Technical Data
FLIR T440 25° (incl. Wi-Fi)

General description
The FLIR T440 is a camera that offers good performance at an affordable price. Excellent ergonomics and easy communication makes the T440 a truly user-friendly camera for the beginner or advanced user.

Benefits:
- Excellent ergonomics: The T440 has a tiltable IR unit, which makes it easy to capture images from any angle comfortably. The size and low weight of the camera facilitates its use over a full working day.
- Affordable performance: The T440 camera is equipped with the innovative ‘Multi Spectral Dynamic Imaging (MSX)’ feature, which produces an image more rich in detail than ever before. You can highlight objects of interest, both on the IR and the visual image, by sketching directly on the camera’s touch screen.
- Extensive communication possibilities: The Wi-Fi connectivity of the T440 allows you to connect to smart phones or tablet PCs, for the wireless transfer of images or remote control of the camera. The Bluetooth®-based Meterlink™ function transfers readings from external measurement instruments to the IR image.

Imaging and optical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR resolution</td>
<td>320 x 240 pixels</td>
</tr>
<tr>
<td>Thermal sensitivity/NETD</td>
<td>&lt; 45 mK @ +30°C (+86°F)</td>
</tr>
<tr>
<td>Field of view (FOV)</td>
<td>25° x 19°</td>
</tr>
<tr>
<td>Minimum focus distance</td>
<td>0.4 m (1.31 ft.)</td>
</tr>
<tr>
<td>Focal length</td>
<td>18 mm (0.7 in.)</td>
</tr>
<tr>
<td>Spatial resolution (IFOV)</td>
<td>1.39 mrad</td>
</tr>
<tr>
<td>F-number</td>
<td>1.3</td>
</tr>
<tr>
<td>Image frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Focus</td>
<td>Automatic (one shot) or manual</td>
</tr>
<tr>
<td>Digital zoom</td>
<td>2x, 4x and 8x</td>
</tr>
</tbody>
</table>

Detector data

- Detector type: Focal plane array (FPA), uncooled microbolometer
- Spectral range: 7.5–13 µm

Image presentation

- Display: Touch screen, 3.5 in. LCD, 320 x 240 pixels
- Image adjustment: Auto or manual

Image presentation modes

- Image modes:
  - IR image, visual image, thermal fusion, picture in picture, thumbnail gallery
- Thermal fusion: IR image shown above, below or within temp interval on visual image
- Multi Spectral Dynamic Imaging (MSX): IR-image with enhanced detail presentation
- Picture in Picture: Resizable and movable IR area on visual image
## Measurement

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object temperature range</strong></td>
<td>–20°C to +120°C (–4°F to +248°F)</td>
</tr>
<tr>
<td></td>
<td>0°C to +650°C (+32°F to +1222°F)</td>
</tr>
<tr>
<td></td>
<td>+250°C to +1200°C (+482°F to +2192°F)</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)</td>
</tr>
</tbody>
</table>

## Measurement analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spotmeter</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td>5 boxes with max./min./average</td>
</tr>
<tr>
<td><strong>Automatic hot/cold detection</strong></td>
<td>Auto hot or cold spotmeter markers within area</td>
</tr>
<tr>
<td><strong>Isotherm</strong></td>
<td>Detect high/low temperature/interval</td>
</tr>
<tr>
<td><strong>Profile</strong></td>
<td>1 live line</td>
</tr>
</tbody>
</table>

## Alarm

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement function alarm</strong></td>
<td>Audible/visual alarms (above/below) on any selected measurement function</td>
</tr>
<tr>
<td><strong>Screening</strong></td>
<td>Difference temperature alarm, audible</td>
</tr>
</tbody>
</table>

## Set-up

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color palettes</strong></td>
<td>Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC</td>
</tr>
<tr>
<td><strong>Set-up commands</strong></td>
<td>User programmable button, local adaptation of units, language, date and time formats</td>
</tr>
</tbody>
</table>

## Storage of images

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image storage</strong></td>
<td>Standard JPEG, including measurement data, on memory card</td>
</tr>
<tr>
<td><strong>Image storage mode</strong></td>
<td>IR/visual images; simultaneous storage of IR and visual images</td>
</tr>
<tr>
<td><strong>Periodic image storage</strong></td>
<td>7 seconds to 24 hours (IR)</td>
</tr>
<tr>
<td></td>
<td>14 seconds to 24 hours (IR and visual)</td>
</tr>
</tbody>
</table>

## Image annotations

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voice</strong></td>
<td>60 seconds (via Bluetooth)</td>
</tr>
<tr>
<td><strong>Text</strong></td>
<td>Text from predefined list or soft keyboard on touch screen</td>
</tr>
<tr>
<td><strong>Sketch</strong></td>
<td>From touch screen</td>
</tr>
<tr>
<td><strong>Image sketch</strong></td>
<td>On IR and visual image</td>
</tr>
<tr>
<td><strong>External sensors</strong></td>
<td>Possible to connect (Bluetooth®):</td>
</tr>
<tr>
<td></td>
<td>Extech Moisture Meter MO297</td>
</tr>
<tr>
<td></td>
<td>Extech Clamp Meter EX845</td>
</tr>
<tr>
<td><strong>Meterlink</strong></td>
<td>Wireless connection (Bluetooth®) to:</td>
</tr>
<tr>
<td></td>
<td>Extech Moisture Meter MO297</td>
</tr>
<tr>
<td></td>
<td>Extech Clamp Meter EX845</td>
</tr>
<tr>
<td><strong>Report generation</strong></td>
<td>• Instant Report (*.pdf file) in camera including IR and visual images</td>
</tr>
<tr>
<td></td>
<td>• Separate PC software with extensive report generation</td>
</tr>
<tr>
<td><strong>Compass</strong></td>
<td>Camera direction automatically added to every image</td>
</tr>
</tbody>
</table>
**FLIR T440 25° (incl. Wi-Fi)**

**Video recording in camera and video streaming**

- Non-radiometric IR-video recording: MPEG-4 to memory card
- Visual video recording: MPEG-4 to memory card
- Radiometric IR-video streaming: Full dynamic to PC using USB or Wi-Fi
- Non-radiometric IR-video streaming: MPEG-4 using Wi-Fi
  
  Uncompressed colorized video using USB

**Digital camera**

- Built-in digital camera: 3.1 Mpixel (2048 x 1536 pixels), and one LED light
- Digital camera, focus: Fixed focus
- Digital camera, FOV: Adapts to the IR lens
- Built-in digital lens data: FOV 53° x 41°
- Digital camera, aspect ratio: 4:3

**Laser pointer**

- Laser: Activated by dedicated button
- Laser alignment: Position is automatic displayed on the IR image
- Laser classification: Class 2
- Laser type: Semiconductor AlGaInP diode laser
- Laser power: 1 mW
- Laser wavelength: 635 nm (red)

**Data communication interfaces**

- Bluetooth: Communication with headset and external sensors
- Wi-Fi: Peer to peer (adhoc) or infrastructure (network)
- SD Card: One card slot for removable SD memory cards
- Audio: Microphone headset via Bluetooth for voice annotation of images
- USB:
  - • USB-A: Connect external USB device
  - • USB Mini-B: Data transfer to and from PC / Uncompressed colorized video
- USB, standard: USB Mini-B: 2.0
- USB, connector type:
  - • USB-A connector
  - • USB Mini-B connector

**Composite video**

- Video out: Composite
- Video, standard: CVBS (ITU-R-BT.470 PAL/SMPTE 170M NTSC)
- Video, connector type: 4-pole 3.5 mm jack

**Radio**

- Wi-Fi: Standard: 802.11 b/g
  - Frequency range: 2412–2462 MHz
  - Max output power: 15 dBm
- Bluetooth: Frequency range: 2402–2480 MHz
- Antenna: Internal

**Power system**

- Battery type: Rechargeable Li Ion battery
- Battery voltage: 3.7 V
- Battery capacity: 4.4 Ah, at +20°C to +25°C (+68°F to +77°F)
- Battery operating time: Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
### FLIR T440 25° (incl. Wi-Fi)

**P/N: 62101-0301**
© 2013, FLIR Systems, Inc.  
All rights reserved worldwide.

#### Power system

<table>
<thead>
<tr>
<th><strong>Charging system</strong></th>
<th>In camera (AC adapter or 12 V from a vehicle) or 2-bay charger</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Charging time</strong></td>
<td>4 h to 90% capacity, charging status indicated by LED's</td>
</tr>
<tr>
<td><strong>Power management</strong></td>
<td>Automatic shutdown and sleep mode (user selectable)</td>
</tr>
<tr>
<td><strong>AC operation</strong></td>
<td>AC adapter, 90–260 VAC input, 12 V output to camera</td>
</tr>
<tr>
<td><strong>Start-up time from sleep mode</strong></td>
<td>Instant on</td>
</tr>
</tbody>
</table>

