FLIR ONE PRO, Android USB-C

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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.

Key features
VividIR Image Processing
• The most advanced image resolution enhancement detects the thermal details you need to find the problems fast. • FLIR MSX embosses visible edges from the 1440 × 1080 HD camera onto the thermal imagery to create a sharper, easier to understand image.
OneFit Connector
• Adjust the length of the connector up to an additional 4 mm to fit your phone's protective case.

Imaging and optical data	
NETD	70 mK
Field of view	55° × 43°
Minimum focus distance	• Thermal: 0.15 m (0.49 ft.) • MSX: 0.3 m (0.98 ft.)
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)

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Set-up	
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.

Storage of images	
Storage of images	Yes, in the app gallery and in the gallery of the mobile phone (optional).
Image file format	• Standard JPEG • 16-bit measurement data included
Video file format	MPEG-4 (MP4)

Digital camera	
Digital camera	1440 × 1080 pixels
Digital camera, focus	Fixed focus 15 cm – infinity

Data communication interfaces	
USB, connector type	Male USB-C
USB, standard	USB 2.0

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

Environmental data	
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)

Compliance	
Battery regulations	UL 1642, EN 62133 ED2
EMC	• EN 61000-6-3 • EN 61000-6-1 • FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
RoHS	RoHs 2011/65/EC
WEEE	WEEE 2012/19/EC
Declaration of conformity	See: https://support.flir.com/resources/DoC

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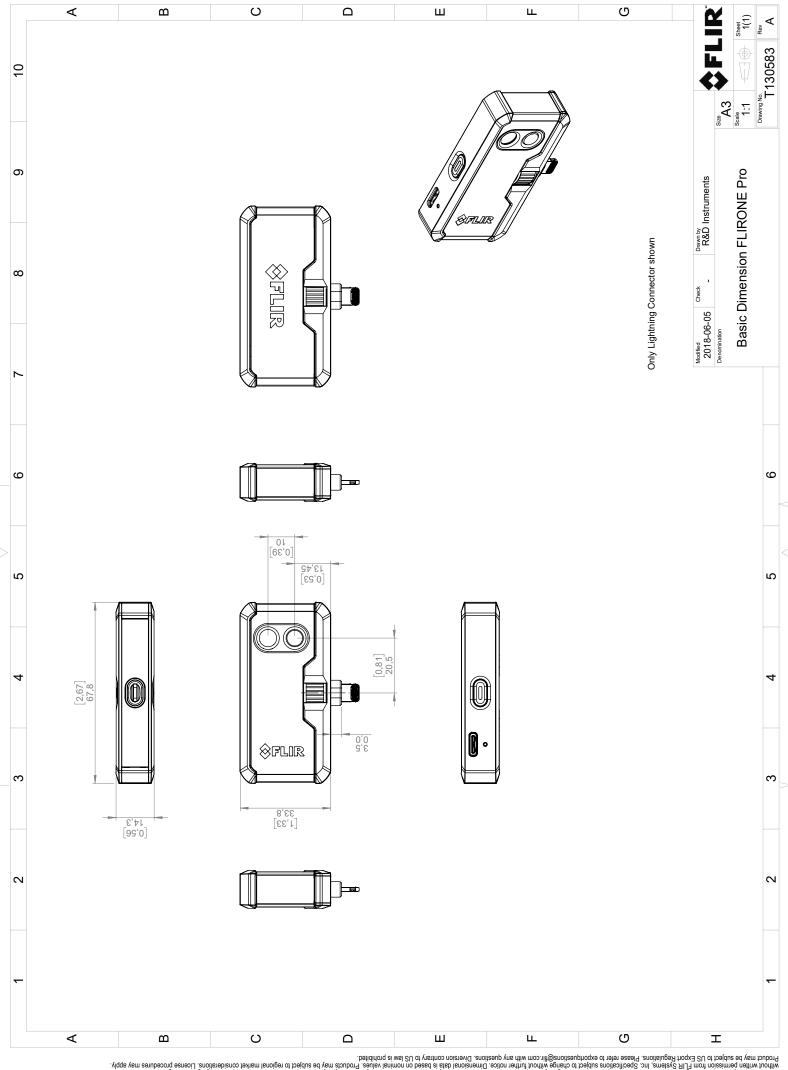
App	
Auto orientation	Yes
Image adjustment (alignment calibration)	Yes
VividIR	Yes
Capture modes	• Video • Photo
Image presentation modes	• Infrared image • Visual image • MSX
Measurement analysis	Three movable measurement spots, automatic tracking of hottest and coldest spot (ON/OFF). Resolution 0.1°C / 0.1°F
Emissivity correction	Yes; • matte • semi-matte • semi-glossy • glossy
Measurements correction	• Emissivity • Reflected apparent temperature +22°C (+72°F)
Color palettes	• Iron • Rainbow • Contrast • Gray • Arctic • Lava • Color Wheel • Hottest • Coldest
Camera software update	Yes
Battery indicator	0-100%

Physical data	
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	• PC and ABS, partially covered with TPE • Aluminum
Color	Black and gray

Shipping information	
Packaging, type	Cardboard box
List of contents	• Infrared camera • USB cable • Printed documentation • Pouch
Packaging, weight	0.31 kg (0.68 lb.)
Packaging, size	141 × 102 × 67 mm (5.6 × 4.0 × 2.6 in.)
EAN-13	4743254005822
UPC-12	845188025502
Country of origin	Estonia

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A B C D E F G

10

9

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7

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5

Only Lightning Connector shown

10
[0.39]

13,45
[0.53]

[0.81]
20,5

0,0
3,5

[2.67]
67,8

14,3
[0.56]

33,8
[1.33]