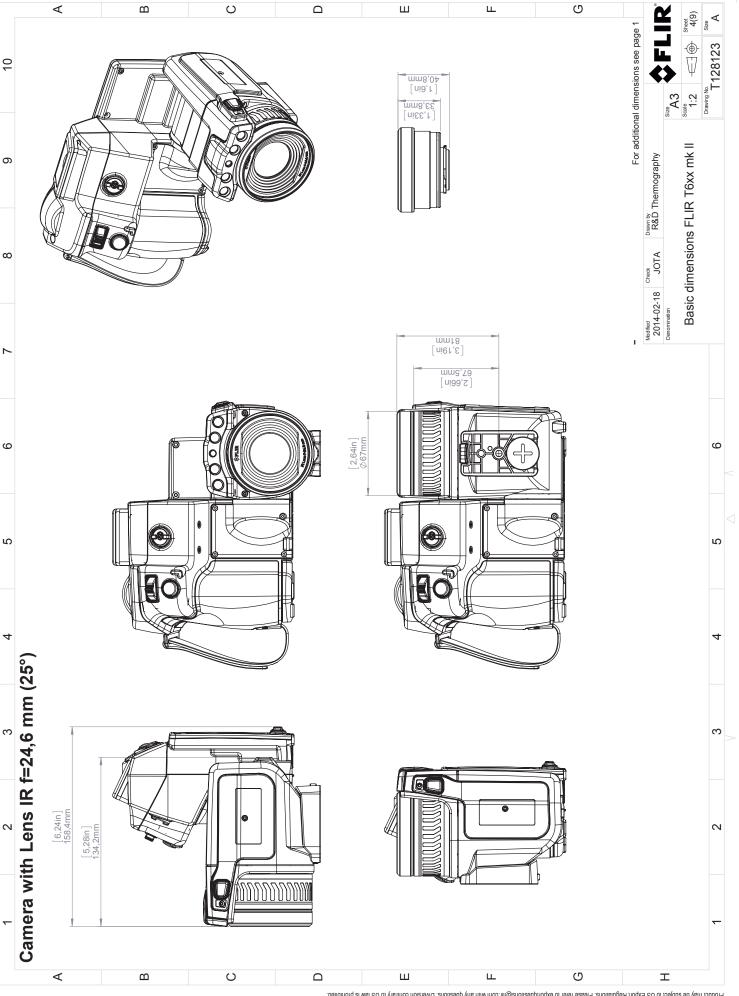
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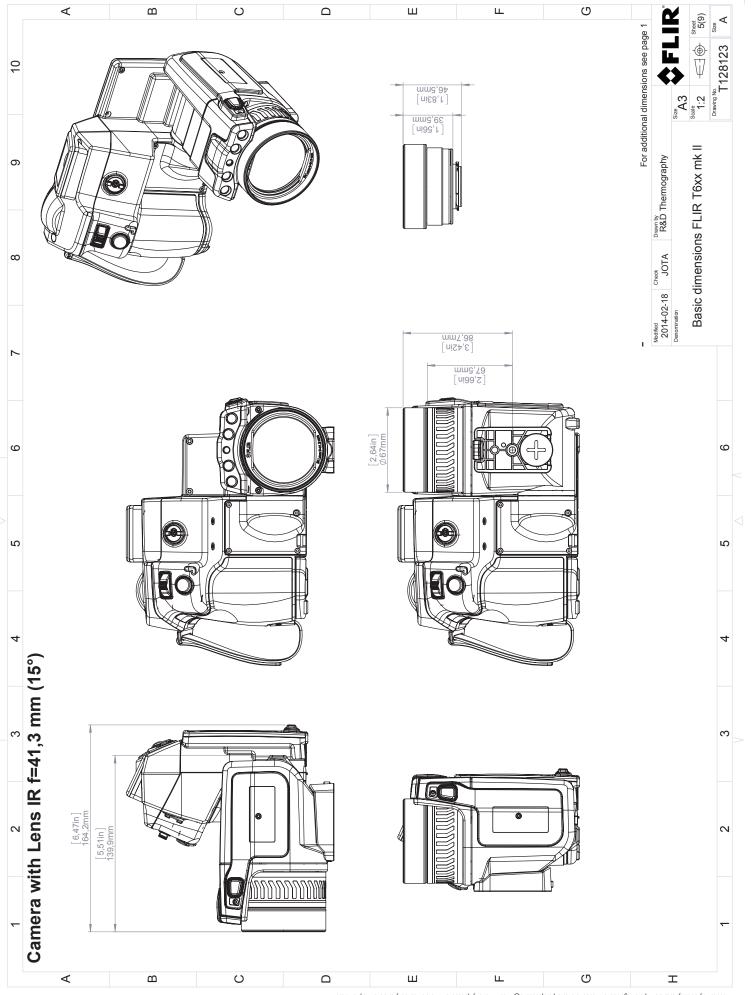
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