

Part number:
64502-1202

Copyright

© 2013, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

October 17, 2013, 07:42 AM

Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
Telephone: +1-503-498-3547

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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 FLIR Exx-Series is a compact and rugged infrared camera that can be used in harsh environments while still providing you with the latest technology such as a modern touchscreen. The Exx-Series is the perfect choice when you are looking for a robust but feature-rich camera at an affordable price.

Benefits:

- Robust and sophisticated: The Exx-Series has a robust and light-weight design and can withstand a 2 meter drop. Big buttons combined with a modern touch screen and broad measuring capabilities, it is the right choice for demanding inspections in the field.
- Best value for money: The FLIR Exx-Series combines good performance (up to 320 × 240 pixels), a user-friendly interface, and a rugged point-and-shoot design with an affordable price.

Imaging and optical data

IR resolution	320 × 240 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)	1.36 mrad
F-number	1.3
Image frequency	60 Hz
Focus	Manual
Digital zoom	2× and 4×
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, MSX, picture in picture, thumbnail gallery
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)
--------------------------	--

P/N: 64502-1202

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

Measurement

Accuracy	$\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$ of reading, for ambient temperature 10°C to 35°C ($+50^{\circ}\text{F}$ 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
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	Simultaneous storage of images in IR, visual and MSX

Image annotations

Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> Flir Tools software specifically designed to provide an easy way to create inspection reports. It is available on the major platforms – Android, Windows, MacOS and iOS.

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 $53^{\circ} \times 41^{\circ}$
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

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

P/N: 64502-1202

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

Data communication interfaces

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	EN/UL/CSA/PSE 60950-1

Physical data

Camera weight, incl. battery	0.880 kg (1.94 lb.)
Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 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

- Hard transport case
- Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- FLIR Tools software
- Handstrap
- Memory card
- Power supply, incl. multi-plugs
- Printed documentation
- USB cable
- User documentation CD-ROM
- Video cable

P/N: 64502-1202

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

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
- T911173 Memory card SD
- 1910423 USB cable Std A <-> Mini-B
- T198509 Cigarette lighter adapter kit, 12 VDC, 1.2 m/3.9 ft.
- 1910582 Video cable
- T911093 Tool belt
- T198125 Battery charger, incl. power supply with multi plugs Exx
- T198113 IR lens, 76 mm (6°) with case and mounting support for Exx
- T198341 Transport case Exx
- T198487 Li-Ion Battery pack 3.7V 17Wh
- T198484 Pouch for FLIR Exx series
- T198486 Tripod Adapter
- T198485 Sun shield
- T198533 USB cable
- 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)
- T198586 FLIR Reporter Professional (license only)
- T198584 FLIR Tools
- T198583 FLIR Tools+ (license only)
- DSW-10000 FLIR IR Camera Player
- 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
- T198292 Upgrade previous version to FLIR ResearchIR 3
- T198291 Upgrade previous version to FLIR ResearchIR 3 Max
- T198290 Upgrade FLIR ResearchIR 3 to FLIR ResearchIR 3 Max

P/N: 64502-1202

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

1196961; IR lens, f = 30 mm, 15° incl. case



General description

The 15° lens is a popular lens accessory and provides 1.7x 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

v1.04

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)	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

P/N: 64502-1202

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

Technical data

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

Shipping information

- Lens
- Lens case

v1.03

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

T911173; Memory card SD

General description

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

Technical data

Memory card, size	At least 2 GB
Weight	2 g (0.07 oz.)
Size (L x W x H)	32.0 x 24.0 x 2.1 mm (1.26 x 0.94 x 0.08 in.)

Shipping information

- SD Card

v1.0

P/N: 64502-1202

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

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

T198509; 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.)
--------------	-----------------

Shipping information

EAN-13	7332558004340
UPC-12	845188004361

v1.01

P/N: 64502-1202

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

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

v1.02

T911093; Tool belt



General description

Tool belt for FLIR camera pouches.

Technical data

Weight	0.117 kg (0.26 lb.)
Length	1.44 m (4.7 ft.)
Color	Black

Shipping information

- Tool belt

EAN-13	4743254000384
UPC-12	845188003210

v1.02

P/N: 64502-1202

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

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

EAN-13	4743254000513
UPC-12	845188003487

v1.03

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° x 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%)

P/N: 64502-1202

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

Technical data

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 x D)	106 x 89 mm (4.17 x 3.48 in.), excluding support

Shipping information

- Lens
- Lens case
- Mounting support

v1.04

T198341; Transport case Exx



General description

Rugged, watertight plastic shipping case for FLIR Exx series. 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	2.65 kg (5.84 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

- Transport case Exx

Packaging, weight	3.05 kg (6.72 lb.)
Packaging, size	505 x 365 x 185 mm (19.9 x 14.4 x 7.3 in.)
EAN-13	4743254000681
UPC-12	845188003838

v1.01

T198487; Li-Ion Battery pack 3.7V 17Wh



General description

High capacity battery for the IR camera.

