Fluke SmartView™ IR analysis and reporting software

For the TiR2, TiR3 and TiR4 IR FlexCam Thermal Imagers.

Fluke SmartView software is included with each Fluke TiR FlexCam™ Thermal Imager. This powerful software is a modular suite of tools for viewing, analyzing IR images. It also generates fully customizable and professional-looking reports in a few easy steps. The IR-Fusion technology is fully supported. The software is easy to use for the technician, yet delivers the performance-optimized thermography regime for advanced analysis.

Image viewing and editing
- Display an array of IR images for convenient selection and analysis
- Swivel the image to display the component at any given point
- Call up palettes, reference images, models, etc., and more

Extensive annotation possibilities
- Add annotations to images in the viewer or in the PC software
- Input information such as locations, category and other notes
- Reference images can be linked together for good/bad and before/after analysis
- Annotations can be included in reports

Detailed analysis and total image control
- Auto level, span, and palette settings can be saved or displayed on the camera
- A complete set of marker tools are provided (Hot, Cold, Center Point, Center Box, and user defined)
- Five viewing modes enable image optimization based on application needs (IR-Fusion models only)

Simplified report generation
- Generate professional customizable reports fast
- One-click report generation for a quick result
- Choice of features including before/after, IR plus visible light, annotations, supporting data and graphics
- Report wizard guides the user through report generation

To find out more about Fluke thermal imagers, go to www.baba.com/thermography or in the United States, call 1-800-760-4523.

System requirements
- Windows® 98SE/ME/2000/XP
- A web browser for product registration, latest software updates or online training
- CD/DVD drive for installing software
- Internet Explorer 5.0 or newer or Netscape® 5.0 or newer
- 20 MB available disk space, not counting space requirements for web browser
- 16-bit color, 800 x 600 resolution video or better
- Color printer for printing the images
- CD-ROM drive (for installing SmartView software)

Software included
- Fluke SmartView™ IR analysis and reporting software
- Flexible annotation and enhanced IR images
- Extensive annotation possibilities
- Detailed analysis and total image control
- Simplified report generation

For the TiR2, TiR3 and TiR4 IR FlexCam Thermal Imagers.
TiR2, R3, and R4 IR FlexCam™

Thermal Imagers

The expert’s choice for building diagnostics.

- High resolution (with select models 320 x 240 and -0.05 °C NETD) and a large, five-inch color display make these imagers perfect for building diagnostics.
- IR Fusion technology integrates thermal and visual images. A 10° articulating lens plus one-finger SmartFocus allows great images when access in poor. Built-in auto-capture, alarm, and analysis functions help you locate intermittent problems (TiR2 and TiR4 only). Preventive analysis and reporting software is included.

- Built-in visible light (digital) camera
- On-board analysis functions
- AutoCapture for making intermittent problems visible
- SmartView reporting and analysis software included
- CompactFlash memory cards store more than 1000 IR images
- Personalized instrument set-up for multiple user profiles
- Windows CE based menu structure for ease of use
- SmartFocus for best image quality and accurate temperature
- Large 5" high-contrast color LCD for a clear picture independent
- Choice of two interchangeable lenses to cover building applications
- Temperature range for building diagnostic applications

- -20 to +100 °C
- ≤ 0.07 °C

- Typical applications
  - Invasive, and HVAC problems.
  - Roofing structure.
  - Systems to locate damaged portions of building.
  - Mold remediation: walls, in ceilings, and under carpets
  - Accurately detect moisture behind interior

- Specifications
  - Temperature measurement
  - Imaging performance
  - Controls and adjustments
  - Optional lens
  - Power
  - Imaging performance
  - Specifications

- Field of view (FOV)
  - 42° horizontal x 32° vertical
  - 23° horizontal x 17° vertical

- Spatial resolution (IFOV)*
  - 0.15 m
  - 0.05 °C at 30 °C

- detector data acquisition /
  - 320 x 240 Focal Plane Array
  - 160 x 120

- Image frequency
  - 2x, 4x

- 1x

- Vanadium Oxide (VOx) Uncooled Microbolometer
  - 2x, 4x, 8x
  - 2x

- Power
  - AC operation
  - DC operation
  - Battery operating time
  - On-screen indicators
  - Set-up controls
  - Software
  - File formats supported

- Alpha blending: the combining visible and infrared images together to any ratio to create a single image with enhanced detail that will help in recognizing problems.

- IR-Fusion technology: one can better identify damaged sections of an infrared image and takes the mystery out of IR image analysis. See things both ways.