#### Environmental data

| **Operating temperature range** | −15°C to +50°C (+5°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 |

#### EMC

- ETSI EN 301 489-1 (radio)
- ETSI EN 301 489-17
- EN 61000-6-2 (Immunity)
- EN 61000-6-3 (Emission)
- FCC 47 CFR Part 15 B (Emission)
- ICES-003

#### Radio spectrum

- ETSI EN 300 328
- FCC Part 15.247
- RSS-210

#### Magnetic fields

- EN 61 000-4-8, Test level 5 for continuous field (Severe industrial environment)

#### Encapsulation

- IP 54 (IEC 60529)

#### Bump

- 25 g (IEC 60068-2-29)

#### Vibration

- 2 g (IEC 60068-2-6)

#### Safety

- EN/UL/CSA/PSE 60950-1

#### Physical data

- **Camera weight, incl. battery**: 0.880 kg (1.94 lb.)
- **Camera size (L × W × H)**: 106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward
- **Tripod mounting**: UNC ¼”-20 (adapter needed)
- **Material**: Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
- **Color**: Graphite gray and black

#### Shipping information

- Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- Bluetooth headset
- Calibration certificate
- Camera lens cap
- Downloads brochure
- FLIR Tools download card
- FLIR Apps card
- Getting Started Guide
- Hard transport case
- Important Information Guide
- Memory card
- Neckstrap
- Optics brochure
- Power supply, incl. multi-plugs
- Service & training brochure
- Sunshield
- Thank you card
- USB cable
- User documentation CD-ROM
- Video cable
- Warranty extension card

http://www.flir.com
Optional Accessories

- 1196961 IR lens, f = 30 mm, 15° incl. case
- 1196960 IR lens, f = 10 mm, 45° incl. case
- T197215 Close-up 4x (100 µm) incl. case
- T197214 Close-up 2x (50 µm) incl. case
- T197408 IR lens, 76 mm (6°) with case and mounting support for T/B-200/400
- T197412 IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx
- T186398 Battery
- T197667 Battery package
- T197650 2-bay battery charger, incl. power supply with multi plugs
- T910750 Power supply, incl. multi plugs
- T911173 Memory card SD
- 1910423 USB cable Std A <-> Mini-B
- 1910490 Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582 Video cable
- T198370 Hard transport case for FLIR T/B2xx-4xx
- T911048 Pouch for FLIR T6xx and T4xx series
- T124544 Neck strap
- T122970 Sun shield
- T197771 Bluetooth Headset
- T196598 Value pack T4xx 2013-01
- T910972 EX945: Clamp meter + IR therm TRMS 1000A AC/DC
- T910973 MO297: Moisture meter, pinless with memory
- T911093 Tool belt
- 19250-100 IR Window 2 in
- 19251-100 IR Window 3 in
- 19252-100 IR Window 4 in.

Optional Software

- T197717 FLIR Reporter Professional (DVD)
- T127451 FLIR Reporter Professional (license only)
- T197965 FLIR Tools
- T127648 FLIR Tools+ (license only)
- DSW-10000 FLIR IR Camera Player
- APP-10002 FLIR Tools Mobile (Android Application)
- APP-10003 FLIR Tools Mobile (iPad/iPhone Application)
- T198206 FLIR ResearchIR 3 (CD)
- T127597 FLIR ResearchIR 3 (license only)
- T127597L5 FLIR ResearchIR 3 (license only), 5 user licenses
- T127597L10 FLIR ResearchIR 3 (license only), 10 user licenses
- T198209 FLIR ResearchIR 3 Max (CD)
- T127598 FLIR ResearchIR 3 Max (license only)
- T127598L5 FLIR ResearchIR 3 Max (license only), 5 user licenses
- T127598L10 FLIR ResearchIR 3 Max (license only), 10 user licenses
- T198290 Upgrade previous version to FLIR ResearchIR 3
- T198321 Upgrade previous version to FLIR ResearchIR 3 Max
- T198290 Upgrade FLIR ResearchIR 3 to FLIR ResearchIR 3 Max
1196961; IR lens, f = 30 mm, 15° incl. case

General description
The 15° lens is a popular lens accessory and provides 1.7× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Technical data
- Field of view (FOV): 15° × 11.25°
- Minimum focus distance: 1.2 m (3.93 ft.)
- Focal length: 30.38 mm (1.2 in.)
- Spatial resolution (IFOV): Depends on the IR resolution of the camera:
  - 1.65 mrad for 160 × 120 pixels
  - 1.32 mrad for 200 × 150 pixels
  - 1.10 mrad for 240 × 180 pixels
  - 0.82 mrad for 320 × 240 pixels
- F-number: 1.3
- Weight: 0.092 kg (0.203 lb.), incl. two lens caps
- Size (L × D): 24 × 58 mm (1.0 × 2.3 in.)

Shipping information
- Lens
- Lens case

1196960; IR lens, f = 10 mm, 45° incl. case

General description
This wide angle lens has a field of view almost double that of the standard lens. Perfect for wide or tall targets or when working in crowded spaces.

Technical data
- Field of view (FOV): 45° × 33.8°
- Minimum focus distance: 0.20 m (0.66 ft.)
- Focal length: 9.66 mm (0.38 in.)
Optional Accessories

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
</table>
| Spatial resolution (IFOV)     | Depends on the IR resolution of the camera:  
|                               | 5.18 mrad for 160 × 120 pixels  
|                               | 4.14 mrad for 200 × 150 pixels  
|                               | 3.45 mrad for 240 × 180 pixels  
|                               | 2.59 mrad for 320 × 240 pixels  |
| F-number                      | 1.3     |
| Weight                        | 0.105 kg (0.231 lb.), incl. two lens caps |
| Size (L × D)                  | 38 × 47 mm (1.5 × 1.9 in.) |

Shipping information

- Lens
- Lens case

T197215; Close-up 4x (100 µm) incl. case

General description

For R&D usage or development purposes. As an example looking at PCB's or small electronic components.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of view (FOV)</td>
<td>32 × 24 mm</td>
</tr>
<tr>
<td>Magnifying factor</td>
<td>4x</td>
</tr>
<tr>
<td>Working distance</td>
<td>79 mm</td>
</tr>
<tr>
<td>Depth of field</td>
<td>±2.0 mm</td>
</tr>
<tr>
<td>Focal length</td>
<td>73 mm (2.9 in.)</td>
</tr>
</tbody>
</table>
| Spatial resolution (IFOV)     | Depends on the IR resolution of the camera:  
|                               | 200 µm for 160 × 120 pixels  
|                               | 160 µm for 200 × 150 pixels  
|                               | 133 µm for 240 × 180 pixels  
|                               | 100 µm for 320 × 240 pixels  |
| F-number                      | 1.3     |
| Number of lenses              | 2 (2 asph) |
| MTF @ 70% of FOV              | Normal requirements (52%) |
| Distortion                    | 3%      |
| Weight                        | 0.11 kg (0.24 lb.) |
| Size (L × D)                  | 35.2 × 55 mm |

Shipping information

- Lens
- Lens case

v1.03
Optional Accessories

T197214; Close-up 2× (50 µm) incl. case

General description
For R&D usage or development purposes. As an example looking at PCB’s or small electronic components.