P/N: 64502-1202

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

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.)

Shipping information

EAN-13	4743254000773
UPC-12	845188004514

v1.01

T198484; Pouch for FLIR Exx series



General description

Pouch, including shoulder strap, for FLIR Exx series.

Technical data

Color	Black
-------	-------

Shipping information

- Pouch
- Shoulder strap

EAN-13	4743254000803
UPC-12	845188004552

v1.0

T198486; 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

P/N: 64502-1202

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

Shipping information

- Tripod Adapter

EAN-13	4743254000780
--------	---------------

UPC-12	845188004569
--------	--------------

v1.02

T198485; 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
----------	---------

Color	Black
-------	-------

Shipping information

- Sun shield

EAN-13	4743254000797
--------	---------------

UPC-12	845188004538
--------	--------------

v1.01

T198533; USB cable



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 Micro-B
-----------	-------------------------------

Shipping information

EAN-13	4743254001077
--------	---------------

UPC-12	845188004927
--------	--------------

P/N: 64502-1202

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

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
---------	-----------

P/N: 64502-1202

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

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

P/N: 64502-1202

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

Shipping information

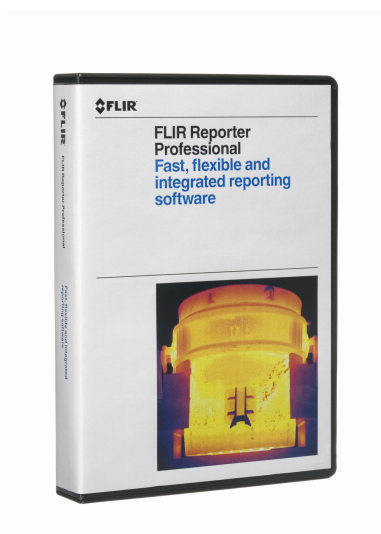
- IR window
- Case
- Mounting instruction
- Additional safety screw

v1.04

P/N: 64502-1202

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

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
- 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
---------	-----

P/N: 64502-1202

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

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)

v1.07

T198586; 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:

P/N: 64502-1202

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

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	<ul style="list-style-type: none"> • --- 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 scratchcard

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 2007 (32-bit) • Office 2010 (32-bit)

v1.0

P/N: 64502-1202

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

T198584; 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:

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

Release notes

Version	FLIR Tools 3.1
---------	----------------

P/N: 64502-1202

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

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 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

- 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

v1.0

T198583; 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:

P/N: 64502-1202

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

General description

- Radiometric panorama with MSX images.
- Advanced word reports.
- Manual grouping/ungrouping of images.
- 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
New features	<ul style="list-style-type: none"> • --- 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. • Manual grouping/ungrouping of images. • 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

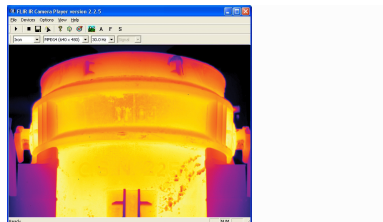
System requirements

Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit • Windows 7, 32-bit • Windows 7, 64-bit • Windows 8, 32-bit • Windows 8, 64-bit
------------------	---

P/N: 64502-1202

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

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	2.2.7
New features	<ul style="list-style-type: none"> • --- News in 2.2.7 • Added support for FLIR Ax5 series. • --- News in 2.2.6 • Various bug fixes.

System requirements

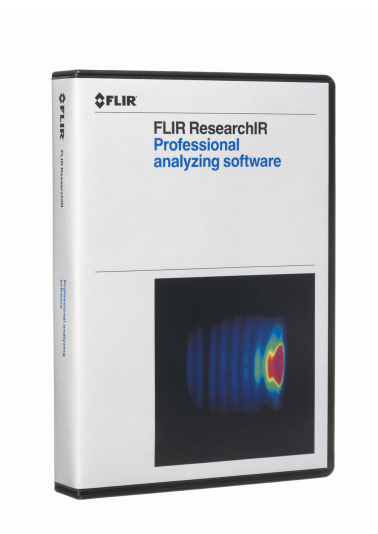
Operating system	<ul style="list-style-type: none"> • Windows XP, 32-bit • Windows Vista, 32-bit/64-bit • Windows 7, 32-bit/64-bit
------------------	--

v1.03

P/N: 64502-1202

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

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:

- 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:

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

Release notes

Version	FLIR ResearchIR 3.2
---------	---------------------

P/N: 64502-1202

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

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.
- 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

v1.04

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.

