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FLIR PREMIUM PARTNER

FLIR C3-X

P/N: 90501-0101

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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	• 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	• Automatic level and span • Manual level and span
Image modes	• Infrared image • Visual image • MSX • Picture 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)	• 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	• Spot • Box with max./min.
Measurements correction	• Emissivity; matt/semi-matt/semi-glossy + custom value • Reflected apparent temperature ◦ Atmospheric compensation
Color palettes	• Iron • Gray • Rainbow • Rainbow HC

Set-up	
Set-up commands	• 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	• 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	No
USB	USB 2.0, Type-C connector
Bluetooth	No

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Radio	
Wi-Fi	No
Bluetooth + EDR	No

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
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds

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	• 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	No
Battery regulations	• UL 1642 • EN 62133 ed 2
Battery charging efficiency	• 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
Environmental safety	• REACH Regulation EC 1907/2006 • RoHS2 Directive 2011/65/EC • WEEE Directive 2012/19/EC • Proposition 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)

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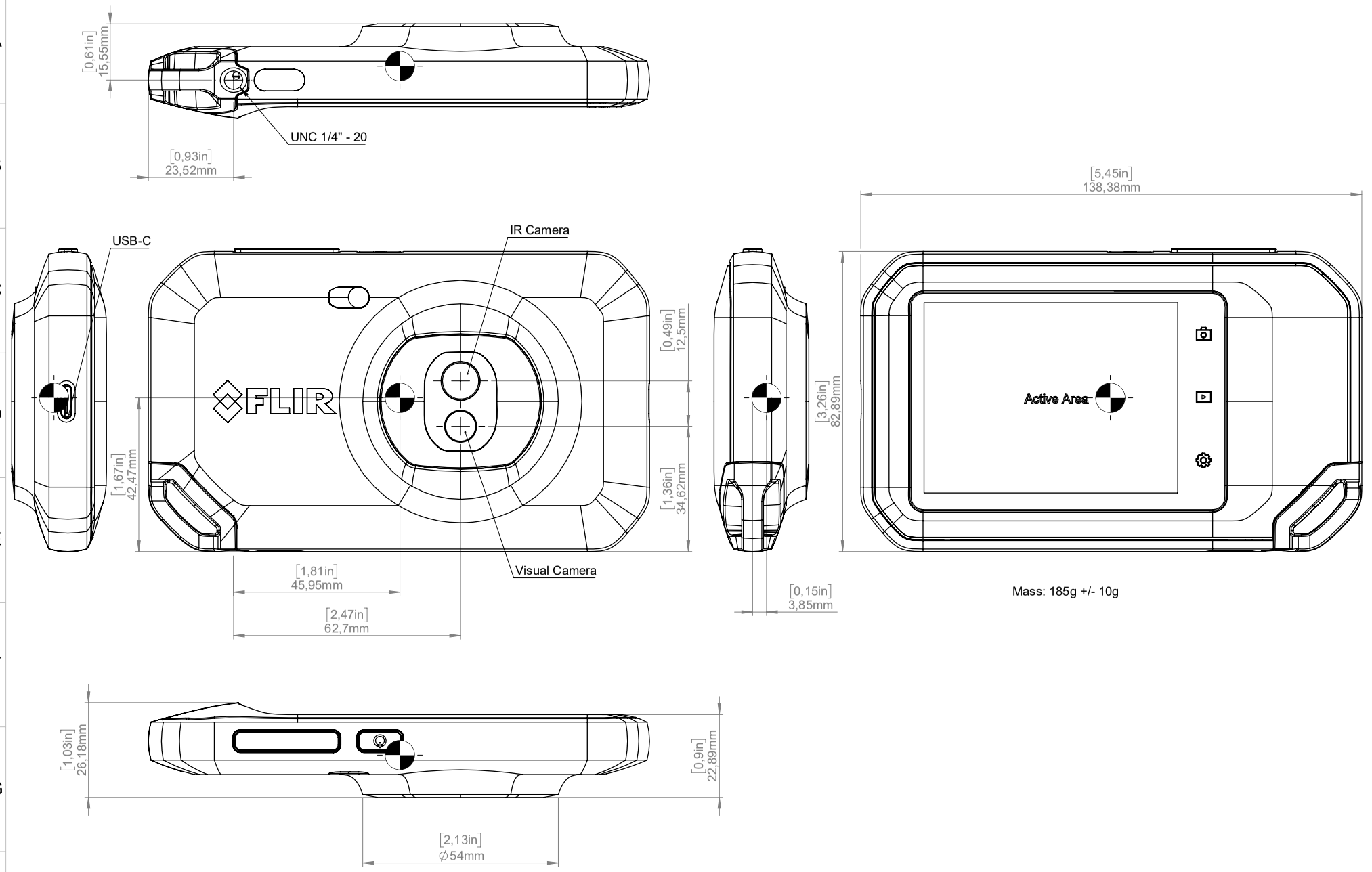
Physical data	
Battery weight	40 g (1.4 oz)
Tripod mounting	UNC ¼″-20
Housing material	• PC and ABS, partially covered with TPE • Aluminum
Color	Black

Warranty and service	
Warranty	http://www.flir.com/warranty/

Shipping information	
Packaging, type	Cardboard box
Packaging, contents	• C3-X • Printed documentation • FLIR Thermal Studio Starter • Wrist strap lanyard • USB cable • Pouch
Packaging, weight	0.52 kg (1.14 lb)
Packaging, size	160 × 118 × 93 mm (6.3 × 4.6 × 3.7 in)
EAN-13	4743254004757
UPC-12	845188022938
Country of origin	Estonia

Supplies & accessories:

- T911940ACC; USB 2.0 A to USB Type-C cable, 1.0 m
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license



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2020-01-20	JOHE	R&D Instruments

Denomination

Basic dimensions FLIR Cx

Size	Sheet
A3	1(1)
Scale	
1:1	
Drawing No.	Rev
T130872	A

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