

## Product Datasheet - Technical Specifications



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# FLIR ONE PRO, iOS

**P/N: 435-0006-03**

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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.



Key features	
VividIR Image Processing	
<ul style="list-style-type: none"><li>The most advanced image resolution enhancement detects the thermal details you need to find the problems fast.</li><li>FLIR MSX embosses visible edges from the 1440 × 1080 HD camera onto the thermal imagery to create a sharper, easier to understand image.</li></ul>	
OneFit Connector	
<ul style="list-style-type: none"><li>Adjust the length of the connector up to an additional 4 mm to fit your phone's protective case.</li></ul>	
Imaging and optical data	
NETD	70 mK
Field of view	55° × 43°
Minimum focus distance	<ul style="list-style-type: none"><li>Thermal: 0.15 m (0.49 ft.)</li><li>MSX: 0.3 m (0.98 ft.)</li></ul>
Spatial resolution (IFOV)	6.5 mrad/pixel
F-number	1.1
Image frequency	8.7 Hz
Focus	Focus free
Detector data	
Focal Plane Array	Uncooled microbolometer
Spectral range	8–14 μm
Detector pitch	12 μm
IR sensor size	160 × 120
Measurement	
Object temperature range	–20°C to +400°C (–4°F to +752°F)
Accuracy	±3°C (±5.4°F) or 5%, typical percent of the difference between ambient and scene temperature. Applicable 60 s after start-up when the unit is within +15 °C to +35°C (+59°F to +95° F) and the scene is within +5°C to +120°C (+41°F to +248°F)



# FLIR ONE PRO, iOS

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<b>Set-up</b>	
Set-up commands	Local adaptation of units, language, date, and time formats
Languages	Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.  Dependent on the language set in the mobile phone.
<b>Storage of images</b>	
Storage of images	Yes, in the app gallery and in the gallery of the mobile phone (optional).
Image file format	<ul style="list-style-type: none"><li>Standard JPEG</li><li>16-bit measurement data included</li></ul>
Video file format	MPEG-4 (MOV)
<b>Digital camera</b>	
Digital camera	1440 × 1080 pixels
Digital camera, focus	Fixed focus 15 cm – infinity
<b>Data communication interfaces</b>	
USB, connector type	Male Lightning
USB, standard	USB 2.0
MFi	Yes
<b>Power system</b>	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	1 h
Charging system	Female USB-C (5V / 1A)
Charging time	40 min.
Power management	Automatic shut-down
<b>Environmental data</b>	
Operating temperature range	0°C to +35°C (+32°F to +95°F) Battery charging 0°C to +30°C (+32°F to +86°F)
Storage temperature range	-20°C to +60°C (-4°F to +140°F)
Drop	1.8 m (5.9 ft)
<b>Compliance</b>	
Battery regulations	UL 1642, EN 62133 ED2
EMC	<ul style="list-style-type: none"><li>EN 61000-6-3</li><li>EN 61000-6-1</li><li>FCC 47 CFR Part 15 Class B</li></ul>
Magnetic fields	EN 61000-4-8
RoHS	RoHS 2011/65/EC
WEEE	WEEE 2012/19/EC
<b>App</b>	
Auto orientation	Yes
Image adjustment (alignment calibration)	Yes



