

Product Datasheet - Technical Specifications



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FLIR C3-X (incl. Wi-Fi)

P/N: 90501-0201

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Imaging and optical data	
IR resolution	128 × 96 pixels
Thermal sensitivity/NETD	< 70 mK
Field of view (FOV)	54° × 42°
Minimum focus distance	<ul style="list-style-type: none">Thermal: 0.1 m (0.32 ft)MSX: 0.3 m (0.98 ft)
Spatial resolution (IFOV)	7.9 mrad/pixel
F-number	1.1
Image frequency	8.7 Hz
Focus	Focus free
Digital zoom	No
Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	8–14 μm
Detector pitch	12 μm
Image presentation	
Display resolution	640 × 480 pixels
Screen size	3.5 in
Aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Display technology	IPS
Image adjustment	<ul style="list-style-type: none">Automatic level and spanManual level and span
Image modes	<ul style="list-style-type: none">Infrared imageVisual imageMSXPicture in picture (IR area on visual image)
Gallery	Yes, incl. thumbnails and custom folder structure



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Measurement	
Object temperature range	-20 to 300°C (-4 to 572°F)
Accuracy at ambient temp. 10 to 35°C (50 to 95°F) and object temp. above 0°C (32°F)	<ul style="list-style-type: none"> 0 to 100°C (32 to 212°F): ±3°C (±5.5°F) 100 to 300°C (212 to 572°F): ±3%
Measurement analysis	
Measurement functions	<ul style="list-style-type: none"> Spot Box with max./min.
Measurements correction	<ul style="list-style-type: none"> Emissivity; matt/semi-matt/semi-glossy + custom value Reflected apparent temperature <ul style="list-style-type: none"> Atmospheric compensation
Color palettes	<ul style="list-style-type: none"> Iron Gray Rainbow Rainbow HC
Set-up	
Set-up commands	<ul style="list-style-type: none"> Local adaptation of units, language, date and time formats Screen brightness (high, medium, low)
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Spanish, Swedish, traditional Chinese, Turkish
Service functions	
Camera software update	<ul style="list-style-type: none"> Automatic over Wi-Fi USB via computer
Storage of images	
Storage media	Built-in
Image storage capacity	> 5000 sets of images
Image file format	Standard JPEG, 14-bit measurement data included
Image annotations	
Text	Soft keyboard on touchscreen
Video streaming	
Non-radiometric video streaming	No
Digital camera	
Resolution	5 MP
Focus	Fixed
Field of view	71.5° × 56° (84° diagonal)
Video lamp	Yes
Data communication interfaces	
Wi-Fi	802.11 a/ac/b/g/n (2.4 and 5 GHz) (5 GHz only for indoor use in Japan and Canada)
USB	USB 2.0, Type-C connector
Bluetooth	PAN



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Radio	
Wi-Fi	<ul style="list-style-type: none">• Standard: 802.11 a/b/g/n (HT20)• Frequency range:<ul style="list-style-type: none">◦ 2401–2473 MHz◦ 5150–5250 MHz• Max. output power: 15 dBm
Bluetooth + EDR	<ul style="list-style-type: none">• Frequency range:<ul style="list-style-type: none">◦ 2400–2484 MHz• Max. output power: 10 dBm
Power system	
Battery type	Rechargeable Li ion battery (built-in)
Battery voltage	3.7 V
Battery capacity	1800 mAh
Battery operating time	4 hours
Battery charge life	>500 cycles
Charging system	USB-C (1 A)
Charging time	2 hours
Charging temperature	35°C (95°F)
External power operation	5 V, USB-C
Power management	Adjustable stand-by and automatic shut-down
Environmental data	
Operating temperature range	–10 to 50°C (14 to 122°F)
Storage temperature range	–40 to 70°C (–40 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
Relative humidity	95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing
EMC	<ul style="list-style-type: none">• EN 301 487-1• EN 301 489-17• FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8 level 5
Radio spectrum	<ul style="list-style-type: none">• ETSI EN 300 328• EN 301 489• FCC Title 47 CFR Part 15• RSS-247 Issue 2
Battery regulations	<ul style="list-style-type: none">• UL 1642• EN 62133 ed 2
Battery charging efficiency	<ul style="list-style-type: none">• BC Title 20• 10 CFR Section 430.23 (aa)
Encapsulation	Camera housing and lens: IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.56 ft)
Safety	EN 62368-1



