

## Product Datasheet - Technical Specifications



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# FLIR C5 (incl. Wi-Fi)

**P/N: 89401-0202**

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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](mailto:exportquestions@flir.com) with any questions.



<b>Imaging and optical data</b>	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 70 mK
Field of view (FOV)	54° × 42°
Minimum focus distance	<ul style="list-style-type: none"><li>Thermal: 0.1 m (0.32 ft)</li><li>MSX: 0.3 m (0.98 ft)</li></ul>
Spatial resolution (IFOV)	6.3 mrad/pixel
F-number	1.1
Image frequency	8.7 Hz
Focus	Focus free
Digital zoom	Yes, zoom pinch, 1–4× continuous
<b>Detector data</b>	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	8–14 μm
Detector pitch	12 μm
<b>Image presentation</b>	
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"><li>Automatic level and span</li><li>Manual level and span</li><li>1-Touch level and span</li></ul>
Image modes	<ul style="list-style-type: none"><li>Infrared image</li><li>Visual image</li><li>MSX</li><li>Picture in picture (IR area on visual image)</li></ul>
Gallery	Yes, incl. thumbnails and custom folder structure



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<b>Measurement</b>	
Object temperature range	-20 to 400°C (-4 to 752°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"> <li>0 to 100°C (32 to 212°F): ±3°C (±5.5°F)</li> <li>100 to 400°C (212 to 752°F): ±3%</li> </ul>
<b>Measurement analysis</b>	
Measurement functions	<ul style="list-style-type: none"> <li>Spot</li> <li>Box with max./min.</li> </ul>
Measurements correction	<ul style="list-style-type: none"> <li>Emissivity; matt/semi-matt/semi-glossy + custom value</li> <li>Reflected apparent temperature               <ul style="list-style-type: none"> <li>Atmospheric compensation</li> </ul> </li> </ul>
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>
<b>Set-up</b>	
Set-up commands	<ul style="list-style-type: none"> <li>Local adaptation of units, language, date and time formats</li> <li>Screen brightness (high, medium, low)</li> </ul>
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
<b>Service functions</b>	
Camera software update	<ul style="list-style-type: none"> <li>Automatic over Wi-Fi</li> <li>USB via computer</li> </ul>
<b>Storage of images</b>	
Storage media	Built-in
Image storage capacity	> 5000 sets of images
Image file format	Standard JPEG, 14-bit measurement data included
<b>Image annotations</b>	
Text	Soft keyboard on touchscreen, auto-prompt for note when image is saved
<b>Video streaming</b>	
Non-radiometric video streaming	Yes; MSX, Thermal, Visual, Picture in Picture. USB Video Class colorized uncompressed with overlay 9 Hz.
<b>Digital camera</b>	
Resolution	5 MP
Focus	Fixed
Field of view	71.5° × 56° (84° diagonal)
Video lamp	Yes



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<b>Data communication interfaces</b>	
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
<b>Radio</b>	
Wi-Fi	<ul style="list-style-type: none"><li>Standard: 802.11 a/b/g/n (HT20)</li><li>Frequency range:<ul style="list-style-type: none"><li>2401–2473 MHz</li><li>5150–5250 MHz</li></ul></li><li>Max. output power: 15 dBm</li></ul>
Bluetooth + EDR	<ul style="list-style-type: none"><li>Frequency range:<ul style="list-style-type: none"><li>2400–2484 MHz</li></ul></li><li>Max. output power: 10 dBm</li></ul>
<b>Power system</b>	
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
<b>Environmental data</b>	
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"><li>EN 301 487-1</li><li>EN 301 489-17</li><li>FCC 47 CFR Part 15 Class B</li></ul>
Magnetic fields	EN 61000-4-8 level 5
Radio spectrum	<ul style="list-style-type: none"><li>ETSI EN 300 328</li><li>EN 301 489</li><li>FCC Title 47 CFR Part 15</li><li>RSS-247 Issue 2</li></ul>
Battery regulations	<ul style="list-style-type: none"><li>UL 1642</li><li>EN 62133 ed 2</li></ul>
Battery charging efficiency	<ul style="list-style-type: none"><li>BC Title 20</li><li>10 CFR Section 430.23 (aa)</li></ul>
Encapsulation	Camera housing and lens: IP 54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)