Technical data

<table>
<thead>
<tr>
<th>Field of view (FOV)</th>
<th>16 × 12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnifying factor</td>
<td>2×</td>
</tr>
<tr>
<td>Working distance</td>
<td>33 mm</td>
</tr>
<tr>
<td>Depth of field</td>
<td>±0.4 mm</td>
</tr>
<tr>
<td>Focal length</td>
<td>37 mm (1.5 in.)</td>
</tr>
<tr>
<td>Spatial resolution (IFOV)</td>
<td>Depends on the IR resolution of the camera:</td>
</tr>
<tr>
<td></td>
<td>100 µm for 160 × 120 pixels</td>
</tr>
<tr>
<td></td>
<td>80 µm for 200 × 150 pixels</td>
</tr>
<tr>
<td></td>
<td>67 µm for 240 × 180 pixels</td>
</tr>
<tr>
<td></td>
<td>50 µm for 320 × 240 pixels</td>
</tr>
<tr>
<td>F-number</td>
<td>1.3</td>
</tr>
<tr>
<td>Number of lenses</td>
<td>2 (2 asph)</td>
</tr>
<tr>
<td>MTF @ 70% of FOV</td>
<td>Normal requirements (52%)</td>
</tr>
<tr>
<td>Distortion</td>
<td>3%</td>
</tr>
<tr>
<td>Weight</td>
<td>0.11 kg (0.24 lb.)</td>
</tr>
<tr>
<td>Size (L × D)</td>
<td>35.2 × 55 mm</td>
</tr>
</tbody>
</table>

Shipping information
- Lens
- Lens case

T197408; IR lens, 76 mm (6°) with case and mounting support for T/B-200/400

General description
A narrow FOV is used in applications where the object that is going to be monitored is remote from the Camera or when the Camera needs to be far away from the object due to for an example high temperatures.
Optional Accessories

Technical data

<table>
<thead>
<tr>
<th>Field of view (FOV)</th>
<th>6° × 4.5°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum focus distance</td>
<td>4 m (13.11 ft.)</td>
</tr>
<tr>
<td>Focal length</td>
<td>76 mm (3.0 in.)</td>
</tr>
<tr>
<td>Spatial resolution (IFOV)</td>
<td>Depends on the IR resolution of the camera: 0.66 mrad for 160 × 120 pixels 0.53 mrad for 200 × 150 pixels 0.44 mrad for 240 × 180 pixels 0.33 mrad for 320 × 240 pixels</td>
</tr>
<tr>
<td>F-number</td>
<td>1.3</td>
</tr>
<tr>
<td>Number of lenses</td>
<td>3 (3 asph)</td>
</tr>
<tr>
<td>MTF @ 70% of FOV</td>
<td>Normal requirements (52%)</td>
</tr>
<tr>
<td>Distortion</td>
<td>3%</td>
</tr>
<tr>
<td>Weight</td>
<td>Lens: 0.328 kg (0.723 lb.) Support: 0.099 kg (0.218 lb.)</td>
</tr>
<tr>
<td>Size (L × D)</td>
<td>106 × 89 mm (4.17 × 3.48 in.), excluding support</td>
</tr>
</tbody>
</table>

Shipping information

- Lens
- Lens case
- Mounting support

T197412; IR lens, 4 mm (90°) with case and mounting support for T/B2xx-4xx

General description

A wide angle lens is used when working in confined areas or when a large object area needs to be covered. This lens is also designed for to look in to electrical cabinets down to 1/2" windows

Technical data

<table>
<thead>
<tr>
<th>Field of view (FOV)</th>
<th>90° × 73°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum focus distance</td>
<td>40 mm (1.57 in.)</td>
</tr>
<tr>
<td>Focal length</td>
<td>4 mm (0.157 in.)</td>
</tr>
<tr>
<td>Spatial resolution (IFOV)</td>
<td>Depends on the IR resolution of the camera: 12.5 mrad for 160 × 120 pixels 10.0 mrad for 200 × 150 pixels 8.33 mrad for 240 × 180 pixels 6.25 mrad for 320 × 240 pixels</td>
</tr>
<tr>
<td>F-number</td>
<td>1.3</td>
</tr>
<tr>
<td>Number of lenses</td>
<td>3 (3 asph)</td>
</tr>
<tr>
<td>MTF @ 70% of FOV</td>
<td>Normal requirements (52%)</td>
</tr>
<tr>
<td>Distortion</td>
<td>5%</td>
</tr>
<tr>
<td>Weight</td>
<td>Lens: 0.262 kg (0.578 lb.) Support: 0.053 kg (0.117 lb.)</td>
</tr>
<tr>
<td>Size (L × D)</td>
<td>90 × 60 mm (3.54 × 2.36 in.), excluding support</td>
</tr>
</tbody>
</table>
Optional Accessories

Shipping information

- Lens
- Lens case
- Mounting support

1196398; Battery

General description

High capacity battery for the IR camera.

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>Rechargeable Li ion battery</td>
</tr>
<tr>
<td>Battery voltage</td>
<td>7.2 V</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>2.2 Ah, at +20°C (+68°F)</td>
</tr>
<tr>
<td>Battery note</td>
<td>Approximate lithium content: 1.0 g</td>
</tr>
<tr>
<td>Charging time</td>
<td>2.5 h to 95% capacity, charging status indicated by LEDs</td>
</tr>
<tr>
<td>Charging temperature</td>
<td>0°C to +45°C (+32°F to +113°F)</td>
</tr>
<tr>
<td>Battery storage temperature range</td>
<td>−40°C to +70°C (−40°F to +158°F)</td>
</tr>
<tr>
<td>Battery weight</td>
<td>0.12 kg (0.26 lb.)</td>
</tr>
<tr>
<td>Size (L × W × H)</td>
<td>92 × 41 × 26 mm (3.6 × 1.6 × 1.0 in.)</td>
</tr>
</tbody>
</table>

T197667; Battery package

General description

A complete battery package consisting of three standard products.

Shipping information

- T197648 Battery kit, see 1190398 - Battery for specifications
- T197650 2-bay charger kit incl Power supply
- T197649 12 VDC Connection cable kit, see 1196497 - 12 VDC connection cable for specifications
Optional Accessories

T197650; 2-bay battery charger, incl. power supply with multi plugs

General description
Stand-alone 2-bay battery charger, including power supply with multi plugs.

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC operation</td>
<td>100–240 VAC, 50/60 Hz, 12 VDC out</td>
</tr>
<tr>
<td>Power</td>
<td>2000 mA at 12 VDC</td>
</tr>
<tr>
<td>Battery charger size (L x W x H)</td>
<td>80 x 98 x 47 mm (3.2 x 3.9 x 1.8 in.), without battery</td>
</tr>
<tr>
<td>Cable length</td>
<td>1.98 m (6.5 ft.)</td>
</tr>
</tbody>
</table>

Shipping information
- Stand-alone 2-bay battery charger
- Power supply including cable
- EU plug
- UK plug
- US plug
- AU plug

T910750; Power supply, incl. multi plugs

General description
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC operation</td>
<td>100–240 VAC, 50/60 Hz, 12 VDC out</td>
</tr>
<tr>
<td>Power</td>
<td>2000 mA at 12 VDC</td>
</tr>
<tr>
<td>Cable length</td>
<td>1.98 m (6.5 ft.)</td>
</tr>
</tbody>
</table>
## Optional Accessories

**P/N: 62101-0301**

© 2013, FLIR Systems, Inc.  
All rights reserved worldwide.

### Optional Accessories

#### Shipping information

- Power supply including cable
- EU plug
- UK plug
- US plug
- AU plug

<table>
<thead>
<tr>
<th>EAN-13</th>
<th>7332558004494</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPC-12</td>
<td>845188002664</td>
</tr>
</tbody>
</table>

#### T911173; Memory card SD

**General description**

SD Card for data storage (e.g. images)

**Technical data**

<table>
<thead>
<tr>
<th>Memory card, size</th>
<th>At least 2 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2 g (0.07 oz.)</td>
</tr>
<tr>
<td>Size (L × W × H)</td>
<td>32.0 × 24.0 × 2.1 mm (1.26 × 0.94 × 0.08 in.)</td>
</tr>
</tbody>
</table>

**Shipping information**

- SD Card

#### 1910423; USB cable Std A <-> Mini-B

**General description**

This cable is used to connect the infrared camera with a computer, using the USB protocol.

**Technical data**

<table>
<thead>
<tr>
<th>Weight</th>
<th>60 g (2.1 oz.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable length</td>
<td>1.8 m (5.9 ft.)</td>
</tr>
<tr>
<td>Connector</td>
<td>Standard USB-A to USB Mini-B</td>
</tr>
</tbody>
</table>
Optional Accessories

1910490; Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.

General description
This cable is used to power the infrared camera from the cigarette lighter socket in a car.

Note: This is the same product as p/n 1196497.

Technical data
Cable length 1.2 m (3.9 ft).

1910582; Video cable

General description
This cable is used to transfer video signals from the infrared camera to an external monitor, or to a computer featuring an internal video card.

Technical data
Cable length 1.9 m (6.2 ft.)
Connector 3.5 mm (four pin) plug to RCA (red, white, yellow)

Shipping information
EAN-13 7332558001226
UPC-12 845188002183
T198370; Hard transport case for FLIR T/B2xx-4xx

**General description**
Rugged, watertight plastic shipping case. Holds all items neatly and securely. The case can be locked with padlocks and features a membrane to prevent pressure build-up in airplane cargo holds.

