

Part number:

49001-2301

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Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.



General description

The E-Series' model FLIR E50 offers an outstanding solution for professional thermographers conducting electrical and mechanical inspections.

Key features:

- Digital camera, 3.1 Mpixel
- Laser pointer
- Picture-in-Picture (scalable)
- Thermal Fusion (interval, above/below)
- Text annotation
- Delta T – Difference Temperature
- Zoom 4x
- 6 color palettes
- External window correction
- FLIR Tools software

Unmatched quality, outstanding ease of use, excellent ergonomics, lightweight and small!

Imaging and optical data

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV)	25° × 19°
Minimum focus distance	0.4 m (1.31 ft.)
Focal length	18 mm (0.7 in.)
Spatial resolution (IFOV)	1.82 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	1–4x continuous
Panning	Panning over zoomed-in images

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 × 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

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Image presentation modes	
Picture in Picture	Scalable IR area on visual image
Measurement	
Object temperature range	-20°C to +120°C (-4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
Measurement analysis	
Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Isotherm	Detect high/low temperature/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images; simultaneous storage of IR and visual images
Image annotations	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> Separate PC software with extensive report generation
Video recording in camera	
Non-radiometric IR-video recording	MPEG-4 to memory card
Video streaming	
Radiometric IR-video streaming	Full dynamic to PC using USB
Non-radiometric IR-video streaming	Uncompressed colorized video using USB
Digital camera	
Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and one LED light
Digital camera, focus	Fixed focus
Built-in digital lens data	FOV 53° × 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)

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Data communication interfaces

SD Card	One card slot for removable SD memory cards
USB	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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

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
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	4 h to 90% capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
AC operation	AC adapter, 90–260 VAC input, 12 V output to camera
Start-up time from sleep mode	Instant on

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	<ul style="list-style-type: none"> • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 B (Emission)
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	Power supply: CE/PSE/EN/UL/CSA 60950-1

Physical data

Camera weight, incl. battery	0.825 kg (1.82 lb.)
Camera size (L × W × H)	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
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

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- Hard transport case
- Infrared camera with lens
- Battery
- Calibration certificate
- Camera lens cap
- Downloads brochure
- FLIR Tools software CD-ROM
- Handstrap
- Memory card
- Power supply, incl. multi-plugs
- Printed Getting Started Guide
- Printed Important Information Guide
- Service & training brochure
- USB cable
- User documentation CD-ROM
- Video cable
- Warranty extension card

Optional Accessories

- 1196961 IR lens, f = 30 mm, 15° incl. case
- 1196960 IR lens, f = 10 mm, 45° incl. case
- T910814 Power supply, incl. multi plugs
- T910737 Memory card micro-SD with adapters
- 1910423 USB cable Std A <-> Mini-B
- 1910490 Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582 Video cable
- T197752 Battery
- T197935 Transport case Exx
- T197926 Tripod Adapter
- T127100 Sun shield
- T198125 Battery charger, incl. power supply with multi plugs Exx
- T911087 Pouch for FLIR Exx series
- T198113 IR lens, 76 mm (6°) with case and mounting support for Exx
- 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
- DSW-10000 FLIR IR Camera Player
- T198206 FLIR ResearchIR 3.1
- T198206L5 FLIR ResearchIR 3.1, 5 user licenses
- T198206L10 FLIR ResearchIR 3.1, 10 user licenses
- T198209 FLIR ResearchIR Max 3.1
- T198209L5 FLIR ResearchIR Max 3.1, 5 user licenses
- T198209L10 FLIR ResearchIR Max 3.1, 10 user licenses
- T198292 Upgrade previous version to FLIR ResearchIR 3.1
- T198291 Upgrade previous version to FLIR ResearchIR Max 3.1
- T198290 Upgrade FLIR ResearchIR 3.x to FLIR ResearchIR Max 3.1