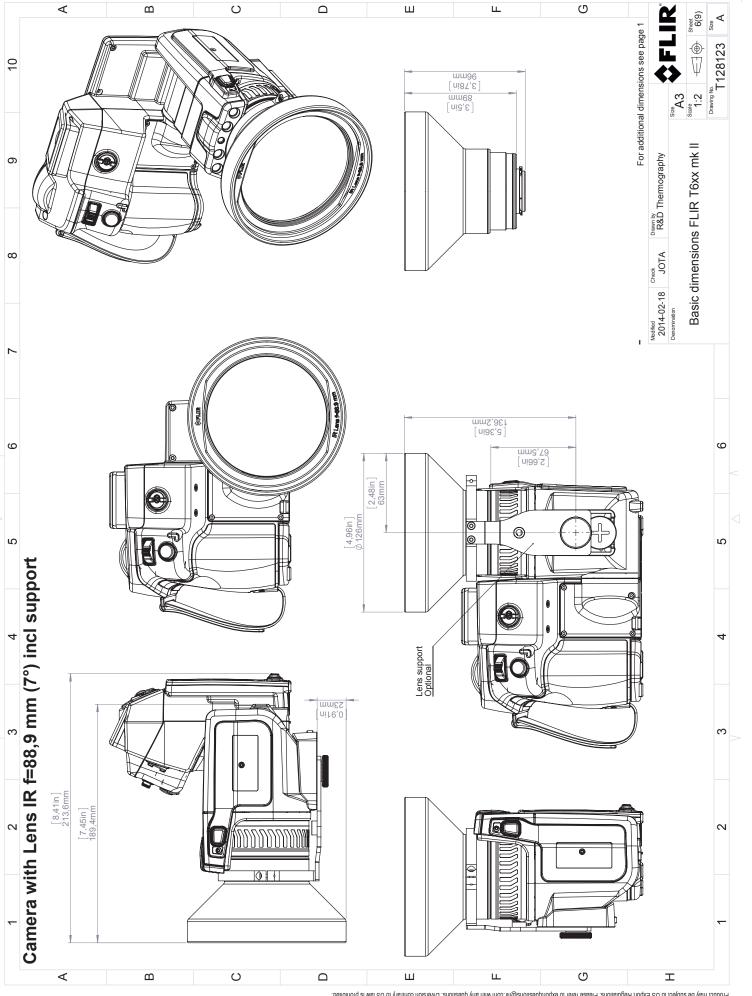
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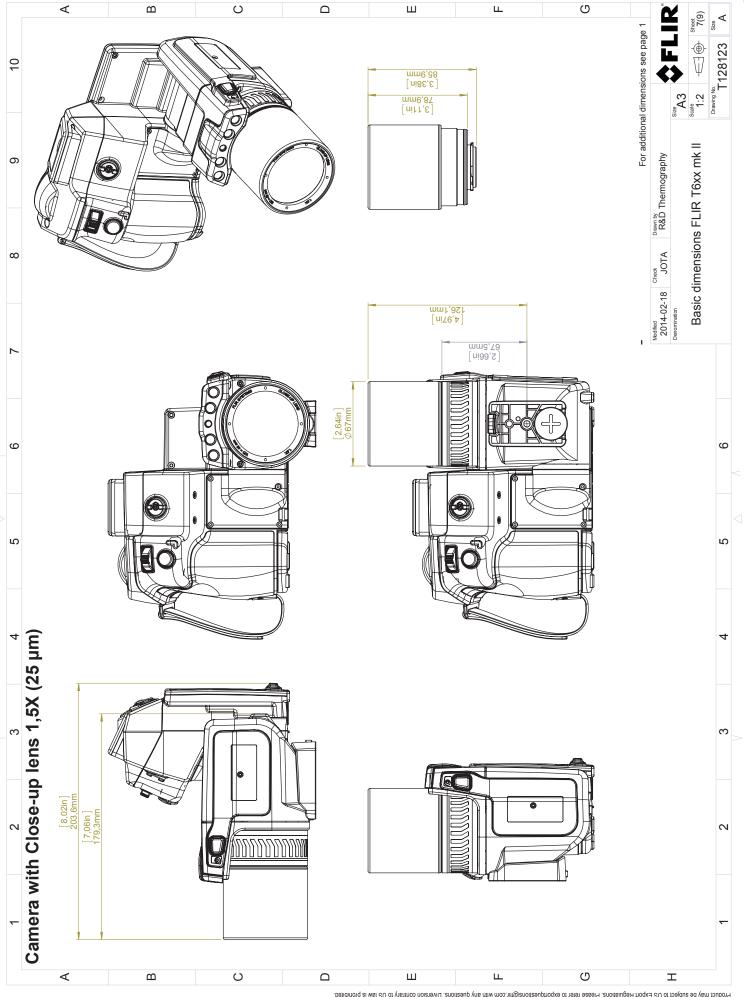
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