**Technical data**
- **Weight:** 2.54 kg (5.59 lb.)
- **Size (L x W x H):** 484 x 345 x 178 mm (19.1 x 13.6 x 7.0 in.)
- **Material:** PP with Rubber Blend (Polypropylene)
- **Color:** Black

**Shipping information**
- **Packaging, weight:** 2.94 kg (6.47 lb.)
- **Packaging, size:** 505 x 365 x 185 mm (19.9 x 14.4 x 7.3 in.)

---

T911048; Pouch for FLIR T6xx and T4xx series

**General description**
Pouch, with shoulder strap, to carry and protect the camera, made in durable nylon. The pouch can be used together with the tool belt.

**Technical data**
- **Weight:** 0.27 kg (0.60 lb.), excluding shoulder strap
- **Size (L x W x H):** 200 x 110 x 185 mm (7.9 x 4.3 x 7.3 in.), excluding shoulder strap
- **Color:** Black

**Shipping information**
- **Pouch**
- **Strap**
1124544; Neck strap

General description
Neck strap to carry the camera.

Technical data
| Color   | Black |

Shipping information
- Neck strap

1123970; Sun shield

General description
Sunshield, to increase visibility of the LCD.

Technical data
| Size (L × W × H)       | 86 × 61 × 46 mm (3.4 × 2.4 × 1.8 in.) |

© 2013, FLIR Systems, Inc. All rights reserved worldwide.
Optional Accessories

T197771; Bluetooth Headset

General description
Headset with Bluetooth for wireless connection with the infrared camera.

Technical data
<table>
<thead>
<tr>
<th>Bluetooth</th>
<th>Connection to the infrared camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
<td>Headset including microphone</td>
</tr>
</tbody>
</table>

Shipping information
- Headset
- Ear clip
- Charger
- Multi plugs
- USB cable Std A to Mini-B

T198598; Value pack T4xx 2013-01

General description
Value Pack T4xx including Toolbelt, Pouch and an extra battery

Shipping information
- Toolbelt
- Pouch T6xx/T4xx
- Battery T4xx

EAN-13: 7332558005569
UPC-12: 845188005771
## Optional Accessories

### T910972; EX845: Clamp meter + IR therm TRMS 1000A AC/DC

#### General description

Bluetooth Transmitter with METERLINK™
Wirelessly transmits Voltage and Current readings to your FLIR high-definition infrared camera to incorporate meter readings with thermal images.

For more info see www.extech.com

METERLINK™ makes it easy for a thermographer to quickly take electrical readings using an Extech EX845 clamp meter and instantly record them right on an infrared image. METERLINK™ accelerates infrared inspections and diagnostics while adding value to your reports by increasing the amount of detail you provide.

**EX845 CAT IV Clamp Meter Features:**
- Patented built-in non-contact IR Thermometer design with laser pointer
- True RMS Current and Voltage measurements
- Peak hold captures inrush currents and Transients
- MultiMeter functions include AC/DC Voltage, Resistance, Capacitance, Frequency, Diode, and Continuity
- 1.7” (43mm) jaw opening for conductors up to 750MCM or two 500MCM
- 4000 count backlit display
- Features include Data Hold and Min/Max and Auto Power off
- Autoranging with manual range button
- Complete with CAT IV test leads, 9V battery, Type K probe (-22°F/-30°C), pouch case, and Professional Test Lead Set

**Professional Test Lead Features:**
- 8-Piece Professional Test Lead set
- Two 42” (1m) PVC lead extensions with shrouded banana plugs at both ends
- Two modular 4” (102mm) Heavy Duty test probe handles with 0.16” (4mm) banana plug tip
- Two standard size, alligator clips with insulated rubber boot
- Two extra large, double-insulated, alligator clips with sharp teeth for piercing insulated wire. Jaws open to 0.6” (20mm)
Optional Accessories

T910973; MO297: Moisture meter, pinless with memory

General description

Bluetooth Transmitter with MeterLink™
Wirelessly transmits moisture and humidity data to your FLIR high-definition infrared camera to incorporate meter readings with thermal images.
For more info see www.extech.com

FLIR infrared cameras rapidly reveal moisture problems in homes and commercial structures. Documenting water damage with a moisture meter can provide valuable added details about moisture issues. The process of correlating readings to infrared images however is awkward, imprecise and prone to errors. METERLiNK™ expedites building inspections by annoting several moisture-related readings from damaged surfaces directly onto the related infrared image. METERLiNK™ increases accuracy and eliminates confusion about which moisture readings pertain to which images.

Key features:

• Quickly indicates the moisture content of materials with Pinless technology without damaging the surface; Remote Pin-type probe (MO200-P included) allows for contact moisture readings (3ft/0.9m cable length)
• Manually store/recall up to 20 labeled readings
• Works on multiple wood types and other building materials
• Easy to read, large dual display with automatic backlight feature
• Simultaneously displays moisture value of wood or material being tested, Air Temperature, IR Temperature, or Humidity
• Pinless measurement depth to 0.75” (19mm) below the surface
• Programmable high/low Moisture and Humidity alarms
• Designed with a patented IR circuit to measure non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity
• Built-in Humidity/Temperature probe measures Relative Humidity, Air Temperature plus Grains Per Pound (GPP)/(g/kg), Dew Point (DP), Vapor Pressure, and condensation point
• Automatic calculation of differential Temperature (IR - DP) to determine condensation point
• Fast Analog Bargraph
• Min/Max and Data Hold
• Auto power off and low battery indication
• Complete with pin moisture probe with cable, 9V battery and case
Optional Accessories

T911093; Tool belt

General description
Tool belt for FLIR camera pouches.

Technical data

<table>
<thead>
<tr>
<th>Weight</th>
<th>0.117 kg (0.26 lb.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.44 m (4.7 ft.)</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
</tbody>
</table>

Shipping information

- Tool belt
  - EAN-13: 4743254000384
  - UPC-12: 845188003210

19250-100; IR Window 2 in

General description
This device is a viewport which consists of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow the use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.

Technical data

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Any range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Indoor/outdoor type 4/12</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Maximum: 260°C (500°F)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>Optics: maximum: 1357°C (2474°F)</td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>25.5 x 73 x 86 mm (1.0 x 2.87 x 3.36 in.)</td>
</tr>
<tr>
<td>Viewing aperture diameter</td>
<td>45 mm (1.77 in.)</td>
</tr>
<tr>
<td>Material</td>
<td>Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel</td>
</tr>
</tbody>
</table>
Optional Accessories

Technical data

Comments to physical data
- Required hole diameter, nominal: 60.3 mm (2.375 in.)
- Greenlee Punch: 76BB
- Maximum pullout strength: 658 kg (1450 lb.)

Waveband
- Broadband IR: short-, mid-, and longwave

Visible light spectrum
- Yes

Certification
- UL, IP67, NEMA Type 4/12, CSA

Shipping information

- IR window
- Case
- Mounting instruction
- Additional safety screw

19251-100; IR Window 3 in.

General description

This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.

Technical data

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Any range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Indoor/outdoor type 4/12</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Maximum: 260°C (500°F)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>Optics, maximum: 1357°C (2474°F)</td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>26.9 x 99 x 107 mm (1.05 x 3.89 x 4.22 in.)</td>
</tr>
<tr>
<td>Viewing aperture diameter</td>
<td>69 mm (2.71 in.)</td>
</tr>
<tr>
<td>Material</td>
<td>Optics: CaF2 (Calcium Fluoride Crystal)</td>
</tr>
<tr>
<td></td>
<td>Body: Anodized aluminum</td>
</tr>
<tr>
<td></td>
<td>Hardware: steel</td>
</tr>
<tr>
<td>Comments to physical data</td>
<td>Required hole diameter, nominal: 88.9 mm (3.5 in.)</td>
</tr>
<tr>
<td></td>
<td>Greenlee Punch: 799BB</td>
</tr>
<tr>
<td></td>
<td>Maximum pullout strength: 1656 kg (3650 lb.)</td>
</tr>
<tr>
<td>Waveband</td>
<td>Broadband IR: short-, mid-, and longwave</td>
</tr>
<tr>
<td>Visible light spectrum</td>
<td>Yes</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, IP67, NEMA Type 4/12, CSA</td>
</tr>
</tbody>
</table>

Shipping information

- IR window
- Case
- Mounting instruction
- Additional safety screw
Optional Accessories

19252-100; IR Window 4 in.

General description
This device is a viewport which consist of a crystal "glass" window, mounted in an aluminum frame. The glass is specially formulated to allow transmission of infrared light to allow use of infrared thermal sensing equipment without opening the enclosure. This device is intended for installation in doors or walls of electrical enclosures without compromising the integrity of the enclosure.

