

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 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> Standard JPEG 16-bit measurement data included |
| Video file format | MPEG-4 (MOV) |
| Digital camera | |
| Digital camera | 1440 × 1080 pixels |
| Digital camera, focus | Fixed focus 15 cm – infinity |
| Data communication interfaces | |
| USB, connector type | Male Lightning |
| USB, standard | USB 2.0 |
| MFi | Yes |
| 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 | <ul style="list-style-type: none"> 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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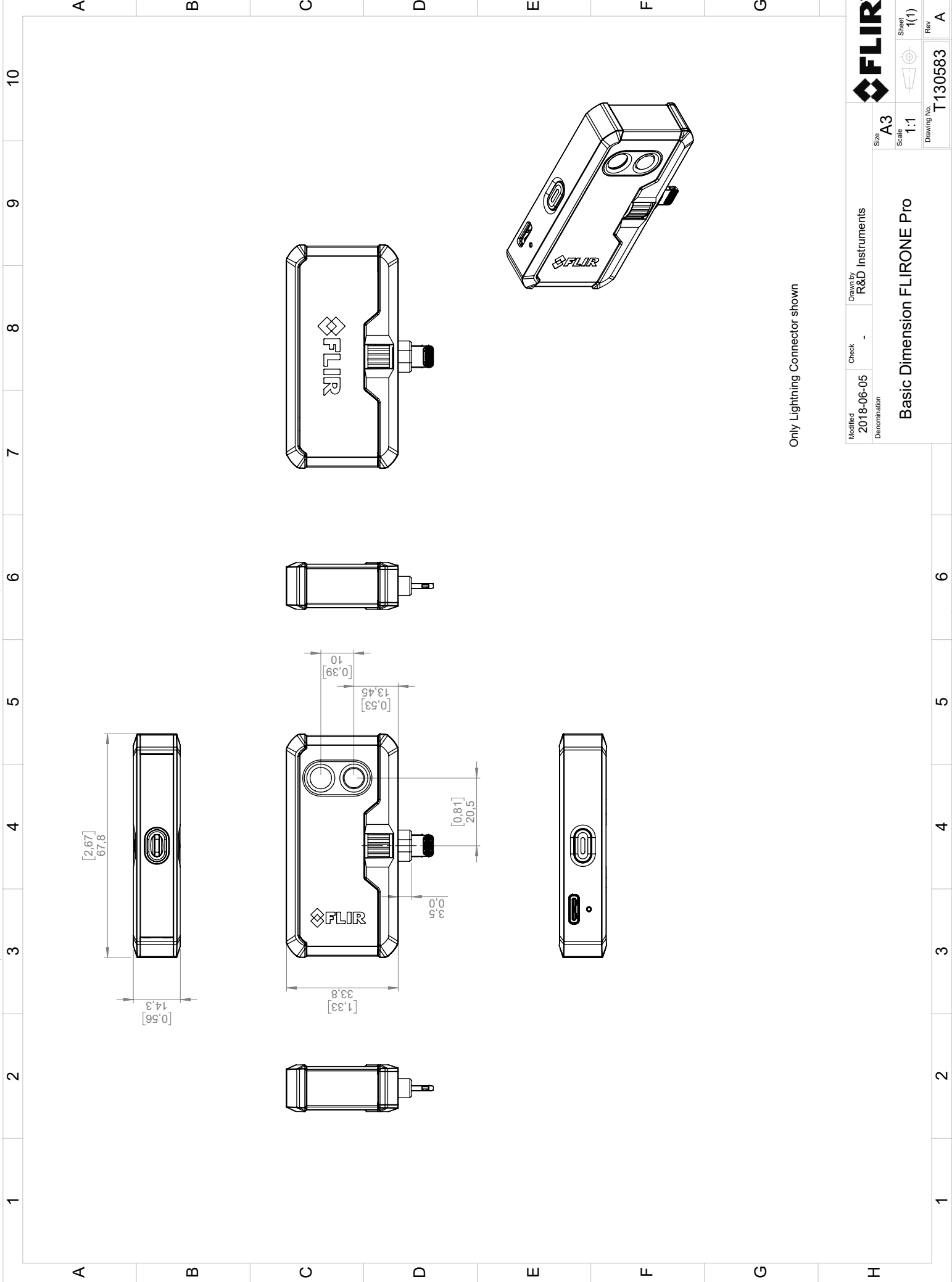
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| App | |
|--|--|
| Auto orientation | Yes |
| Image adjustment (alignment calibration) | Yes |
| VividIR | Yes |
| Capture modes | <ul style="list-style-type: none"> • Video • Photo |
| Image presentation modes | <ul style="list-style-type: none"> • 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; <ul style="list-style-type: none"> • matte • semi-matte • semi-glossy • glossy |
| Measurements correction | <ul style="list-style-type: none"> • Emissivity • Reflected apparent temperature +22°C (+72° F) |
| Color palettes | <ul style="list-style-type: none"> • 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 x W x H) | 68 x 34 x 14 mm (2.7 x 1.3 x 0.6 in.) |
| Housing material | <ul style="list-style-type: none"> • PC and ABS, partially covered with TPE • Aluminum |
| Color | Black and gray |

| Shipping information | |
|-----------------------------|--|
| Packaging, type | Cardboard box |
| List of contents | <ul style="list-style-type: none"> • Infrared camera • USB cable • Printed documentation • Pouch |
| Packaging, weight | 0.31 kg (0.68 lb.) |
| Packaging, size | 141 x 102 x 67 mm (5.6 x 4.0 x 2.6 in.) |
| EAN-13 | 4743254005815 |
| UPC-12 | 845188025496 |
| Country of origin | Estonia |



Only Lightning Connector shown

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