

FLIR i3 / i5 / i7

Camera specific



| | FLIR i3 | FLIR i5 | FLIR i7 |
|----------------------------------|---------------------|------------------|--|
| Field of view/min focus distance | 12.5° x 12.5°/0.6 m | 21° x 21°/0.6 m | 29° x 29°/0.6 m |
| IR Resolution | 60 x 60 pixels | 100 x 100 pixels | 140 x 140 pixels |
| Measurement modes | Center spot | Center spot | Center Spot, box with max./min. temp., isotherms above/below selected temperature interval |

General specifications

Imaging performance

| | |
|---------------------------|-------------------------|
| Spectral range | 7.5 - 13 μ m |
| Spatial resolution (IFOV) | 3.7 mrad |
| Image Frequency | 9 Hz |
| Focus | Fixed |
| Focal Plane Array (FPA) | Uncooled microbolometer |

Image Presentation

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|---------|----------------|
| Display | 2.8" color LCD |
|---------|----------------|

Measurement

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|--------------------------|------------------------------------|
| Object temperature range | -20°C to +250°C |
| Accuracy | ± 2 °C or $\pm 2\%$ of reading |

Measurement analysis

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|---|---|
| Emissivity correction | Variable from 0.1 to 1.0 or selected from list of materials |
| Reflected apparent temperature correction | Automatic, based on input of reflected temperature |

Setup

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|-----------------|--|
| Color palettes | Iron, Rainbow and Black/White |
| Set-up controls | Local adaptation of units, language, date and time formats; automatic shutdown |

Image Storage

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|-------------|--|
| Type | MiniSD card |
| File format | Standard JPEG - 14 bit measurement data included |

Power

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|------------------------|--|
| Battery Type | Li-Ion rechargeable |
| Battery operating time | 5 hours , display shows battery status |
| Charging system | In camera, AC adaptor; 3 hours to 90% capacity |
| AC operation | AC adaptor 90-260 VAC input |
| Power management | Automatic shutdown (user selectable) |
| Adaptor voltage | 5 VDC out |

Environmental specifications

| | |
|-----------------------------|---|
| Operating temperature range | 0°C to +50°C |
| Storage temperature range | -40°C to +70°C |
| Humidity | Operating and storage IEC 60068-2-30/24 h 95% relative humidity |
| Shock | 25G, IEC 60068-2-29 |
| Vibration | 2G, IEC 60068-2-6 |
| Drop | 2 m |
| Encapsulation | Camera housing and lens: IP43 |

Physical characteristics

| | |
|-----------------|-------------------------|
| Dimensions | 223 x 79 x 83 mm |
| Weight | 365g, including battery |
| Shipping size | 120 x 400 x 320 mm |
| Shipping weight | 2.8 kg |

Standard package

FLIR i3, FLIR i5 or FLIR i7 thermal imaging camera, hard transport case, FLIR Tools™ PC software CD-ROM, printed getting started guide, printed important information guide, warranty extension card, user documentation CD-ROM, calibration certificate, hand strap, battery (inside camera), power supply/charger with EU, UK, US and Australian plugs, USB cable, miniSD card, with SD card adaptor