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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)	1.31 mrad/0.82 mrad
F-number	1.3
Lens note	When two pieces of data are separated by "/" the first piece of data is for T/B200 and T/B250 and the second piece of data is for T/B360, T/B400 and A320/A325
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

v1.02

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.)
Spatial resolution (IFOV)	3.93 mrad/2.45 mrad
F-number	1.3
Lens note	When two pieces of data are separated by "/" the first piece of data is for T/B200 and T/B250 and the second piece of data is for T/B360, T/B400 and A320/A325
Weight	0.105 kg (0.231 lb.), incl. two lens caps

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Technical data

Size (L x D)	38 x 47 mm (1.5 x 1.9 in.)
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Shipping information

- Lens
- Lens case

v1.01

T910814; Power supply, incl. multi plugs



General description

FLIR P/B/SC6xx and FLIR GF3xx series:
Power supply, including multiple plugs, to charge the battery when it is inside or outside of the camera.

FLIR T6xx and FLIR Exx series:
Power supply, including multiple plugs, to charge the battery when it is inside the camera or in the battery charger.

Technical data

AC operation	100–240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Cable length	1.98 m (6.5 ft.)

Shipping information

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

v1.03

T910737; Memory card micro-SD with adapters



General description

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

Technical data

Memory card, size	At least 2 GB
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Shipping information

- micro-SD
- Adapter to miniSD Card
- Adapter from miniSD Card to SD memory card

v1.03

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

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

v1.02

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.)
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v1.01

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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)

v1.01

T197752; Battery



General description

High capacity battery for the IR camera.

Technical data

Battery type	Rechargeable Li Ion battery
Battery voltage	3.7 V
Battery capacity	4.4 Ah, at +20°C (+68°F)
Charging temperature	0°C to +45°C (+32°F to +113°F)
Battery storage temperature range	-40°C to +70°C (-40°F to +158°F)
Weight	0.11 kg (0.24 lb.)
Size (L x W x H)	78 x 40 x 22 mm (3.1 x 1.6 x 0.9 in.)

v1.03

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T197935; Transport case Exx



General description

Rugged, watertight plastic shipping case for FLIR i/bXX. Holds all items neatly and securely. The case can be locked with padlocks and features a breather valve to prevent pressure build-up in airplane cargo holds.

v1.0

T197926; Tripod Adapter



General description

Tripod adapter, necessary accessory to be able to mount the camera on a tripod.

Technical data

Size (L x W x H) 62x 50 x 23 mm (2.5 x 2.0 x 0.9 in.)

Color Black

Shipping information

- Tripod Adapter

v1.01

T127100; Sun shield



General description

Sunshield for the FLIR Exx series, to increase visibility of the LCD.

Technical data

Size (L x W x H) 40 x 74 x 70 mm (1.6 x 2.9 x 2.8 in.)

Material Plastic

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Technical data

Color	Black
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Shipping information

- Sun shield

v1.01

T198125; Battery charger, incl. power supply with multi plugs Exx



General description

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

Technical data

AC operation	100-240 VAC, 50/60 Hz, 12 VDC out
Power	3000 mA at 12 VDC
Size (L x W x H)	133 x 86 x 51 mm (5.3 x 3.4 x 2.0 in.)
Cable length	1.98 m (6.5 ft.)

Shipping information

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

v1.01

T911087; Pouch for FLIR Exx series



General description

Pouch, including shoulder strap, for FLIR Exx series.

Technical data

Weight	0.135 kg (0.30 lb.), excluding shoulder strap
Size (L x W x H)	290 x 125 x 150 mm (11,4 x 4,9 x 5,9 in.), excluding shoulder strap
Color	Black

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Shipping information

- Pouch
- Shoulder strap

v1.0

T198113; IR lens, 76 mm (6°) with case and mounting support for Exx



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.

