

**P/N: 435-0011-03**

**Copyright**

© 2019, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

**Document identity**

Publ. No.: 435-0011-03

Commit: 56439

Language:

Modified: 2019-04-01

Formatted: 2019-04-01

**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)

P/N: 435-0011-03

© 2019, FLIR Systems, Inc.

#435-0011-03; r. 56439;

<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>Lamp</b>	
Lamp	Uses the flashlight of the mobile phone.
<b>Storage of images</b>	
Storage of images	Yes, in the gallery of the mobile phone.
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 (MP4)
<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	Micro USB
USB, standard	USB 2.0
<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

P/N: 435-0011-03

© 2019, FLIR Systems, Inc.

#435-0011-03; r. 56439;

<b>Compliance</b>	
RoHS	RoHS 2011/65/EC
WEEE	WEEE 2012/19/EC
<b>App</b>	
Auto orientation	Yes
Image adjustment (alignment calibration)	Yes
VividIR	Yes
Capture modes	<ul style="list-style-type: none"> <li>• Video</li> <li>• Photo</li> <li>• Time lapse</li> </ul>
Image presentation modes	<ul style="list-style-type: none"> <li>• Infrared image</li> <li>• Visual image</li> <li>• MSX</li> <li>• Gallery</li> </ul>
Measurement analysis	Adjustable spots and areas of interest; <ul style="list-style-type: none"> <li>• 3 spots</li> <li>• 3 rectangular areas (max.)</li> <li>• 3 circular areas (max.)</li> </ul> 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>• Rainbow HC</li> <li>• Gray</li> <li>• Arctic</li> <li>• Lava</li> <li>• 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



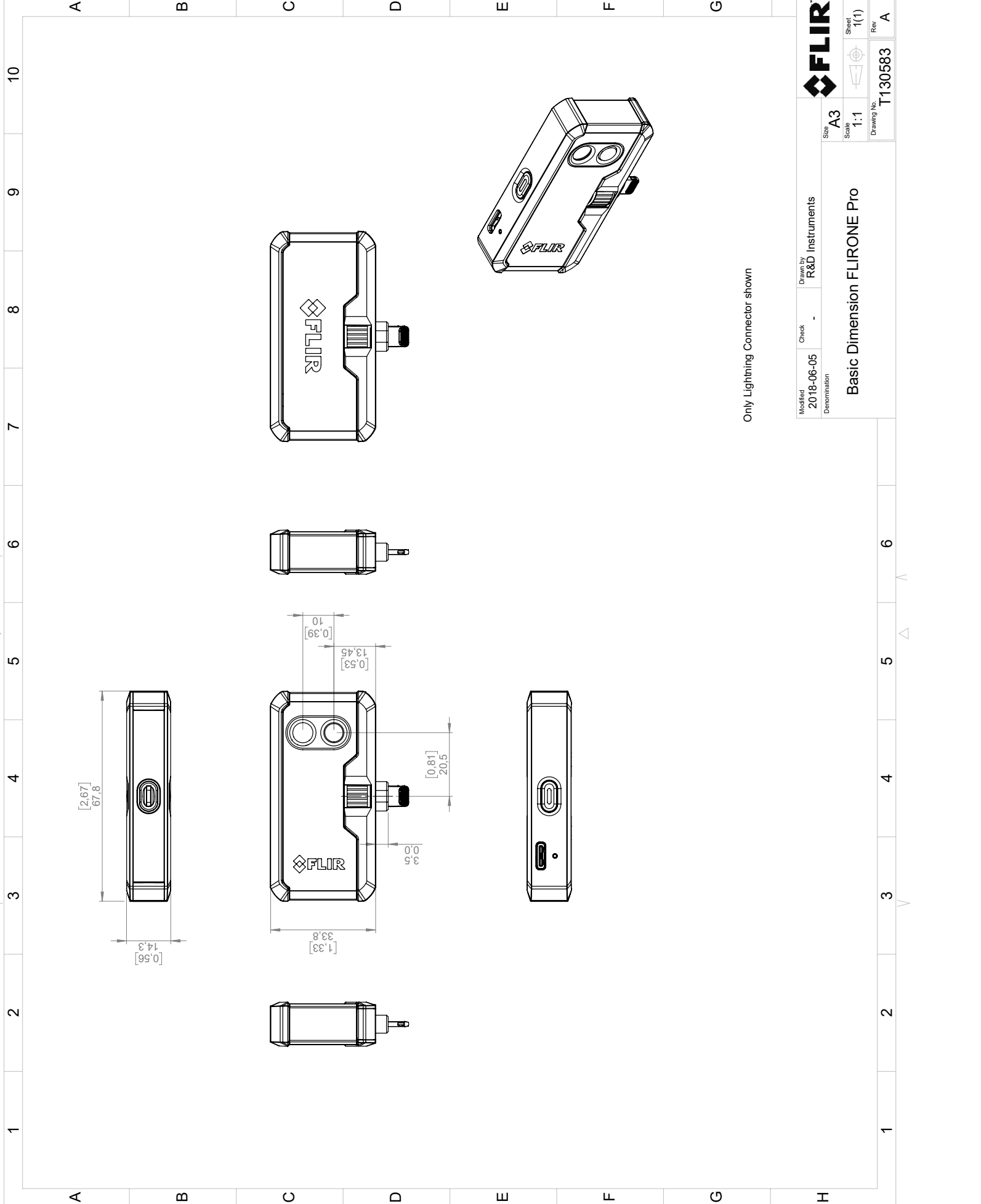
## FLIR ONE PRO Micro-USB

P/N: 435-0011-03

© 2019, FLIR Systems, Inc.

#435-0011-03; r. 56439;

Shipping information	
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	7332558016497
UPC-12	812462024407
Country of origin	China



Only Lightning Connector shown

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





The World's Sixth Sense™

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

