



Key Features

- Superior thermal imaging quality with the 320 × 240 (76,800 pixels) true thermal imager for faster and more accurate analysis to find faults and anomalies
- Flir-patented MSX® enhancement, which embosses visible details onto thermal images for faster problem identification
- Isotherm instantly detects if temperature of equipment is exceeding a set threshold

Main Applications

- Electrical and mechanical maintenance
- HVAC, building diagnostics and restoration
- Electric vehicle inspections

Specifications

| Imaging and optical data | |
|------------------------------|--|
| IR resolution | 320 × 240 pixels |
| Thermal sensitivity/ NETD | <50 mK |
| Field of view (FOV) | 35° × 27° |
| Minimum focus distance | 0.4 m (1.3 ft) |
| Spatial resolution (IFOV) | 2.0 mrad/pixel |
| F-number | 1.4 |
| Image frequency | 9 Hz |
| Focus | Focus free |
| Digital zoom | Yes, zoom pinch, 1 to 4× continuous |
| Detector data | |
| Detector type | Focal plane array, uncooled microbolometer |
| Spectral range | 7.5–13 μm |
| Detector pitch | 12 μm |
| Image presentation | |
| Display resolution | 640 × 480 pixels |
| Screen size | 3.5 in |
| Aspect ratio | 4:3 |
| Auto orientation | Yes |
| Touch screen | Yes, capacitive |
| Display technology | IPS |

| Image adjustment | Automatic level and span / Manual level and span / 1-Touch level and span |
|---------------------------------|---|
| Image modes | Infrared image / Visual image / MSX / Picture-in-picture (IR area on visual image) |
| Gallery | Yes, incl. thumbnails and custom folder structure |
| Measurement | |
| Object temperature range | -20°C to 450°C (-4°F to 842°F) |
| Accuracy at ambient temperature | <ul style="list-style-type: none"> • 0°C to 100°C (32°F to 212°F): ±2°C (±5.5°F) • 100°C to 450°C (212°F to 842°F): ±2% |
| Measurement analysis | |
| Measurement functions | Spot / Box with max. and min. / Isotherm |
| Measurements correction | Emissivity; matt/semi-matt/semi-glossy + custom value / Reflected apparent temperature / Atmospheric compensation |
| Color palettes | Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC |
| Service functions | |
| Camera software update | Automatic over Wi-Fi / USB via computer |
| Storage of images | |
| Storage media | Internal memory and onboard Flir Ignite™ cloud connectivity with Wi-Fi |
| Image storage capacity | >5000 sets of images |
| Image file format | Standard JPEG, 14-bit measurement data included |



Flir C8™

Compact Thermal Camera

Specifications, cont.

| Image annotations | |
|----------------------------------|--|
| Text | Soft keyboard on touchscreen, auto-prompt for note when image is saved |
| Video streaming | |
| Non-radiometric video streaming | Yes; MSX, Thermal, Visual, Picture-in-Picture. USB video class colorized uncompressed with overlay 9 Hz |
| Digital camera | |
| Resolution | 5 MP |
| Focus | Fixed |
| Field of view | 71.5° × 56° (84° diagonal) |
| Video lamp | Yes |
| Data communication interfaces | |
| Wi-Fi | 802.11 a/b/g/n (2.4 and 5 GHz) |
| USB | USB 2.0, Type-C connector |
| Bluetooth | Yes |
| Power system | |
| Battery type | Rechargeable lithium-ion battery (built-in) |
| Battery operating time | 3 hours |
| Charging system | USB-C |
| Charging time | 2 hours |
| Power management | Adjustable stand-by and automatic shut-down |
| Environmental data | |
| Operating temperature range | -10°C to 50°C (14°F to 122°F) |
| Storage temperature range | -40°C to 70°C (-40°F to 158°F) |
| Humidity (operating and storage) | IEC 60068-2-30/24 h 95% relative humidity 25°C to 40°C (77°F to 104°F) / 2 cycles |
| Relative humidity | 95% relative humidity 25°C to 40°C (77°F to 104°F) non-condensing |
| EMC | <ul style="list-style-type: none">EN 301 489-1 REDEN 301 489-17FCC 47 CFR Part 15 B, Class B |

| Encapsulation | Camera housing and lens: IP54 (IEC 60529) |
|----------------------|---|
| Vibration | 2 g (IEC 60068-2-6) |
| Drop | Designed for 2 m (6.56 ft) |
| Environmental safety | <ul style="list-style-type: none">REACH Regulation EC 1907/2006RoHS2 Directive 2011/65/ECWEEE Directive 2012/19/ECProposition 65 |
| Physical data | |
| Weight | 0.19 kg (0.42 lb) |
| Size (L × W × H) | 138 × 84 × 34 mm (5.4 × 3.3 × 0.94 in) |
| Tripod mounting | UNC ¼"-20 |
| Housing material | PC and ABS, partially covered with TPE / Aluminum |
| Packaging, contents | Flir C8, documentation, wrist strap lanyard, USB cable, pouch |

Ordering Information

| Model | Description |
|------------|---|
| 18801-0101 | Compact 320 × 240 Thermal Camera with MSX and Flir Ignite Enabled |

Accessories

| Model | Description |
|------------|---|
| T911940ACC | USB 2.0 A to USB Type-C cable, 1.0 m (black) |
| T300341 | Flir Thermal Studio Standard, 1 year subscription |
| T8510155 | Flir Ignite Pro 100 GB with professional reporting, 1 year subscription |
| T850118 | Flir Ignite 10 GB, 1 year subscription |
| T850116 | Flir Ignite 100 GB, 1 year subscription |
| T132572ACC | Flir C8 Pouch |
| PROTECT-C8 | Flir Protect 3 Year Extended Warranty for Flir C8 |



PREMIUM
CHANNEL
PARTNER



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