FLIR ONE PRO LT USB-C

P/N: 435-0013-03

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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 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	100 mK
Field of view	50° × 38°
Minimum focus distance	• Thermal: 0.15 m (0.49 ft.) • MSX: 0.3 m (0.98 ft.)
Spatial resolution (IFOV)	11.6 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	17 µm
IR sensor size	80 × 60

Measurement	
Object temperature range	–20°C to +120°C (–4°F to +248°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.

Lamp	
Lamp	Uses the flashlight of the mobile phone.

Storage of images	
Storage of images	Yes, in the gallery of the mobile phone.
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

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

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Compliance	
RoHS	RoHs 2011/65/EC
WEEE	WEEE 2012/19/EC

App	
Auto orientation	Yes
Image adjustment (alignment calibration)	Yes
VividIR	Yes
Capture modes	• Video • Photo • Time lapse
Image presentation modes	• Infrared image • Visual image • MSX • Gallery
Measurement analysis	Adjustable spots and areas of interest; • 3 spots • 3 rectangular areas (max.) • 3 circular areas (max.) 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 • Rainbow HC • Gray • Arctic • Lava • 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

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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	7332558015728
UPC-12	845188017705
Country of origin	Sweden

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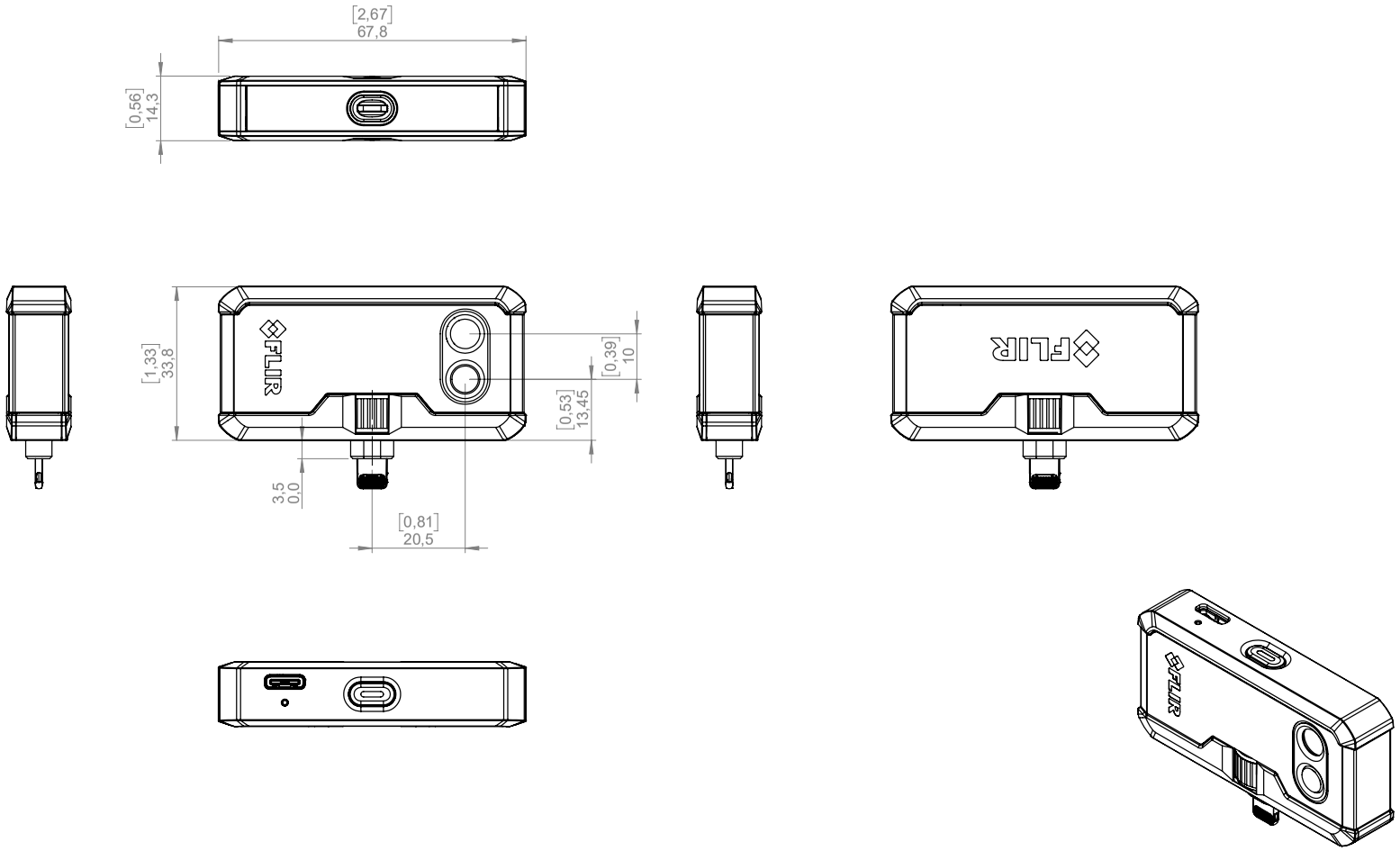

Only Lightning Connector shown

Modified	Check	Drawn by	
2018-06-07	-	R&D Instruments	FLIR

Denomination

Basic Dimension FLIRONE PRO LT

Size	Sheet
A3	1(1)

Scale	Drawing No.	Rev
1:1	T130584	A

March 22, 2018 Täby, Sweden AQ320287

CE Declaration of Conformity – EU Declaration of Conformity

Product: FLIR One -series

Name and address of the manufacturer:
FLIR Systems AB
PO Box 7376
SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.
The object of the declaration: FLIR One -series (FLIR part numbers 435-00xx-xx)
The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives:

Directive:	2011/65/EU	RoHS
Directive	2014/30/EU	Electromagnetic Compability

Standards:

Emission:	EN 61000-3-2:2014	EMC Limits for harmonic current emissions
	EN 61000-3-3:2013	EMC Limitation of voltage changes
	EN 55032:2012	EMC of multimedia equipment - Emission requirements
Immunity:	EN 55024:2010	Information Tech Equipment Immunity characteristics

FLIR Systems AB
Quality Assurance

Lea Dabiri
Quality Manager