Technical data

Field of view (FOV)	6° × 4.5°
Minimum focus distance	4 m (13.11 ft.)
Focal length	76 mm (3.0 in.)
Spatial resolution (IFOV)	0.33 mrad
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	This lens must be calibrated in a service location if sold separately, otherwise the image will be upside-down.
Weight	Lens: 0.328 kg (0.723 lb.) Support: 0.11 kg (0.243 lb.)
Size (L × D)	106 × 89 mm (4.17 × 3.48 in.), excluding support

Shipping information

- Lens
- Lens case
- Mounting support

v1.04

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19250-100; IR Window 2 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

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

v1.04

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

Voltage	Any range
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Technical data

Environment	Indoor/outdoor type 4/12
Operating temperature range	Maximum: 260°C (500°F)
Storage temperature range	Optics, maximum: 1357°C (2474°F)
Size (L x W x H)	26.9 x 99 x 107 mm (1.05 x 3.89 x 4.22 in.)
Viewing aperture diameter	69 mm (2.71 in.)
Material	Optics: CaF2 (Calcium Fluoride Crystal) Body: Anodized aluminum Hardware: steel
Comments to physical data	Required hole diameter, nominal: 88.9 mm (3.5 in.) Greenlee Punch: 739BB Maximum pullout strength: 1656 kg (3650 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

v1.04

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

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



Optional Accessories

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Shipping information

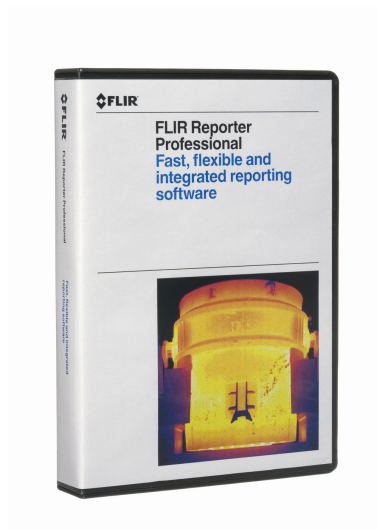
- IR window
- Case
- Mounting instruction
- Additional safety screw

v1.04

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T197717; FLIR Reporter Professional (DVD)



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
- 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

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

Release notes

Version	8.5 SP4
New features	<ul style="list-style-type: none"> • --- 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. • --- News in SP3: --- • Ability to save sessions as files (previously only save/open a session). (Professional Report Wizard) • Profile Open/Save settings for the properties file. (Professional Report Wizard)

Shipping information

- FLIR Reporter Professional
- Getting Starting Guide

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System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit • Windows Vista, 64-bit • Windows 7, 32-bit • Windows 7, 64-bit
Software requirements	<ul style="list-style-type: none"> • Office 2003 (32-bit) • Office 2007 (32-bit) • Office 2010 (32-bit)

v1.05

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:

- 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
- 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 8.5 SP4

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Release notes

New features

- --- 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.
- --- News in SP3: ---
- Ability to save sessions as files (previously only save/open a session). (Professional Report Wizard)
- Profile Open/Save settings for the properties file. (Professional Report Wizard)

Shipping information

- FLIR Reporter Professional 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

Software requirements

- Office 2003 (32-bit)
- Office 2007 (32-bit)
- Office 2010 (32-bit)

v1.06

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 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 and T6xx series only).

Download

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

<http://www.flir.com>

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Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=120>

Release notes

Version	FLIR Tools 2.0
New features	<ul style="list-style-type: none"> --- News in 2.0: --- Camera tab (Camera connection with FLIR UVC cameras. Measurement data analysis. Plotting. Snapshot saving with text annotation and plot.) Performance improvement for large reports: can now create reports and imagesheets of up to 200 pages. Various bug fixes.