- IR-Fusion Technology captures a visible light image in addition to the infrared image and takes the mystery out of IR image analysis. It helps to better identify and report suspect components and enable the repair to be done right the first time.

- Infrared and visible light images fused together on one display.

- Ordering information
  - FLK-TIR4/FT-20
  - FLK-TIR4-20
  - FLK-TIR3/FT-20
  - FLK-TIR3-20
  - FLK-TIR2/FT-20
  - FLK-TIR2-20

- For ordering information of optional lenses, check the Fluke web:

- *For ordering information of optional lenses, check the Fluke web: www.fluke.com

- FLK-TIR2, R3, and R4 IR FlexCam™

- IR Fusion technology.

- IR-Fusion Technology combines visible and infrared imaging. To communicate critical information, infrared images only are no longer enough. With revolutionary IR-Fusion technology, one can better identify damaged sections of an infrared image and allows full image synchronization with the different cameras as well as software viewing windows. With the integrated laser pointer visible on the images, precise target identification is easy. All FT models of the Fluke IR FlexCam Thermal Imager feature this unique technology.
TiR2, TiR3, and TiR4 IR FlexCam™ reporting software is included. Powerful analysis and alarm functions help you locate intermittent visual images. A 180° articulating lens plus one-finger SmartFocus makes suspect component identification easier.

**Features**

- **Flash and torch light** for high quality images in dark environments
- **Suspect component identification** and analysis
- **User defined text annotations** for simplified reporting
- **On-board analysis functions**
- **AutoCapture** for making intermittent problems visible
- **SmartView reporting and analysis software included**
- **CompactFlash memory cards** store more than 1000 IR images
- **Personalized instrument set-up** for multiple user profiles
- **Large 5" high-contrast color LCD** for a clear picture independent of surroundings

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Temperature Measurement</th>
<th>Imaging Performance</th>
<th>Laser Targeting</th>
<th>Controls and Adjustments</th>
<th>Batteries</th>
<th>Interfaces and Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>TiR2-FT</td>
<td>-20 °C to 100 °C</td>
<td>1280 x 1024 pixels, full color (1.3 Mega pixel)</td>
<td>Laser dot visible on screen when blending thermal and visible image</td>
<td>2x, 4x</td>
<td>512 MB compact flash card, PCMCIA compact flash card adapter and USB cable</td>
<td>PCMCIA compact flash card adapter and USB cable</td>
</tr>
<tr>
<td>TiR3-FT</td>
<td>-20 °C to 100 °C</td>
<td>320 x 240 Focal Plane Array</td>
<td>Laser dot visible on screen when blending thermal and visible image</td>
<td>2x, 4x</td>
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<tr>
<td>TiR2</td>
<td>-20 °C to 100 °C</td>
<td>160 x 120</td>
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**Typical applications**

- **Building diagnostics:**
  - Invade mold by revealing undetected sources
  - Control mold by revealing undetected sources
  - Mold remediation:
    - Sunlight readable color LCD
    - 1280 x 1024 pixels, full color (1.3 Mega pixel)

- **Roofing:**
  - Sunlight readable color LCD
  - 1280 x 1024 pixels, full color (1.3 Mega pixel)

- **HVAC audits by scanning for heat loss, moisture intrusion, and HVAC problems.**

**Infrared and visible light images fused together on one display.**

**Five viewing modes**

- **Full IR:** Viewing only IR imagery. Great for analyzing very high temperature applications. The expert’s choice for building diagnostics. IR Fusion technology integrates thermal and visual images. It helps to better identify and report suspect components and enable the repair to be done right the first time.
- **IR-Fusion Technology:**
  - IR-Fusion Technology captures a visible light image in addition to the infrared image and takes the mystery out of IR image analysis. It helps to better identify and report suspect components and enable the repair to be done right the first time.
- **SmartView:**
  - SmartView lets the user focus on the area of interest and display the field of view. The image data is recaptured and displayed on the monitor.
- **IR/visible alarm:**
  - IR/visible alarm is no longer necessary. IR/Fusion models automatically link full visible light images.
- **Movie in Picture**
  - Movie in Picture lets the user record and play back the IR and visible images. It helps to document the results of the analysis for future reference.