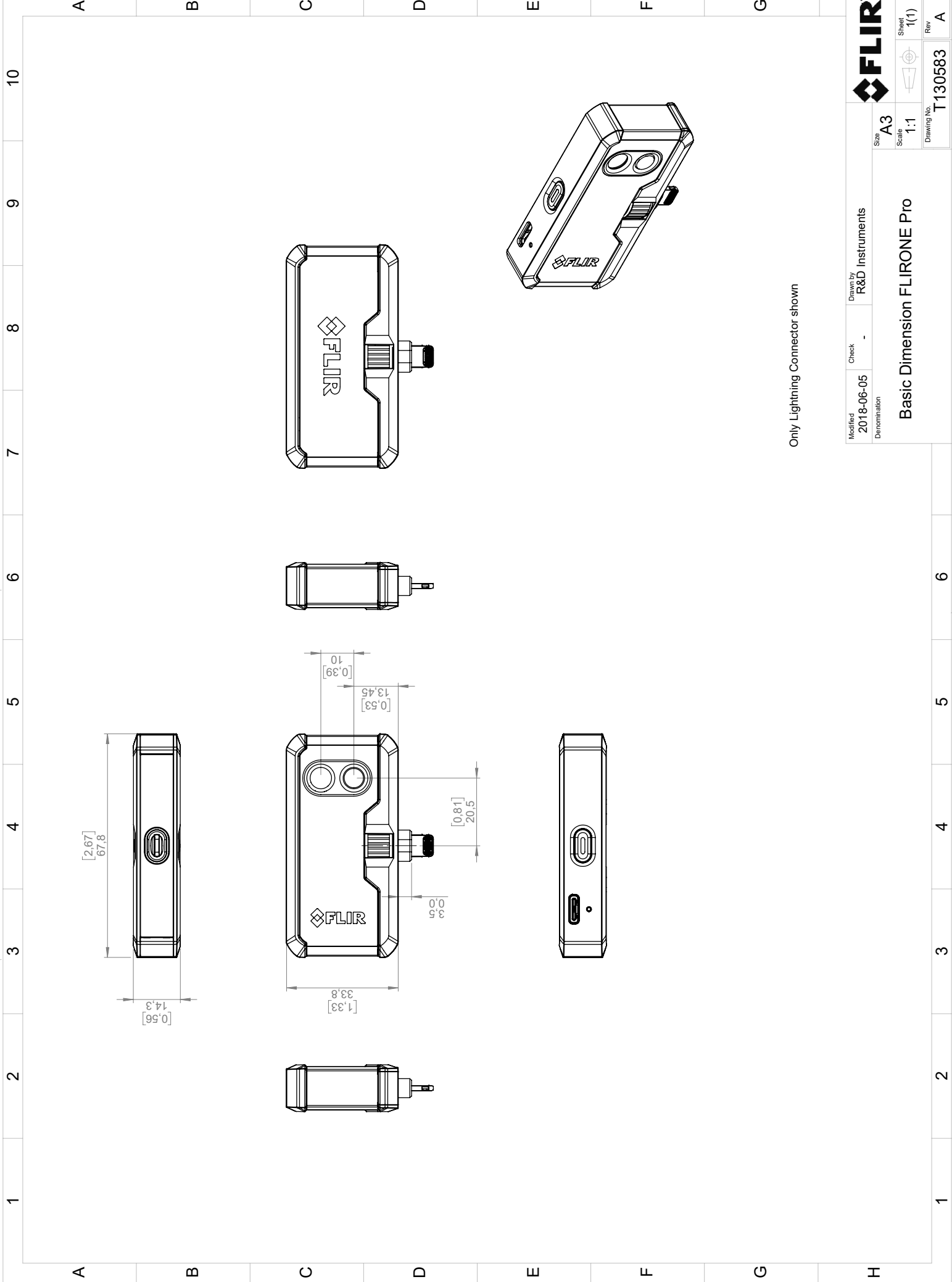
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<b>App</b>	
VividIR	Yes
Capture modes	<ul style="list-style-type: none"><li>• Video</li><li>• Photo</li></ul>
Image presentation modes	<ul style="list-style-type: none"><li>• Infrared image</li><li>• Visual image</li><li>• MSX</li></ul>
Measurement analysis	Three movable measurement spots, automatic tracking of hottest and coldest spot (ON/OFF). Resolution 0.1°C / 0.1°F
Emissivity correction	Yes; <ul style="list-style-type: none"><li>• matte</li><li>• semi-matte</li><li>• semi-glossy</li><li>• glossy</li></ul>
Measurements correction	<ul style="list-style-type: none"><li>• Emissivity</li><li>• Reflected apparent temperature +22°C (+72° F)</li></ul>
Color palettes	<ul style="list-style-type: none"><li>• Iron</li><li>• Rainbow</li><li>• Contrast</li><li>• Gray</li><li>• Arctic</li><li>• Lava</li><li>• Color Wheel</li><li>• Hottest</li><li>• Coldest</li></ul>
Camera software update	Yes
Battery indicator	0-100%
<b>Physical data</b>	
Weight (incl. Battery)	36.5 g (1.3 oz)
Size (L × W × H)	68 × 34 × 14 mm (2.7 × 1.3 × 0.6 in.)
Housing material	<ul style="list-style-type: none"><li>• PC and ABS, partially covered with TPE</li><li>• Aluminum</li></ul>
Color	Black and gray
<b>Shipping information</b>	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none"><li>• Infrared camera</li><li>• USB cable</li><li>• Printed documentation</li><li>• Pouch</li></ul>
Packaging, weight	0.31 kg (0.68 lb.)
Packaging, size	141 × 102 × 67 mm (5.6 × 4.0 × 2.6 in.)
EAN-13	
UPC-12	812462024094
Country of origin	Estonia



Only Lightning Connector shown

Modified 2018-06-05	Check -	Drawn by R&D Instruments	FLIR
Denomination Basic Dimension FLIRONE Pro		Size A3	Sheet 1(1)
		Scale 1:1	Rev A
		Drawing No. T130583	