Shipping information

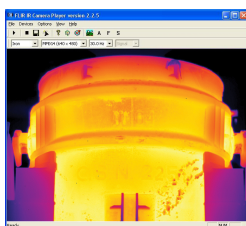
- Digital download, or
- CD-ROM

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit • Windows 7, 32-bit • Windows 7, 64-bit
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v1.08

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:

- 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

Version	2.2.6
New features	<ul style="list-style-type: none"> --- News in 2.2.6 Various bug fixes. --- News in 2.2.5 Color palette menu. Option to record AVI video clips from cameras that deliver MPEG or H264 image streams. Option to compress the FLIR Researcher formats F7M0 and F7M2 to AVI. Support for FLIR Exx series cameras. Support for FLIR T6xx series cameras.

P/N: 49001-2301

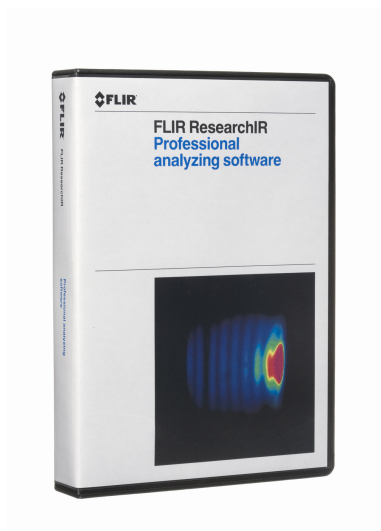
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System requirements

Operating system	<ul style="list-style-type: none">• Windows XP, 32-bit• Windows Vista, 32-bit/64-bit• Windows 7, 32-bit/64-bit
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v1.02

T198206; FLIR ResearchIR 3.1



General description

Note: This release only applies to the APAC and EMEA regions. 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.

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

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=132>

Release notes

Version	FLIR ResearchIR 3.1
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P/N: 49001-2301

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Release notes

New features

- --- 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

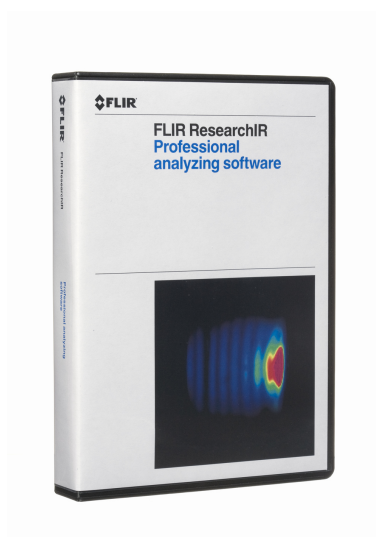
System requirements

Operating system

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

v1.02

T198206L5; FLIR ResearchIR 3.1, 5 user licenses



General description

Note: This release only applies to the APAC and EMEA regions.
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.

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Typical applications:

P/N: 49001-2301

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General description

- 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

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Release notes

Version	FLIR ResearchIR 3.1
New features	<ul style="list-style-type: none"> • --- 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

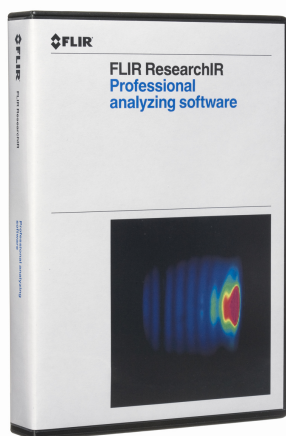
- FLIR ResearchIR
- 5 user licenses

System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32 bit • Windows Vista, 32 bit • Windows Vista, 64 bit • Windows 7, 32 bit • Windows 7, 64 bit
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v1.01

T198206L10; FLIR ResearchIR 3.1, 10 user licenses



General description

Note: This release only applies to the APAC and EMEA regions.
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.
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P/N: 49001-2301

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General description

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).
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Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=132>

Release notes

Version	FLIR ResearchIR 3.1
New features	<ul style="list-style-type: none">• --- 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
- 10 user licenses

System requirements

Operating system	<ul style="list-style-type: none">• Windows XP, 32 bit• Windows Vista, 32 bit• Windows Vista, 64 bit• Windows 7, 32 bit• Windows 7, 64 bit
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v1.01