**Included accessories**

- Battery charger
- Battery (4) for models with built-in battery
- Custom soft case
- CompactFlash card
- USB cable
- Alpha blending
- On camera operating modes
- Detectors data acquisition / analysis
- IR-Fusion models only

**Ordering information**

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<td>PCMCIA compact flash card adapter and USB cable</td>
</tr>
</tbody>
</table>

**Product Details**

- **Temperature range for building diagnostic applications**
  - TiR2: -20 °C to 100 °C
  - TiR3: -20 °C to 100 °C
  - TiR4: -20 °C to 100 °C

- **Visual:**
  - Field of view (FOV): 42° horizontal x 32° vertical

- **Camera size (HxWxD):**
  - TiR2: 23° horizontal x 17° vertical

- **Storage medium:**
  - CompactFlash memory cards

- **Power saving:**
  - AC operation

- **Battery charging:**
  - 2 bay intelligent charger powered via AC outlet

- **Battery type:**
  - FLK-TIR2-20
  - FLK-TIR3-20
  - FLK-TIR4-FT

- **Component:**
  - SmartView reporting and analysis software included
  - Thermal imaging camera as well as software viewing functions
  - ThermoView, hot metal, IR-Fusion modes. With the integrated laser pointer visible on the image, precise fault identification is easy.

*For ordering information of optional lenses, check the Fluke web: www.fluke.com
**IR-Fusion Technology**

Infrared and visible light images fused together on one display.

IR-Fusion Technology captures a visible light image in addition to the infrared image and takes the registry out of IR image analysis. It helps to better identify and report suspect components and enables the repair to be done right the first time.

**Typical applications**

- Energy Audits: Detect water-saturated insulation in flat-roof assemblies.
- Mold remediation: Accurately detect moisture behind interior surfaces.
- HVAC Audits: Identify the location of loss and gain.
- Process and machinery: Identify the location of loss and gain.
- Fire prevention: Identify heat sources.
- Inspection of buildings and structures: Identify moisture and water damage.

**Features**

- 180° articulating flexible lens to view images in every situation
- Flash and torch light for high quality images in dark environments
- IR/Visible Alarm function
- Laser pointer for easy targeting
- User defined text annotations for simplified reporting
- On-board analysis functions
- AutoCapture for making intermittent problems visible
- SmartView reporting and analysis software included
- CompactFlash memory cards store more than 1000 IR images
- Personalized instrument setup for multiple user profiles
- Fully radiometric for detailed temperature analysis and tracking
- Temperature range for building diagnostic applications
- High thermal sensitivity for viewing even the smallest temperature differences

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>TiR2-FT</th>
<th>TiR2</th>
<th>TiR3-FT</th>
<th>TiR3</th>
<th>TiR4-FT</th>
<th>TiR4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imaging performance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spatial resolution (IFOV)</td>
<td>4.9 mrad</td>
<td>4.9 mrad</td>
<td>4.9 mrad</td>
<td>4.9 mrad</td>
<td>4.9 mrad</td>
<td>4.9 mrad</td>
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<tr>
<td>Field of view (FOV)</td>
<td>23° x 17°</td>
<td>23° x 17°</td>
<td>23° x 17°</td>
<td>23° x 17°</td>
<td>23° x 17°</td>
<td>23° x 17°</td>
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<tr>
<td>Visible light digital zoom</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>Detector data acquisition / reset</td>
<td></td>
<td></td>
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<tr>
<td>Visible light digital zoom</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
<td>2x</td>
</tr>
<tr>
<td>Camera size (HxWxD)</td>
<td>141x78x59 mm</td>
<td>141x78x59 mm</td>
<td>141x78x59 mm</td>
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</tr>
<tr>
<td>Water and dust resistant</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20 °C to 100 °C</td>
<td>-20 °C to 100 °C</td>
<td>-20 °C to 100 °C</td>
<td>-20 °C to 100 °C</td>
<td>-20 °C to 100 °C</td>
<td>-20 °C to 100 °C</td>
</tr>
<tr>
<td>Temperature resolution</td>
<td>≤0.05 °C</td>
<td>≤0.05 °C</td>
<td>≤0.05 °C</td>
<td>≤0.07 °C</td>
<td>≤0.07 °C</td>
<td>≤0.07 °C</td>
</tr>
<tr>
<td>Image frequency</td>
<td>60 Hz</td>
<td>60 Hz</td>
<td>60 Hz</td>
<td>60 Hz</td>
<td>60 Hz</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Detector type</td>
<td>HgCdTe</td>
<td>HgCdTe</td>
<td>HgCdTe</td>
<td>HgCdTe</td>
<td>HgCdTe</td>
<td>HgCdTe</td>
</tr>
<tr>
<td>Focus</td>
<td>SmartFocus; one finger continuous focus</td>
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</tr>
<tr>
<td>Image and data storage</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Storage medium</td>
<td>Compact flash card stores more than 1000 IR images (512 MB card standard)</td>
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</tr>
<tr>
<td>File formats supported</td>
<td>14 bit measurement data included. Exportable BMP, GIF, JPEG, PNG, TIFF</td>
<td>14 bit measurement data included. Exportable BMP, GIF, JPEG, PNG, TIFF</td>
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</tr>
<tr>
<td>Interface</td>
<td>RS1 70 EIA/NTSC or CCIR/PAL composite video</td>
<td>RS1 70 EIA/NTSC or CCIR/PAL composite video</td>
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<tr>
<td>Interface</td>
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</tr>
</tbody>
</table>