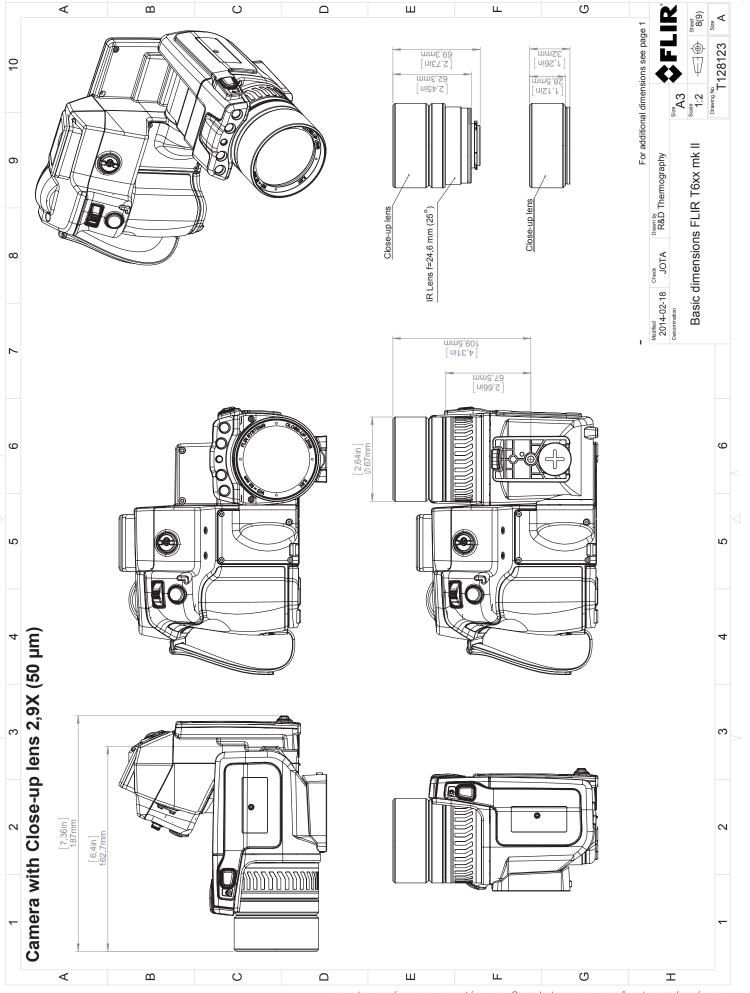
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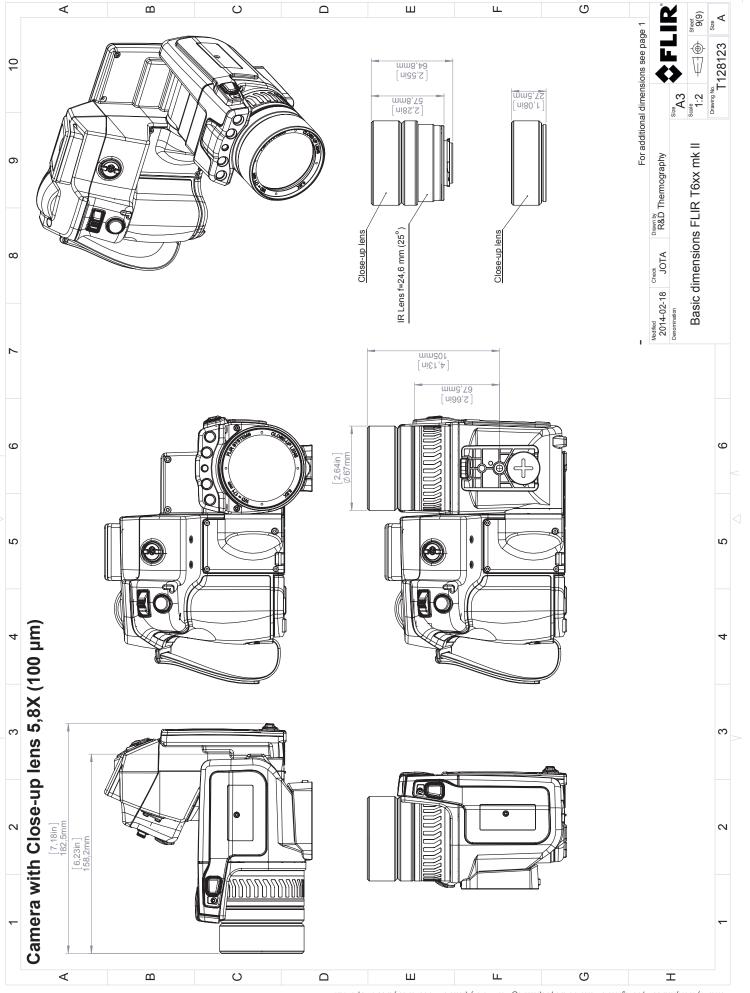
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