P/N: 49001-2301

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T198209; FLIR ResearchIR Max 3.1



General description

Note: This release only applies to the APAC and EMEA regions.
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.
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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.
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Release notes

Version	FLIR ResearchIR Max 3.1
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Shipping information

- FLIR ResearchIR Max

System requirements

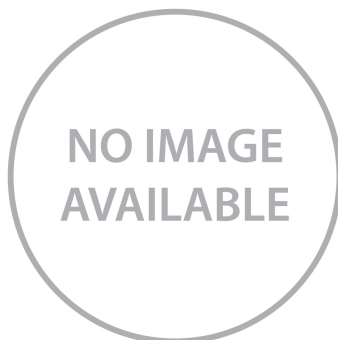
Operating system	<ul style="list-style-type: none">• Windows XP, 32 bit• Windows Vista, 32 bit• Windows Vista, 64 bit• Windows 7, 32 bit• Windows 7, 64 bit
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v1.0

P/N: 49001-2301

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T198209L5; FLIR ResearchIR Max 3.1, 5 user licenses



General description

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Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=134>

Release notes

Version	FLIR ResearchIR Max 3.1
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Shipping information

- FLIR ResearchIR Max
- 5 user licenses

System requirements

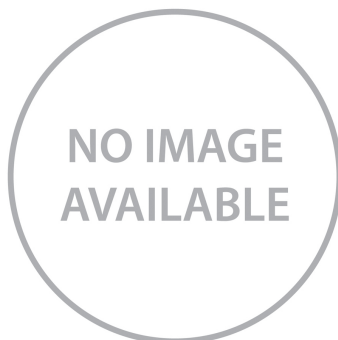
Operating system	<ul style="list-style-type: none">• Windows XP, 32 bit• Windows Vista, 32 bit• Windows Vista, 64 bit• Windows 7, 32 bit• Windows 7, 64 bit
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v1.0

P/N: 49001-2301

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T198209L10; FLIR ResearchIR Max 3.1, 10 user licenses



General description

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- Evaluating the transient behavior of a car brake when braking and when altering the material in the brakes.

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<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=134>

Release notes

Version	FLIR ResearchIR Max 3.1
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Shipping information

- FLIR ResearchIR Max
- 10 user licenses

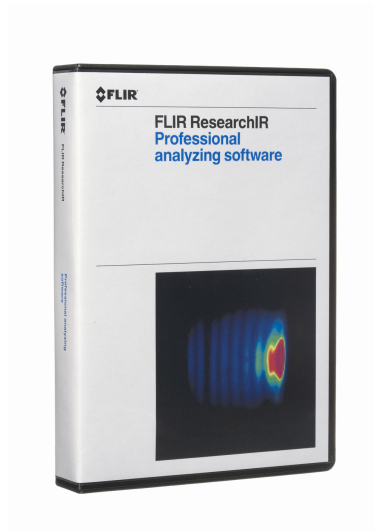
System requirements

Operating system	<ul style="list-style-type: none">• Windows XP, 32 bit• Windows Vista, 32 bit• Windows Vista, 64 bit• Windows 7, 32 bit• Windows 7, 64 bit
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P/N: 49001-2301

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T198292; Upgrade previous version to FLIR ResearchIR 3.1



General description

Upgrade previous version of ThermaCAM Researcher Professional and FLIR ResearchIR to FLIR ResearchIR 3.1, for details see the product data for the current version.

Note: This release only applies to the APAC and EMEA regions.

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.

Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=132>

Release notes

Version	FLIR ResearchIR 3.1
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Shipping information

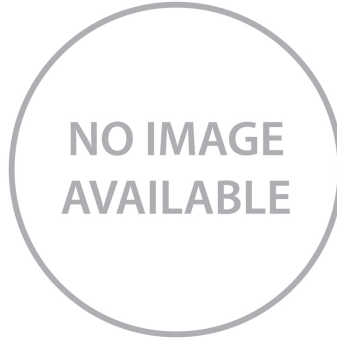
- FLIR ResearchIR

v1.01

P/N: 49001-2301

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T198291; Upgrade previous version to FLIR ResearchIR Max 3.1



General description

Upgrade previous version of ThermoCAM Researcher Professional and FLIR ResearchIR to FLIR ResearchIR Max 3.1, for details see the product data for the current version.

Note: This release only applies to the APAC and EMEA regions.

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

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=134>

Release notes

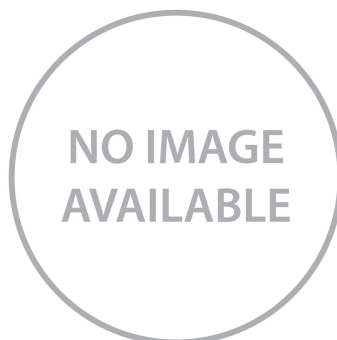
Version	FLIR ResearchIR Max 3.1
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Shipping information

- FLIR ResearchIR Max

v1.01

T198290; Upgrade FLIR ResearchIR 3.x to FLIR ResearchIR Max 3.1



General description

Upgrade of FLIR ResearchIR 3.x to FLIR ResearchIR Max 3.1, for details see the product data for the current version. Note: This release only applies to the APAC and EMEA regions.

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

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Optional Software

P/N: 49001-2301

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Release notes

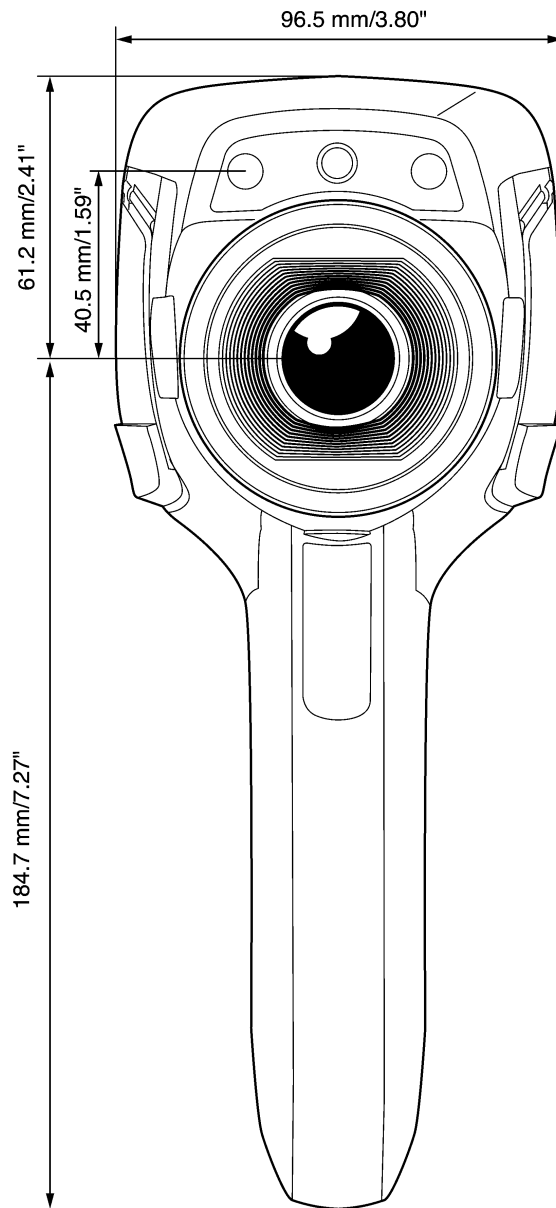
Version	FLIR ResearchIR Max 3.1
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Shipping information