P/N: 64502-1202

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

General description

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	<ul style="list-style-type: none"> • --- 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 scratchcard

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
------------------	--

v1.05

P/N: 64502-1202

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

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



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
---------	---------------------

P/N: 64502-1202

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

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.
- 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

- 5 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

v1.06

T127597L10; FLIR ResearchIR 3 (license only), 10 user licenses



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:

P/N: 64502-1202

© 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	<ul style="list-style-type: none"> • --- 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

- 10 FLIR ResearchIR scratchcards

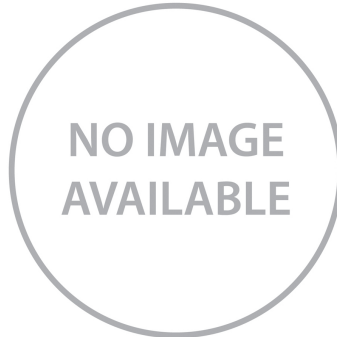
System requirements

- | | |
|------------------|--|
| 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 |
|------------------|--|

P/N: 64502-1202

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

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:

- 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:

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

Release notes

Version	FLIR ResearchIR Max 3.2
---------	-------------------------

P/N: 64502-1202

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

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

- FLIR ResearchIR Max

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

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 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:

P/N: 64502-1202

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

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

Download your copy of FLIR ResearchIR MAX here:

<http://support.flir.com/researchirmax>

Release notes

Version	FLIR ResearchIR Max 3.2
New features	<ul style="list-style-type: none"> • --- 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

- FLIR ResearchIR Max scratch card

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
------------------	--

v1.03

T127598L5; FLIR ResearchIR 3 Max (license only), 5 user licenses



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:

P/N: 64502-1202

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

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

Version	FLIR ResearchIR Max 3.2
New features	<ul style="list-style-type: none"> • --- 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

- 5 FLIR ResearchIR Max scratchcards

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
------------------	--

v1.04

P/N: 64502-1202

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

T127598L10; FLIR ResearchIR 3 Max (license only), 10 user licenses



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

Version	FLIR ResearchIR Max 3.2
New features	<ul style="list-style-type: none"> • --- 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.

P/N: 64502-1202

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

Shipping information

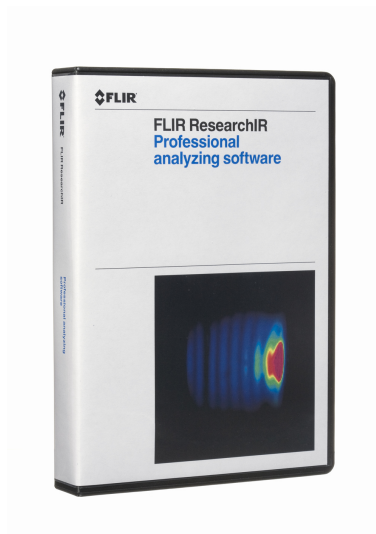
- 10 FLIR ResearchIR Max scratchcards

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 |
|------------------|--|

v1.04

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.

Download

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

Release notes

Version	FLIR ResearchIR 3.2
---------	---------------------

Shipping information

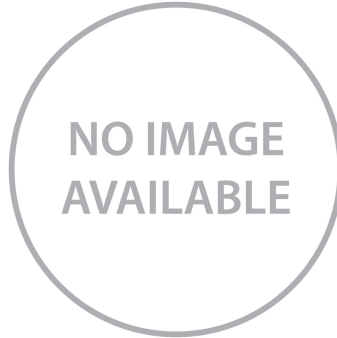
- FLIR ResearchIR

v1.03

P/N: 64502-1202

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

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

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

Release notes

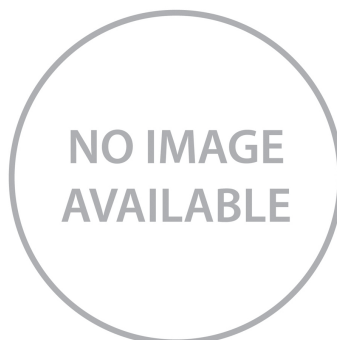
Version	FLIR ResearchIR Max 3.2
---------	-------------------------