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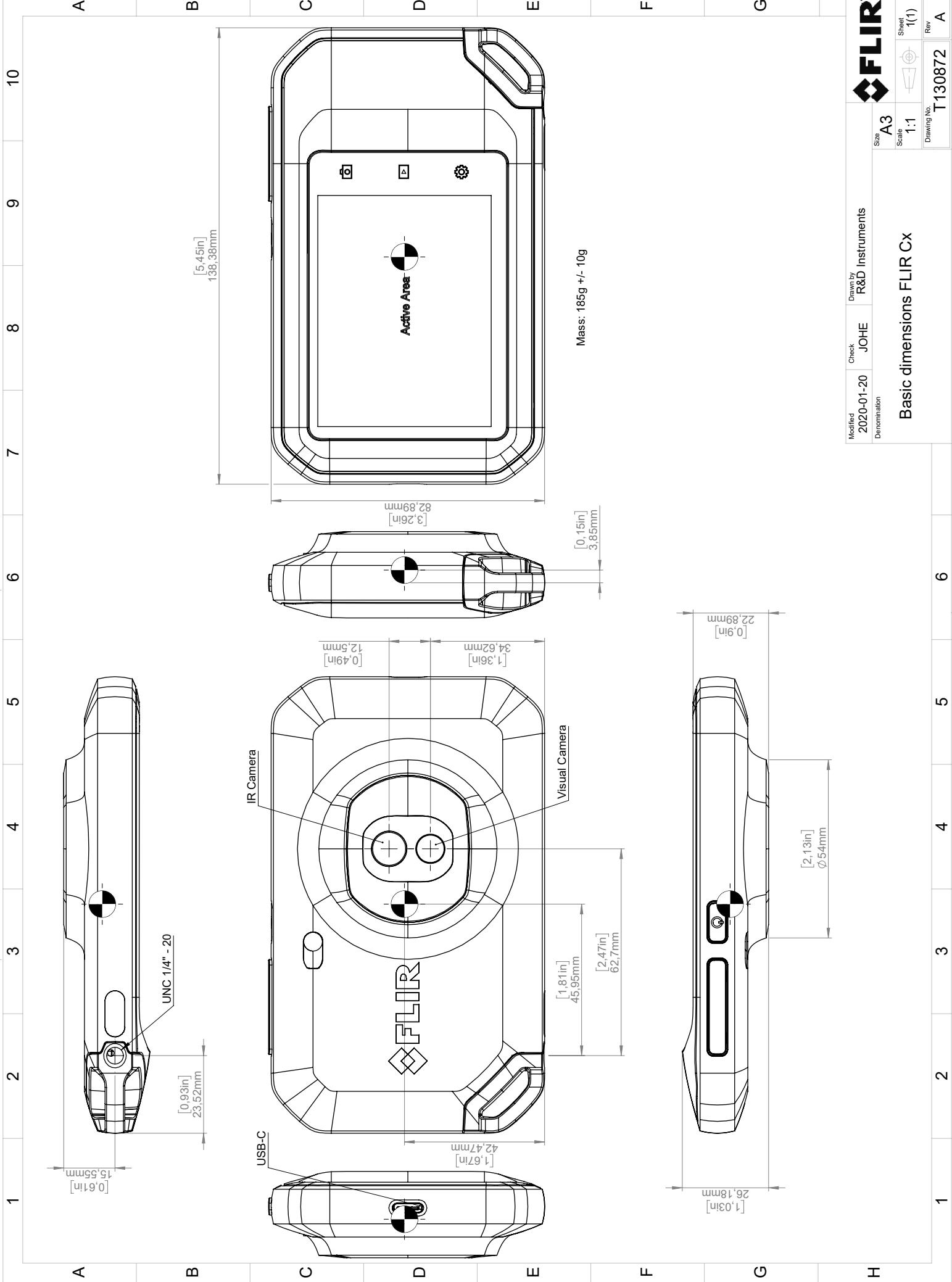
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<b>Environmental data</b>	
Vibration	2 g (IEC 60068-2-6)
Drop	Designed for 2 m (6.56 ft)
Safety	EN 62368-1
Environmental safety	<ul style="list-style-type: none"><li>• REACH Regulation EC 1907/2006</li><li>• RoHS2 Directive 2011/65/EC</li><li>• WEEE Directive 2012/19/EC</li><li>• Proposition 65</li></ul>
Declaration of conformity	See: <a href="https://support.flir.com/resources/DoC">https://support.flir.com/resources/DoC</a>
<b>Physical data</b>	
Weight (including battery)	0.19 kg (0.42 lb)
Size (L x W x H)	138 x 84 x 24 mm (5.4 x 3.3 x 0.94 in)
Battery weight	40 g (1.4 oz)
Tripod mounting	UNC 1/4"-20
Housing material	<ul style="list-style-type: none"><li>• PC and ABS, partially covered with TPE</li><li>• Aluminum</li></ul>
Color	Black
<b>Warranty and service</b>	
Warranty	<a href="http://www.flir.com/warranty/">http://www.flir.com/warranty/</a>
<b>Shipping information</b>	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"><li>• C5</li><li>• Printed documentation</li><li>• FLIR Thermal Studio Starter</li><li>• Wrist strap lanyard</li><li>• USB cable</li><li>• Pouch</li></ul>
Packaging, weight	0.52 kg (1.14 lb)
Packaging, size	160 x 118 x 93 mm (6.3 x 4.6 x 3.7 in)
EAN-13	4743254004467
UPC-12	845188021832
Country of origin	Estonia

### Supplies & accessories:

- T199871; Traceable Calibration for C5
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- INST-EW-0120; Extended Warranty 1 Year for C5

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