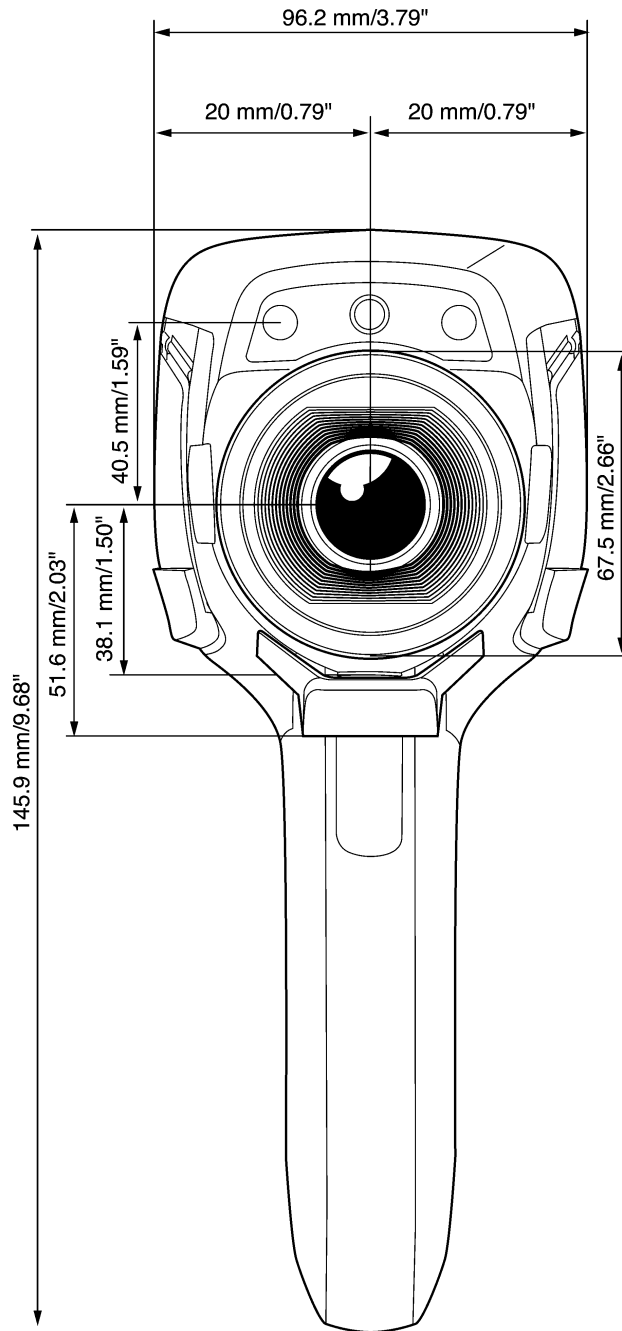
- FLIR ResearchIR Max
-

v1.01

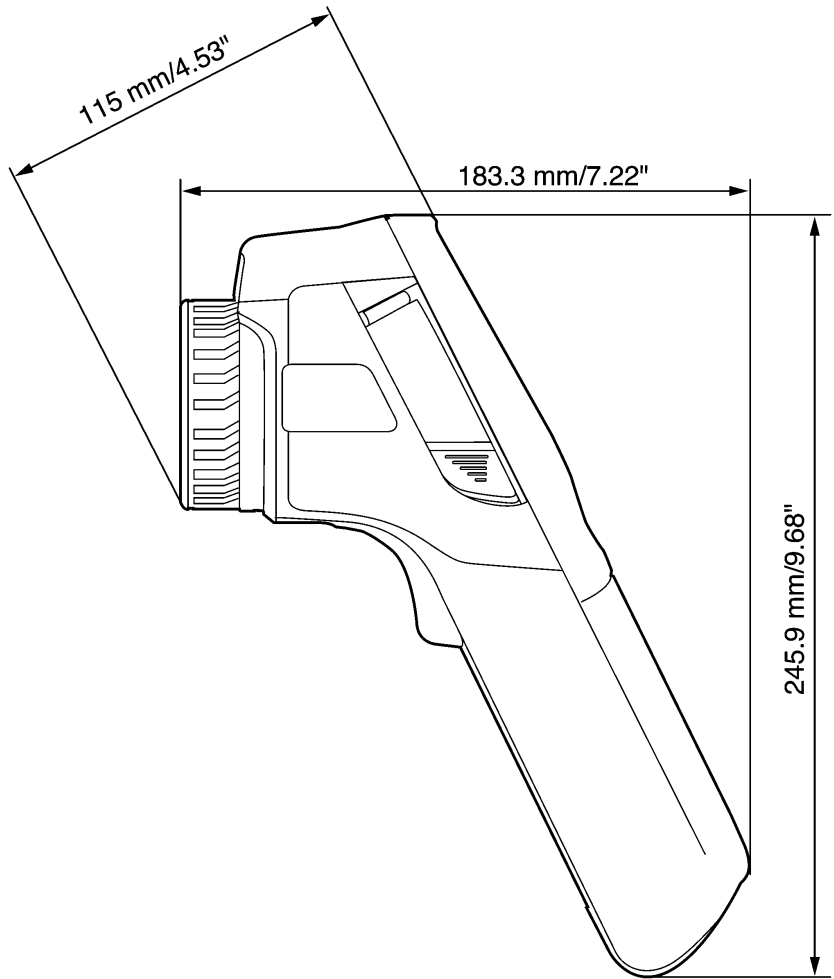