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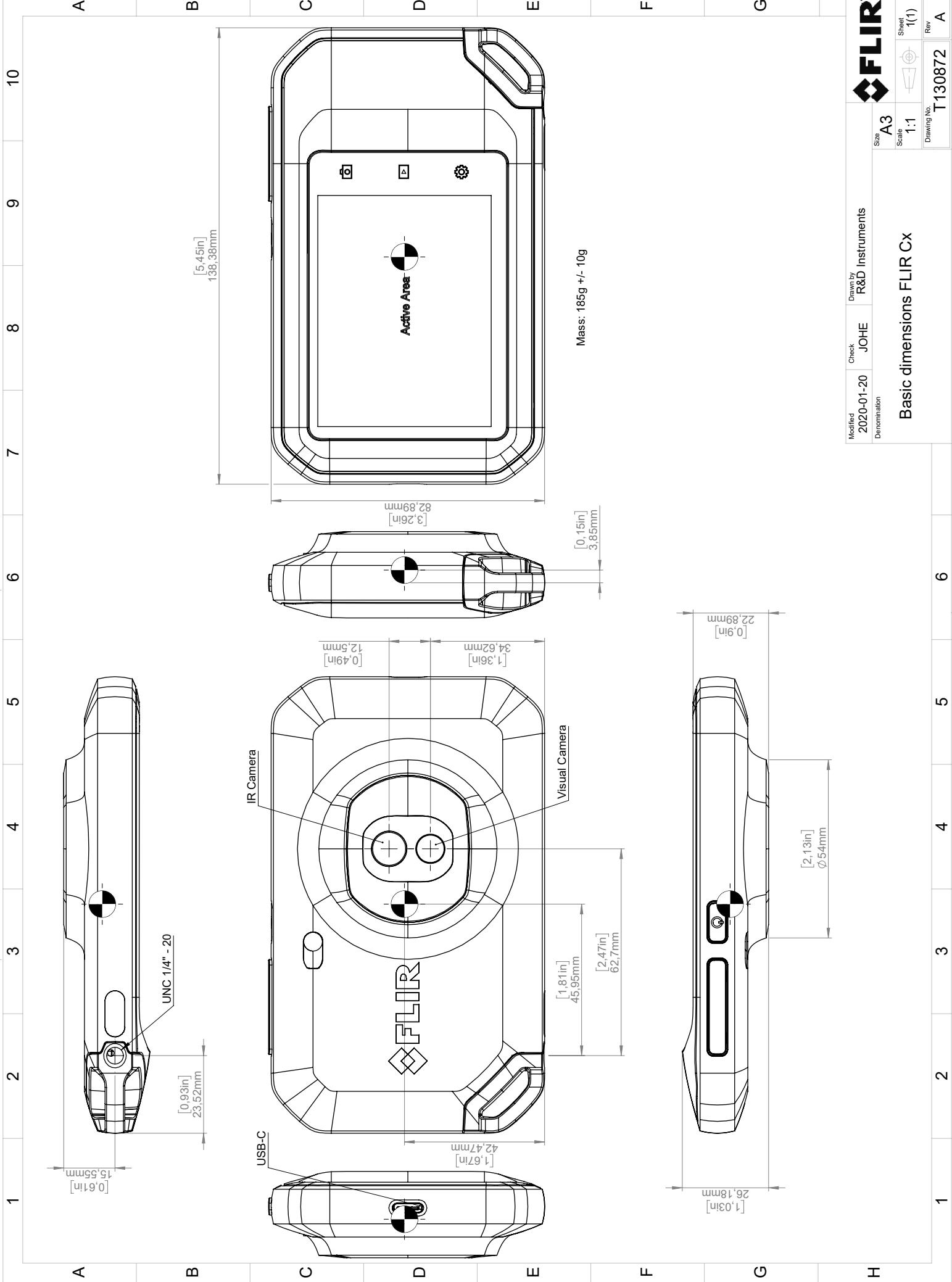
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Environmental data	
Environmental safety	<ul style="list-style-type: none">REACH Regulation EC 1907/2006RoHS2 Directive 2011/65/ECWEEE Directive 2012/19/ECProposition 65
Declaration of conformity	See: https://support.flir.com/resources/DoC
Physical data	
Weight (including battery)	0.19 kg (0.42 lb)
Size (L × W × H)	138 × 84 × 24 mm (5.4 × 3.3 × 0.94 in)
Battery weight	40 g (1.4 oz)
Tripod mounting	UNC ¼"-20
Housing material	<ul style="list-style-type: none">PC and ABS, partially covered with TPEAluminum
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none">C3-XPrinted documentationFLIR Thermal Studio StarterWrist strap lanyardUSB cablePouch
Packaging, weight	0.52 kg (1.14 lb)
Packaging, size	160 × 118 × 93 mm (6.3 × 4.6 × 3.7 in)
EAN-13	4743254004764
UPC-12	845188022945
Country of origin	Estonia

Supplies & accessories:

- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license



Modified	Check	Drawn by	FLIR
2020-01-20	JOHE	R&D Instruments	
Denomination			Size
Basic dimensions FLIR Cx			A3
			Scale
			1:1
			Sheet
			1(1)
			Rev
			T130872
			A