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>Any range</td>
</tr>
<tr>
<td>Environment</td>
<td>Indoor/outdoor type 4/12</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Maximum: 260°C (500°F)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>Optics, maximum: 1357°C (2474°F)</td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>29.3 x 127 x 137 mm (1.15 x 5.01 x 5.37 in.)</td>
</tr>
<tr>
<td>Viewing aperture diameter</td>
<td>89 mm (3.50 in.)</td>
</tr>
<tr>
<td>Material</td>
<td>Optics: CaF2 (Calcium Fluoride Crystal)</td>
</tr>
<tr>
<td></td>
<td>Body: Anodized aluminum</td>
</tr>
<tr>
<td></td>
<td>Hardware: steel</td>
</tr>
<tr>
<td>Comments to physical data</td>
<td>Required hole diameter, nominal: 114.3 mm (4.5 in.)</td>
</tr>
<tr>
<td></td>
<td>Greentee Punch: 742BB</td>
</tr>
<tr>
<td></td>
<td>Maximum pullout strength: 1678 kg (3700 lb.)</td>
</tr>
<tr>
<td>Waveband</td>
<td>Broadband IR: short-, mid-, and longwave</td>
</tr>
<tr>
<td>Visible light spectrum</td>
<td>Yes</td>
</tr>
<tr>
<td>Certification</td>
<td>UL, IP67, NEMA Type 4/12, CSA</td>
</tr>
</tbody>
</table>

Shipping information

- IR window
- Case
- Mounting instruction
- Additional safety screw
General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV (“Field of View Match”)”
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for MeterLink™ data
- *.docx compatibility

Download

To download a 30-day evaluation version, click the following link:

http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=93

Release notes

Version 9.0
Optional Software

Release notes

New features
• --- News in 9.0: ---
• Support for MSX (Multi-Spectral Dynamic Imaging) images.
• Support for sketch images in both IR and visual with on/off toggling.
• Support for same FOV (“Field of View Match”).
• Grid settings.
• New user interface for New Report and Pro Wizard.
• New templates.
• Various bug fixes.
• --- News in SP4: ---
• Big endian issue of DC images resolved.
• IR Table labels can be changed.
• IR Summary Table labels can be changed.
• Various bug fixes.

Shipping information

• FLIR Reporter Professional
• Getting Starting Guide

System requirements

Operating system
• Windows XP, 32-bit
• Windows Vista, 32-bit
• Windows Vista, 64-bit
• Windows 7, 32-bit
• Windows 7, 64-bit

Software requirements
• Office 2007 (32-bit)
• Office 2010 (32-bit)

T127451; FLIR Reporter Professional (license only)

General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

Key features:
Optional Software

General description

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Support for MSX (Multi-Spectral Dynamic Imaging) images
- Support for sketch images in both IR and visual with on/off toggling
- Support for same FOV ("Field of View Match")
- Grid settings
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for MeterLink™ data
- *.docx compatibility

Download

Download your copy of FLIR Reporter Professional here:
http://support.flir.com/reporter

Release notes

Version 9.0

New features

- News in 9.0: ---
- Support for MSX (Multi-Spectral Dynamic Imaging) images.
- Support for sketch images in both IR and visual with on/off toggling.
- Support for same FOV ("Field of View Match").
- Grid settings.
- New templates.
- Various bug fixes.

- News in SP4: ---
- Big endian issue of DC images resolved.
- IR Table labels can be changed.
- IR Summary Table labels can be changed.
- Various bug fixes.

Shipping information

- FLIR Reporter Professional scratchcard

System requirements

Operating system

- Windows XP, 32-bit
- Windows Vista, 32-bit
- Windows Vista, 64-bit
- Windows 7, 32-bit
- Windows 7, 64-bit

Software requirements

- Office 2007 (32-bit)
- Office 2010 (32-bit)
T197965; FLIR Tools

General description

FLIR Tools is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

Key features:

- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search in all texts in images and text annotations.
- Store the five latest search criterias.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to the imagesheets.
- Create PDF reports of any images of your choice.
- Add headers, footers, and logotypes to the report.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by by path and groups sorted by date)
- Browse and purchase infrared cameras, software, and accessories in our webshop.
- Software localized to 21 languages.
- Camera update (applies to FLIR Exx, T4xx and T6xx series only).

Download

This software is a freeware. To download, click the following link:

Release notes

Version  FLIR Tools 3.1
Optional Software

Release notes

New features

- --- News in 3.1: ---
- Support for Flir K series cameras.
- Interactive quick start guide when connecting a Flir K series camera.
- Live image streaming from Flir K series cameras.
- PC-side configuration of Flir K series cameras.
- New report templates for DC images only added.
- Various bug fixes.
- --- News in 3.0: ---
- Add folder to library.
- Support for isotherms and color alarms
- Image description for both IR and DC.
- Export functionality (*.avi, *.csv).
- New web installer.
- Various bug fixes.
- --- News in 2.2: ---
- Support for rotating DC images.
- Improved camera connection
- Various bug fixes.
- --- News in 2.1: ---
- New text comment template tab (Create, edit and transfer templates to and from any FLIR camera. Import and export templates.).
- Support for MSX (Multi-Spectral Dynamic Imaging) images.
- Support for sketch images in both IR and visual with on/off toggling.
- Support for same FOV ("Field of View Match").
- Display of compass information in edit and report mode.
- Display of GPS information in edit and report mode (Direct link to Google Maps for GPS-tagged images from the report).
- Support for FLIR A3x5 and A6x5.
- Camera tab (Logging feature. Colorized status of camera availability).
- An updated toolbar in the edit window.
- Support for FLIR T4xx camera models when updating the camera.
- Various bug fixes.

Shipping information

- Digital download, or
- CD-ROM

System requirements

Operating system

- Windows XP, 32-bit
- Windows Vista, 32-bit
- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit
T127648; FLIR Tools+ (license only)

General description
Compared to FLIR Tools, FLIR Tools+ has the following features:
- Radiometric sequence recording
- Playback of recordings
FLIR Tools/Tools+ is a software suite specifically designed to provide an easy way to update your camera and create inspection reports.

FLIR Tools+ main features:
- Radiometric panorama with MSX images.
- Advanced word reports.
- Report templates (horizontal IR + DC, vertical IR + DC, horizontal IR + IR).
- Import images from your camera to your computer.
- Apply filters when searching for images.
- Search in all texts in images and text annotations.
- Store the five latest search criterias.
- Lay out, move, and resize measurement tools on any infrared image.
- Create PDF imagesheets of any images of your choice.
- Add headers, footers, and logos to the imagesheets.
- Create PDF reports of any images of your choice.
- Add headers, footers, and logotypes to the report.
- Report editor (report page preview and snap to grid).
- Sort function (by date, groups sorted by by path and groups sorted by date)
- Browse and purchase infrared cameras, software, and accessories in our webshop.
- Software localized to 21 languages.
- Camera update (applies to FLIR Exx, T4xx and T6xx series only).

Download
Download your copy of FLIR Tools+ here:
http://support.flir.com/toolsplus

Release notes
| Version | FLIR Tools+ 3.1 |
Optional Software

Release notes

New features
- --- News in 3.1: ---
  - Support for Flir K series cameras.
  - Interactive quick start guide when connecting a Flir K series camera.
  - Live image streaming from Flir K series cameras.
  - PC-side configuration of Flir K series cameras.
  - New report templates for DC images only added.
  - Various bug fixes.
- --- News in 3.0: ---
  - Radiometric panorama with MSX images.
  - Advanced reports.
  - Various bug fixes.
- --- News in 2.2: ---
  - Radiometric sequence recording
  - Playback of recordings
- --- News in 2.1: ---
  - New text comment template tab (Create, edit and transfer templates to and from any FLIR camera. Import and export templates.).
  - Support for MSX (Multi-Spectral Dynamic Imaging) images.
  - Support for sketch images in both IR and visual with on/off toggling.
  - Support for same FOV (“Field of View Match”).
  - Display of compass information in edit and report mode.
  - Display of GPS information in edit and in report mode (Direct link to Google Maps for GPS-tagged images from the report).
  - Support for FLIR A3x5 and A6x5.
  - Camera tab (Logging feature. Colorized status of camera availability).
  - An updated toolbar in the edit window.
  - Support for FLIR T4xx camera models when updating the camera.
  - Various bug fixes.

Shipping information

- FLIR Tools+ scratchcard

System requirements

Operating system
- Windows XP, 32-bit
- Windows Vista, 32-bit
- Windows 7, 32-bit
- Windows 7, 64-bit
- Windows 8, 32-bit
- Windows 8, 64-bit

DSW-10000; FLIR IR Camera Player

General description

FLIR IR Camera Player is a PC-based remote control and viewer that you can use with cameras from FLIR Systems.