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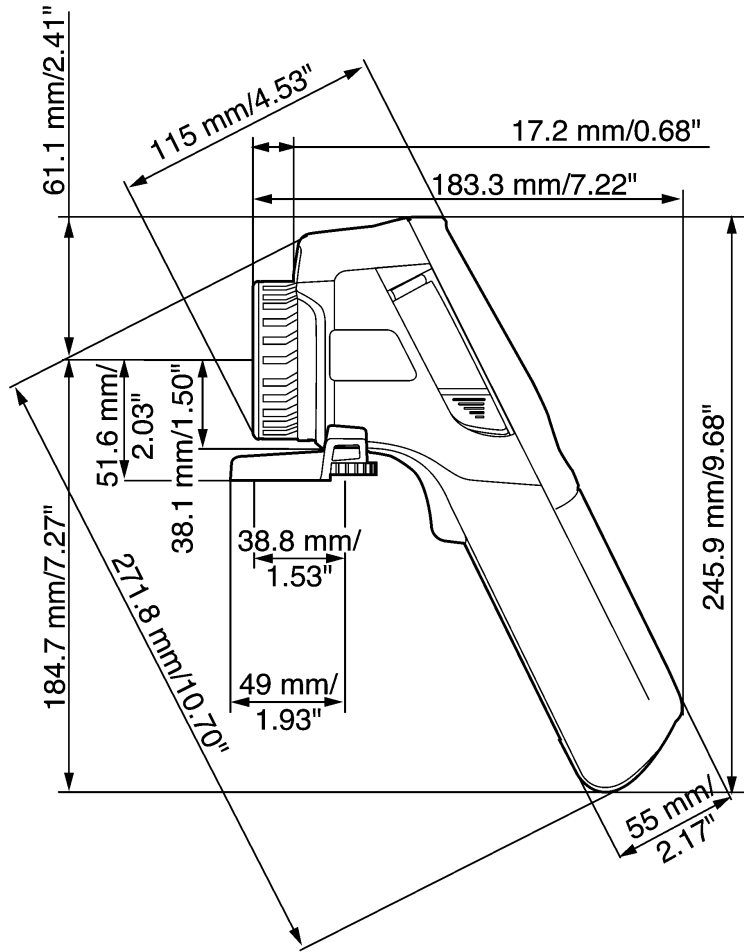
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