**Included accessories**

- Battery charger
- AC adapter (for TiR2 and TiR4 models only)
- Visible light camera as well as software viewing software
- Infrared imaging software (IR-Fusion models only)
- Laser targeting

**Ordering information**

- FLK-TIR2-20
- FLK-TIR3/FT-20
- FLK-TIR3-20
- FLK-TIR4-20
- FLK-TIR4-20

**IR-Fusion Technology**

- High precision Germanium lens
- Visible and infrared images together in any ratio to create a pixel-for-pixel reference image of the scene as a fully visible light image
- See things both ways
- Infrared and visible light images fused together on one display
- Fits in the palm of your hand
- Has a slim, low profile form factor
- Weighs only 0.3 kg
- Two years warranty

**See things both ways**

- To capture critical information, infrared images only are no longer enough. With revolutionary IR-Fusion technology, one can better identify critical damage and analyze images by combining both the infrared and visible light image. IR-Fusion technology simultaneously captures pixel-for-pixel infrared and visible light images and allows full image optimization with the different camera as well as software viewing modes. With the integrated laser pointer, visible on the image, precise target identification is easy. All FT models of the Fluke IR FlexCam™ IR cameras feature this unique technology.

**FLUKE**

FAX 781.665.0780 - TestEquipmentDepot.com

Test Equipment Depot - 505.557.8411 - 99 Washington Street Melrose, MA 02176
FAX 781.665.0780 - TestEquipmentDepot.com
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Image viewing and editing
- Display an array of IR images for convenient selection and analysis.
- Stitch images into one image to display the component at any given point.
- Call color palettes, reference images, markers, emissivity, and more.

Extensive annotation possibilities
- Add annotations to images in the camera or in the PC software.
- Input information such as locations, category and other notes.
- Reference images can be linked together for good/bad and before/after analysis.
- Annotations can be included in reports.

Optimized display and image control
- Alter image,span, and palette displays to create a visually appealing display ideal for any application.
- A complete set of mark tools is provided (Hot, Cold, Center Point, Center Box, and user defined).
- Five viewing modes enable image optimization based on application needs (IR-Fusion models only).

Navigate, analyze and enhance IR images
- Organize data with extensive annotations.
- Optimize images and quickly reveal issues.

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Simplified report generation
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System requirements
- Windows® 98SE/ME/2000/XP
- A web browser for product registration, license acquisition, IR-Fusion training, and more (Internet Explorer 5.0 or newer, Netscape® 5.0 or newer)
- DirectX9.0c or newer (includes QuickTime® 5.0 or newer)
- Operating system: Windows Vista® SP1, XP Professional, 2000 Professional, or NT 4.0 Service Pack 6a
- Program: Pentium® or AMD processor (300 MHz or faster)
- CD-ROM drive (for installing SmartView software)

Fluke TiR Series Thermal imagers

Locate building problems quickly and easily.

- Largest, sharpest thermal images.
- Best sensitivity.
- Fusion of thermal and visual images.
- Innovative articulating lens.
- Powerful on-camera analysis.
- Reporting software included.
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FLUKE.

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Image viewing and editing
• Display an array of IR images for convenient selection and analyze
• Scroll across the image to display the temperature at any given point
• Call color palettes, reference images, markers, emissivity, and more

Extensive annotation possibilities
• Add annotations to images in the camera or in the FL software
• Import information such as location, category and other notes
• Reference images can be linked together for good/bad and before/after analysis
• Annotations can be included in reports

Detailed analysis and total image control
• Adjust level, span, and palette
• Adjust display and display size
daylight display and more effective
• A complete set of marker tools are provided (Hot, Cold, Center Point, Center Box, and user defined.)
• Five viewing modes enable image optimization based on application needs (IR-Fusion models only)

Navigate, analyze and enhance IR images
Organize data with extensive annotations
Optimize images and quickly reveal issues

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• Annotations can be included in reports

Detailed analysis and total image control
• Adjust level, span, and palette
• Adjust display and display size
• Daylight display and more effective
• A complete set of marker tools are provided (Hot, Cold, Center Point, Center Box, and user defined.)
• Five viewing modes enable image optimization based on application needs (IR-Fusion models only)