You can perform one or more of the following with FLIR IR Camera Player:
Optional Software

General description

- Record a video stream from the camera.
- Save a frame from the video stream as a snapshot image (*.bmp).
- Autofocus, focus far, and focus near.
- Autoadjust the camera image.
- Freeze the camera image.
- Save a camera image in the camera.
- Change Color palette.
- Add an image description and a text comment to an image.

You connect a camera in one of the following ways:

- Ethernet
- FireWire
- USB

Download

This software is a freeware. To download, click the following link:

http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=89

Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>2.2.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>New features</td>
<td>--- News in 2.2.7</td>
</tr>
<tr>
<td></td>
<td>--- Added support for FLIR Ax5 series.</td>
</tr>
<tr>
<td></td>
<td>--- Various bug fixes.</td>
</tr>
</tbody>
</table>

System requirements

<table>
<thead>
<tr>
<th>Operating system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP, 32-bit</td>
</tr>
<tr>
<td>Windows Vista, 32-bit/64-bit</td>
</tr>
<tr>
<td>Windows 7, 32-bit/64-bit</td>
</tr>
</tbody>
</table>

APP-10002; FLIR Tools Mobile (Android Application)

General description

FLIR Tools Mobile is an intuitive Android app for analyzing, managing, and distributing infrared images.

Key features:
Optional Software

General description

• Remote control of your FLIR camera.
• Support for MSX (Multi-Spectral Dynamic Imaging) images.
• Support for sketch images in both IR and visual with on/off toggling.
• Support for same FOV (“Field of View Match”).
• Editable text comments.
• Import images from your Wi-Fi-enabled infrared camera.
• Lay out and move measurement tools on the image.
• Read out temperature measurements.
• Zoom in on images.
• On the Android phone/tablet, remotely take snapshots when a camera is connected.
• On the camera, take snapshots that will automatically be saved on the Android phone/tablet.
• Delete images on the Android phone/tablet.
• Display an image’s GPS coordinates on Google Maps.
• Create and e-mail reports.
• Save images in the Android phone/tablet photo library.
• Send images to FTP sites and other file-sharing services (DropBox, Box.net, etc.).
• Display image information, e.g., object parameters, text comments, and file details.
• Play back voice comments.
• Change the level and span.
• Change general settings in the app.
• Help files in 21 languages.

Download

The application can be downloaded from Android Market or Amazon Marketplace, see the link below.


Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR Tools Mobile 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>New features</td>
<td>--- News in 2.0 ---</td>
</tr>
<tr>
<td></td>
<td>Remote control of your FLIR camera.</td>
</tr>
<tr>
<td></td>
<td>Support for MSX (Multi-Spectral Dynamic Imaging) images.</td>
</tr>
<tr>
<td></td>
<td>Support for sketch images in both IR and visual with on/off toggling.</td>
</tr>
<tr>
<td></td>
<td>Support for same FOV (“Field of View Match”).</td>
</tr>
<tr>
<td></td>
<td>Editable text comments.</td>
</tr>
<tr>
<td></td>
<td>--- News in 1.0.1 ---</td>
</tr>
<tr>
<td></td>
<td>Greek and Russian language support for PDF export now enabled.</td>
</tr>
<tr>
<td></td>
<td>Help files now translated into 21 languages.</td>
</tr>
<tr>
<td></td>
<td>Various bug fixes and optimizations.</td>
</tr>
</tbody>
</table>

System requirements

| Operating system | Android 2.3 and later |

v1.03
Optional Software

APP-10003; FLIR Tools Mobile (iPad/iPhone Application)

General description

FLIR Tools Mobile lets professional thermographers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras. With FLIR Tools Mobile the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access also gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Using FLIR Tools Mobile, you can do one or more of the following:

- Import images from your infrared camera
- Lay out and move measurement tools on the image
- Read out temperature measurements
- Zoom in on images
- On the iPhone/iPad, remotely take snapshots when a camera is connected
- On the camera, take snapshots that will automatically be saved in the iPhone/iPad
- Delete any images on the iPhone/iPad
- Display an image's GPS coordinates on Google Maps
- Create and e-mail imagesheets
- Create and e-mail reports
- Print imagesheets and reports to any AirPrint-enabled printer
- Save images to iPhone/iPad photo library
- Send images to FTP sites and other file sharing services (Dropbox, Box.net, etc.)
- Display image information, such as object parameters, text comments, file information, etc.
- Play-back voice comments
- Change level and span
- Change general settings in the app
- Change palette

FLIR Tools Mobile lets you take control of the following features on selected cameras:

- Remote control of your FLIR camera.
- Support for MSX (Multi-Spectral Dynamic Imaging) images.
- Support for sketch images in both IR and visual with on/off toggling.
- Support for same FOV ("Field of View Match").
- Editable text comments.
- Auto and manual focus
- Level and span
- Color palettes
- Temperature measurement analytics
- Spot
- Area box
- Circle
- Line
- Parameter settings
- Emissivity
- Reflected temperature
- Relative humidity
- Atmospheric temperature
- IR and visible light image blending
- Picture-in-picture
- Thermal fusion
- Image storage
- MPEG 4 video
- Radiometric JPEG stills
Optional Software

Download

The application can be downloaded from App Store, see the link below.


Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR Tools Mobile (iPad/iPhone Application) 1.0.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>New features</td>
<td>• --- News in 1.0.3 ---</td>
</tr>
<tr>
<td></td>
<td>• Remote control of your FLIR camera.</td>
</tr>
<tr>
<td></td>
<td>• Support for MSX (Multi-Spectral Dynamic Imaging)</td>
</tr>
<tr>
<td></td>
<td>• Support for sketch images in both IR and visual</td>
</tr>
<tr>
<td></td>
<td>• Support for same FOV (“Field of View Match”)</td>
</tr>
<tr>
<td></td>
<td>• Editable text comments.</td>
</tr>
<tr>
<td></td>
<td>• --- News in 1.0. ---</td>
</tr>
<tr>
<td></td>
<td>• First version</td>
</tr>
</tbody>
</table>

System requirements

<table>
<thead>
<tr>
<th>Operating system</th>
<th>• iOS 4.0 or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware requirements</td>
<td>• iPhone</td>
</tr>
<tr>
<td></td>
<td>• iPad</td>
</tr>
<tr>
<td></td>
<td>• iPod</td>
</tr>
</tbody>
</table>

T198206; FLIR ResearchIR 3 (CD)

General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
Users who are interested in more advanced scientific applications should choose FLIR ResearchIR Max.

Key features:
Optional Software

General description

- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, matlab or CSV formats
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

To download a 30-day evaluation version, click the following link:


Release notes

Version FLIR ResearchIR 3.2

New features

- --- News in 3.2: ---
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Added Sketch on IR support.
- Improved GigE Ethernet camera compatibility support.
- Improved translation.
- Fixed the delta reading in Fahrenheit.
- Fixed the impact of the zoom parameter in windows settings.
- Various profile and temporal plot fixes.
- Minor bug fixes.
- General performance improvement.
- --- News in 3.1: ---
- New FCF file format embeds session data (measurements and processing filters); FCF files are backward compatible with other native formats (SEQ, FFF, PTW).
- Copy/paste measurements.
- Add a selected frame number to the record in the recording tab.
- AVI export supports measurement and scale selection.
- Export menu reorganized for better clarity.
- Copy to clipboard compatibility with Excel.
- Out-of-range and saturation colors in palette.
- Select visibility of images in results table (all images/only visible/images in current tab).
- Local measurement parameters now saved.
- Improvements and bug fixes in plots.
- Bug fixes in AVI export.
- Other performance improvements and bug fixes.

Shipping information

- FLIR ResearchIR

System requirements

- Operating system
  - Windows XP, 32 bit
  - Windows Vista, 32 bit
  - Windows Vista, 64 bit
  - Windows 7, 32 bit
  - Windows 7, 64 bit
Optional Software

T127597; FLIR ResearchIR 3 (license only)

General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
Users who are interested in more advanced scientific applications should choose FLIR ResearchIR Max.

Key features:

- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time–temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, matlab or CSV formats
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

Download your copy of FLIR ResearchIR here:

http://support.flir.com/researchir

Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR ResearchIR 3.2</th>
</tr>
</thead>
</table>

© 2013, FLIR Systems, Inc.
All rights reserved worldwide.
Optional Software

Release notes

New features

- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Added Sketch on IR support.
- Improved GigE Ethernet camera compatibility support.
- Improved translation.
- Fixed the delta reading in Fahrenheit.
- Fixed the impact of the zoom parameter in Windows settings.
- Various profile and temporal plot fixes.
- Minor bug fixes.
- General performance improvement.
- News in 3.1:
  - New FCF file format embeds session data (measurements and processing filters); FCF files are backward compatible with other native formats (SEQ, FFF, PTW).
  - Copy/paste measurements.
  - Add a selected frame number to the record in the recording tab.
  - AVI export supports measurement and scale selection.
  - Export menu reorganized for better clarity.
  - Copy to clipboard compatibility with Excel.
  - Out-of-range and saturation colors in palette.
  - Select visibility of images in results table (all images/only visible/images in current tab).
  - Local measurement parameters now saved.
  - Improvements and bug fixes in plots.
  - Bug fixes in AVI export.
  - Other performance improvements and bug fixes.

Shipping information

- FLIR ResearchIR scratchcard

System requirements

Operating system

- Windows XP, 32 bit
- Windows Vista, 32 bit
- Windows Vista, 64 bit
- Windows 7, 32 bit
- Windows 7, 64 bit

General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
Users who are interested in more advanced scientific applications should choose FLIR ResearchIR Max.

Key features:

T127597L5; FLIR ResearchIR 3 (license only), 5 user licenses
Optional Software

P/N: 62101-0301
© 2013, FLIR Systems, Inc.
All rights reserved worldwide.

General description

- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, matlab or CSV formats
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

Download your copy of FLIR ResearchIR here:

http://support.flir.com/researchir

Release notes

Version | FLIR ResearchIR 3.2
--- | ---
New features
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Added Sketch on IR support.
- Improved GigE Ethernet camera compatibility support.
- Improved translation.
- Fixed the delta reading in Fahrenheit.
- Fixed the impact of the zoom parameter in windows settings.
- Various profile and temporal plot fixes.
- Minor bug fixes.
- General performance improvement.
- New FCF file format embeds session data (measurements and processing filters); FCF files are backward compatible with other native formats (SEQ, FFF, PTW).
- Copy/paste measurements.
- Add a selected frame number to the record in the recording tab.
- AVI export supports measurement and scale selection.
- Export menu reorganized for better clarity.
- Copy to clipboard compatibility with Excel.
- Out-of-range and saturation colors in palette.
- Select visibility of images in results table (all images/only visible/images in current tab).
- Local measurement parameters now saved.
- Improvements and bug fixes in plots.
- Bug fixes in AVI export.
- Other performance improvements and bug fixes.

Shipping information

- 5 FLIR ResearchIR scratchcards

System requirements

- Windows XP, 32 bit
- Windows Vista, 32 bit
- Windows Vista, 64 bit
- Windows 7, 32 bit
- Windows 7, 64 bit

http://www.flir.com
General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D. Users who are interested in more advanced scientific applications should choose FLIR ResearchIR Max.

Key features:

- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, Matlab or CSV formats.
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

Download your copy of FLIR ResearchIR here:

http://support.flir.com/researchir

Release notes

Version

FLIR ResearchIR 3.2
Optional Software

P/N: 62101-0301
© 2013, FLIR Systems, Inc.
All rights reserved worldwide.

Release notes

New features

- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Added Sketch on IR support.
- Improved GigE Ethernet camera compatibility support.
- Improved translation.
- Fixed the delta reading in Fahrenheit.
- Fixed the impact of the zoom parameter in windows settings.
- Various profile and temporal plot fixes.
- Minor bug fixes.
- General performance improvement.
- --- News in 3.1: ---
- New FCF file format embeds session data (measurements and processing filters); FCF files are backward compatible with other native formats (SEQ, FFF, PTW).
- Copy/paste measurements.
- Add a selected frame number to the record in the recording tab.
- AVI export supports measurement and scale selection.
- Export menu reorganized for better clarity.
- Copy to clipboard compatibility with Excel.
- Out-of-range and saturation colors in palette.
- Select visibility of images in results table (all images/only visible/images in current tab).
- Local measurement parameters now saved.
- Improvements and bug fixes in plots.
- Bug fixes in AVI export.
- Other performance improvements and bug fixes.

Shipping information

- 10 FLIR ResearchIR scratchcards

System requirements

Operating system

- Windows XP, 32 bit
- Windows Vista, 32 bit
- Windows Vista, 64 bit
- Windows 7, 32 bit
- Windows 7, 64 bit

T198209; FLIR ResearchIR 3 Max (CD)

General description

Note: This release is not intended for the US region. FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D. FLIR ResearchIR Max contains all the features of FLIR ResearchIR, plus features for advanced thermal analysis.

Key features:
Optional Software

General description

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Multiple camera support for parallel recording.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time–temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, matlab or CSV formats
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

To download a 30-day evaluation version, click the following link:


Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR ResearchIR Max 3.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>New features</td>
<td>--- News in 3.2: ---</td>
</tr>
<tr>
<td></td>
<td>Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.</td>
</tr>
<tr>
<td></td>
<td>MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.</td>
</tr>
<tr>
<td></td>
<td>Added Sketch on IR support.</td>
</tr>
<tr>
<td></td>
<td>Improved GigE Ethernet camera compatibility support.</td>
</tr>
<tr>
<td></td>
<td>Improved translation.</td>
</tr>
<tr>
<td></td>
<td>Fixed the delta reading in Fahrenheit.</td>
</tr>
<tr>
<td></td>
<td>Fixed the impact of the zoom parameter in windows settings.</td>
</tr>
<tr>
<td></td>
<td>Various profile and temporal plot fixes.</td>
</tr>
<tr>
<td></td>
<td>Improved interface for SC8400 and SC6500 cooled science cameras – requires an additional module.</td>
</tr>
<tr>
<td></td>
<td>Improved interface for SC5000 and SC7000 cooled science cameras – requires an additional module.</td>
</tr>
<tr>
<td></td>
<td>Added US cooled science camera interface – requires an additional module.</td>
</tr>
<tr>
<td></td>
<td>Minor bug fixes.</td>
</tr>
<tr>
<td></td>
<td>General performance improvement.</td>
</tr>
</tbody>
</table>

Shipping information

- FLIR ResearchIR Max

System requirements

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Windows XP, 32 bit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Windows Vista, 32 bit</td>
</tr>
<tr>
<td></td>
<td>Windows Vista, 64 bit</td>
</tr>
<tr>
<td></td>
<td>Windows 7, 32 bit</td>
</tr>
<tr>
<td></td>
<td>Windows 7, 64 bit</td>
</tr>
</tbody>
</table>
Optional Software

T127598; FLIR ResearchIR 3 Max (license only)

General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR Max contains all the features of FLIR ResearchIR, plus features for advanced thermal analysis.

Key features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Multiple camera support for parallel recording.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time–temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, matlab or CSV formats
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

Download your copy of FLIR ResearchIR MAX here:
http://support.flir.com/researchirmax

Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR ResearchIR Max 3.2</th>
</tr>
</thead>
</table>

Optional Software

Release notes

New features

- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Added Sketch on IR support.
- Improved GigE Ethernet camera compatibility support.
- Improved translation.
- Fixed the delta reading in Fahrenheit.
- Fixed the impact of the zoom parameter in windows settings.
- Various profile and temporal plot fixes.
- Improved interface for SC400 and SC6500 cooled science cameras – requires an additional module.
- Improved interface for SC5000 and SC7000 cooled science cameras – requires an additional module.
- Added US cooled science camera interface – requires an additional module.
- Minor bug fixes.
- General performance improvement.

Shipping information

- FLIR ResearchIR Max scratch card

System requirements

Operating system

- Windows XP, 32 bit
- Windows Vista, 32 bit
- Windows Vista, 64 bit
- Windows 7, 32 bit
- Windows 7, 64 bit

General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
FLIR ResearchIR Max contains all the features of FLIR ResearchIR, plus features for advanced thermal analysis.

Key features:
Optional Software

General description

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Multiple camera support for parallel recording.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time–temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, Matlab or CSV formats.
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

Download your copy of FLIR ResearchIR MAX here:

http://support.flir.com/researchirmax

Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR ResearchIR Max 3.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>New features</td>
<td></td>
</tr>
<tr>
<td></td>
<td>--- News in 3.2: ---</td>
</tr>
<tr>
<td></td>
<td>Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.</td>
</tr>
<tr>
<td></td>
<td>MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.</td>
</tr>
<tr>
<td></td>
<td>Added Sketch on IR support.</td>
</tr>
<tr>
<td></td>
<td>Improved GigE Ethernet camera compatibility support.</td>
</tr>
<tr>
<td></td>
<td>Improved translation.</td>
</tr>
<tr>
<td></td>
<td>Fixed the delta reading in Fahrenheit.</td>
</tr>
<tr>
<td></td>
<td>Fixed the impact of the zoom parameter in windows settings.</td>
</tr>
<tr>
<td></td>
<td>Various profile and temporal plot fixes.</td>
</tr>
<tr>
<td></td>
<td>Improved interface for SC8400 and SC6500 cooled science cameras – requires an additional module.</td>
</tr>
<tr>
<td></td>
<td>Improved interface for SC5000 and SC7000 cooled science cameras – requires an additional module.</td>
</tr>
<tr>
<td></td>
<td>Added US cooled science camera interface – requires an additional module.</td>
</tr>
<tr>
<td></td>
<td>Minor bug fixes.</td>
</tr>
<tr>
<td></td>
<td>General performance improvement.</td>
</tr>
</tbody>
</table>

Shipping information

- 5 FLIR ResearchIR Max scratchcards

System requirements

Operating system

- Windows XP, 32 bit
- Windows Vista, 32 bit
- Windows Vista, 64 bit
- Windows 7, 32 bit
- Windows 7, 64 bit
Optional Software

General description

Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
FLIR ResearchIR Max contains all the features of FLIR ResearchIR, plus features for advanced thermal analysis.

Key features:

- Pre/post-recording.
- Mathematical processing toolbox.
- Image filtering toolbox.
- Multiple camera support for parallel recording.
- Radiometric digital detail enhancement (DDE) improves dramatically the understanding of the thermal image, while maintaining radiometric measurement accuracy.
- View, record and store images at high speed.
- Post-processing of fast thermal events.
- Generate time-temperature plots from live images or recorded sequences.
- Advanced start/stop recording conditions.
- Unlimited number of analysis functions (spot, line, area).
- File organizer with quick collection and preview of sequences.
- Zoom and pan allows a closer look.
- Multiple user-configurable tabs for live images, recorded images or plots.
- Export images and results to bitmap, video, Excel, matlab or CSV formats
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Sketch on IR support.

FLIR ResearchIR in combination with a FLIR thermal imaging camera is the perfect solution for any R&D or scientific application. It will allow researchers in all fields to make the smallest of temperature differences visible and to thoroughly analyze the thermal process in real-time.

Typical applications:

- The transient behavior of a power supply or one of its components during power up when altering the load or any other parameter.
- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

Download

Download your copy of FLIR ResearchIR MAX here:

http://support.flir.com/researchirmax

Release notes

<table>
<thead>
<tr>
<th>Version</th>
<th>FLIR ResearchIR Max 3.2</th>
</tr>
</thead>
</table>


Optional Software

Release notes

New features

- --- News in 3.2: ---
- Local scale gain control on measurement – automatically adjusts the contrast in a specific part of the image.
- MSX (Multi-Spectral Enhancement) – embosses digital image detail onto the thermal image.
- Added Sketch on IR support.
- Improved GigE Ethernet camera compatibility support.
- Improved translation.
- Fixed the delta reading in Fahrenheit.
- Fixed the impact of the zoom parameter in windows settings.
- Various profile and temporal plot fixes.
- Improved interface for SC8400 and SC6500 cooled science cameras – requires an additional module.
- Improved interface for SC5000 and SC7000 cooled science cameras – requires an additional module.
- Added US cooled science camera interface – requires an additional module.
- Minor bug fixes.
- General performance improvement.

Shipping information

- 10 FLIR ResearchIR Max scratchcards

System requirements

Operating system

- Windows XP, 32 bit
- Windows Vista, 32 bit
- Windows Vista, 64 bit
- Windows 7, 32 bit
- Windows 7, 64 bit

T198292; Upgrade previous version to FLIR ResearchIR 3

General description

Upgrade previous version of ThermaCAM Researcher Professional and FLIR ResearchIR to FLIR ResearchIR 3.2, for details see the product data for the current version. Note: This release is not intended for the US region.

FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.

Users who are interested in more advanced scientific applications should choose FLIR ResearchIR Max.
Optional Software

Download

Release notes
Version FLIR ResearchIR 3.2

Shipping information
• FLIR ResearchIR

T198291; Upgrade previous version to FLIR ResearchIR 3 Max

General description
Upgrade previous version of ThermaCAM Researcher Professional and FLIR ResearchIR to FLIR ResearchIR Max 3.2, for details see the product data for the current version.
Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
FLIR ResearchIR Max contains all the features of FLIR ResearchIR, plus features for advanced thermal analysis.

Download

Release notes
Version FLIR ResearchIR Max 3.2

Shipping information
• FLIR ResearchIR Max

v1.03
T198290; Upgrade FLIR ResearchIR 3 to FLIR ResearchIR 3 Max

General description
Upgraded FLIR ResearchIR 3.x to FLIR ResearchIR Max 3.2, for details see the product data for the current version.
Note: This release is not intended for the US region.
FLIR ResearchIR is aimed at R&D and science professionals who use thermal imaging cameras with a cooled or uncooled detector. FLIR ResearchIR makes the most of a thermal imaging camera, and allows high-speed recording and advanced thermal pattern analysis. FLIR ResearchIR is the perfect tool for industrial R&D.
FLIR ResearchIR Max contains all the features of FLIR ResearchIR, plus features for advanced thermal analysis.

Download

Release notes
Version FLIR ResearchIR Max 3.2

Shipping information
- FLIR ResearchIR Max
Camera with built-in IR lens f=18 mm (25°)

Optical axis

UNC 1/4"-20

© 2012, FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional drawings are not to scale. Use of this drawing in a format that increases the magnification of any part is not intended and will not be permitted without the express written consent of FLIR Systems, Inc. FLIR Systems, Inc. assumes no responsibility for any use of this drawing other than for the purposes for which this drawing is intended. Diversion contrary to US export and sanctions regulations is prohibited. Please refer to exportquestions@flir.com with any questions.
Camera with Lens IR f=4 mm (90°) incl support

Basic Dimensions FLIR T4xx
Camera with Lens IR f=10 mm (45°)

Basic Dimensions FLIR T4xx
Camera with Lens IR f=30 mm (15°)

Basic Dimensions FLIR T4xx

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional tolerances shall be ruled as per applicable MIL/ASTM/ASME standards. All FLIR products are manufactured under controlled conditions of cleanliness and quality. All FLIR products are covered by FLIR's warranty and return policy. FLIR Systems, Inc. assumes no responsibility for the use or misuse of this equipment or for any results obtained from the use of this equipment. FLIR Systems, Inc. reserves the right to improve designs at any time without notice. All FLIR products are manufactured under the quality system requirements of ISO 9001 and are subject to continuous improvement. Diversion contrary to US law is prohibited. FLIR Systems, Inc. is registered to the ISO 9001:2000 standard. Export Control: FLIR Systems, Inc. products may be subject to relevant U.S. export control regulations and may require a license from the U.S. or another country to import or export. For more information, please refer to the Export Questions web site: exportquestions@flir.com.

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional tolerances shall be ruled as per applicable MIL/ASTM/ASME standards. All FLIR products are manufactured under controlled conditions of cleanliness and quality. All FLIR products are covered by FLIR's warranty and return policy. FLIR Systems, Inc. assumes no responsibility for the use or misuse of this equipment or for any results obtained from the use of this equipment. FLIR Systems, Inc. reserves the right to improve designs at any time without notice. All FLIR products are manufactured under the quality system requirements of ISO 9001 and are subject to continuous improvement. Diversion contrary to US law is prohibited. FLIR Systems, Inc. is registered to the ISO 9001:2000 standard. Export Control: FLIR Systems, Inc. products may be subject to relevant U.S. export control regulations and may require a license from the U.S. or another country to import or export. For more information, please refer to the Export Questions web site: exportquestions@flir.com.
Camera with Lens IR f=76 mm (6°) incl support

Lens support optional

Basic Dimensions FLIR T4xx

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of FLIR Systems, Inc. Specifications subject to change without further notice. Dimensions are approximate and may be subject to tolerance limits. Design, appearance, and product availability are subject to change without notice. Export regulations may apply. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.
Camera with Close-up lens 2X (50 µm)

Basic Dimensions FLIR T4xx
Camera with Close-up lens 4X (100 µm)

Basic Dimensions FLIR T4xx

© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is subject to tolerance. Discrepancies may be subject to material substitutions. Material substitutions may be made without notice. This is a reproduction of a drawing that may be out of date. For the most current information, please refer to the FLIR Systems website. Diversion contrary to US law is prohibited. Please refer to exportquestions@flir.com with any questions.