Shipping information

- FLIR ResearchIR Max

v1.03

T198290; Upgrade FLIR ResearchIR 3 to FLIR ResearchIR 3 Max



General description

Upgrade of 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

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



Optional Software

P/N: 64502-1202

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

Release notes

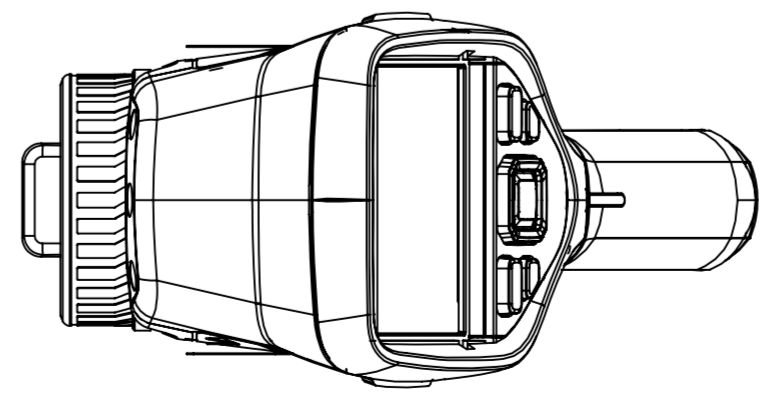
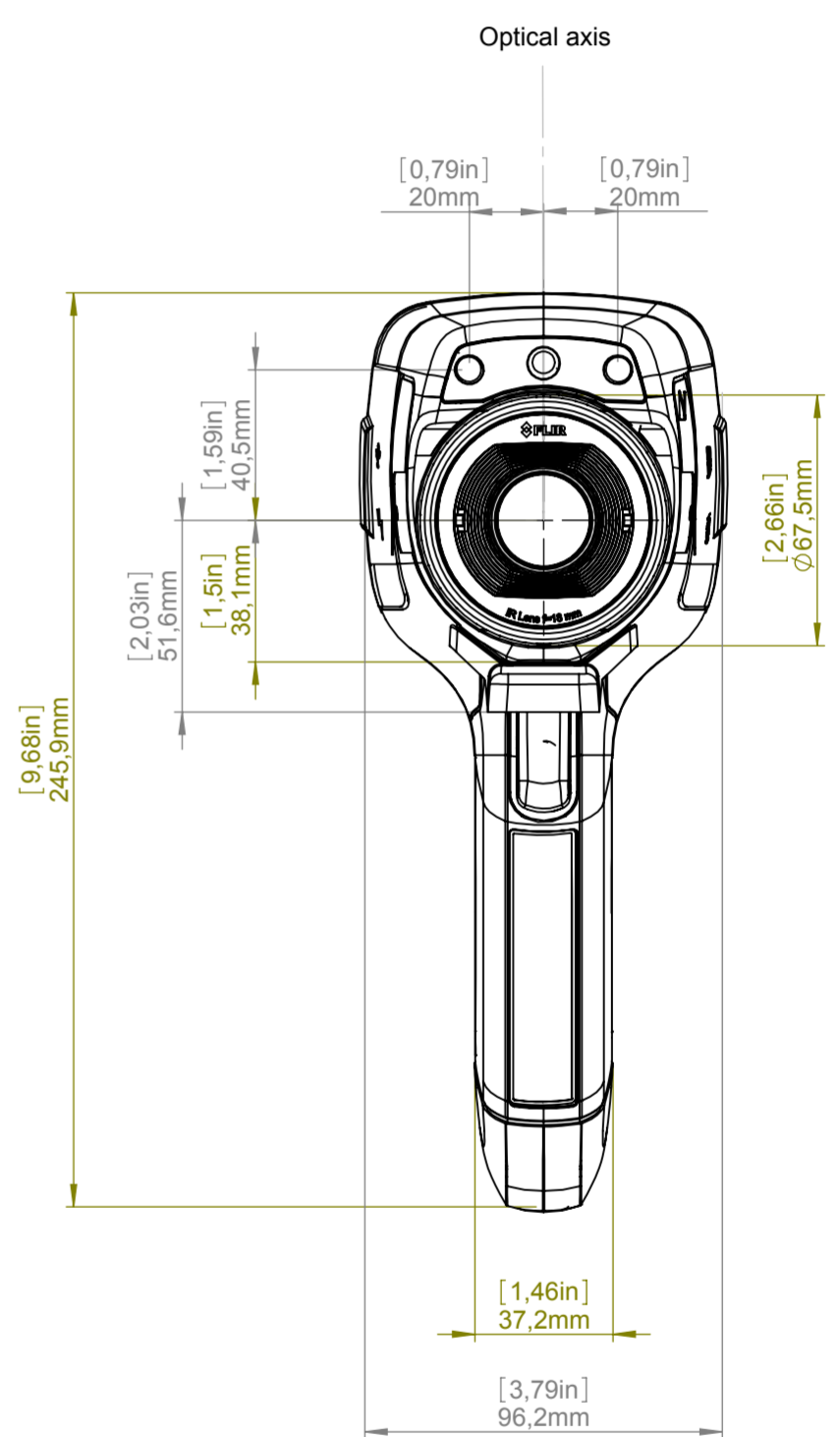
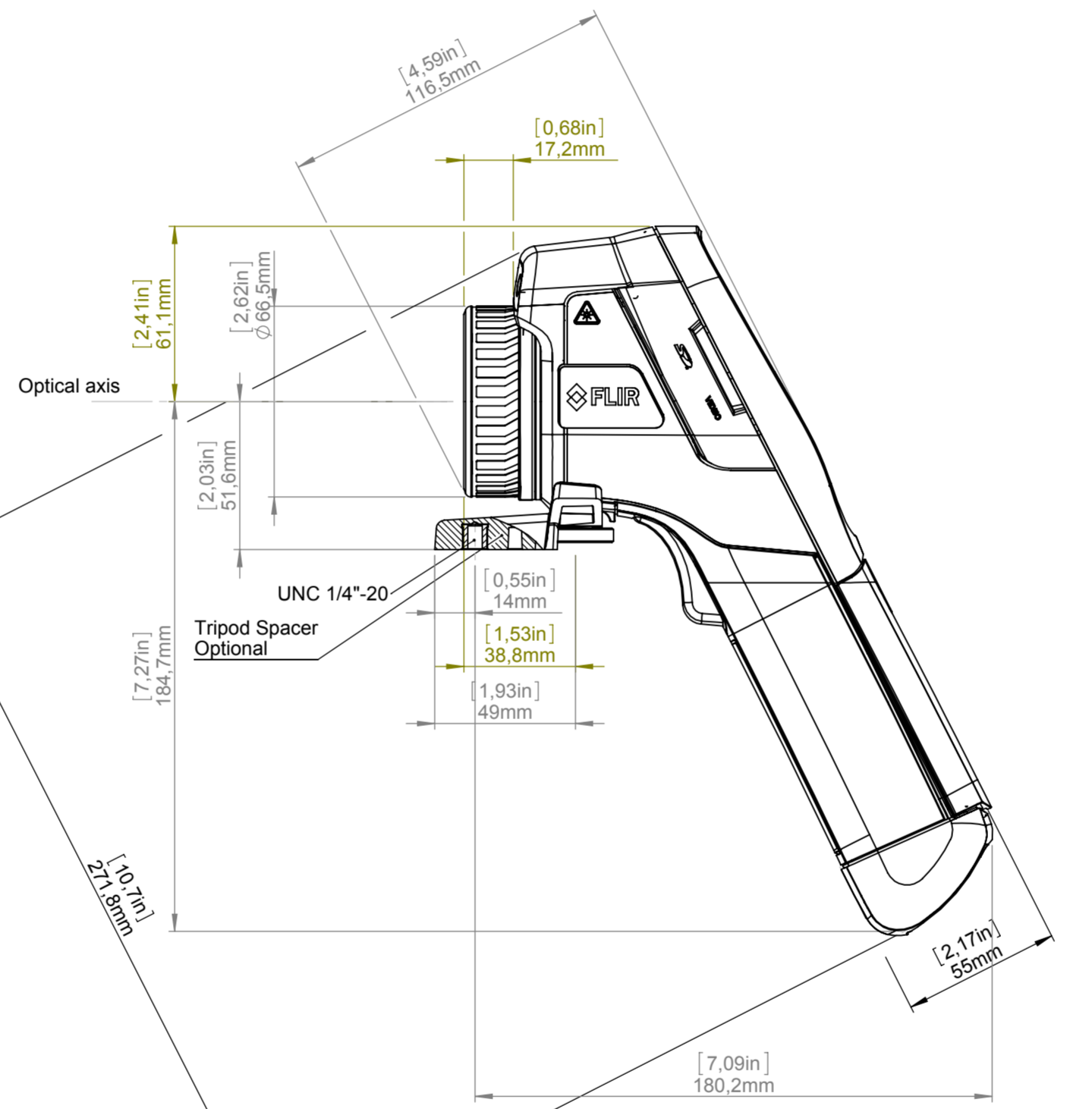
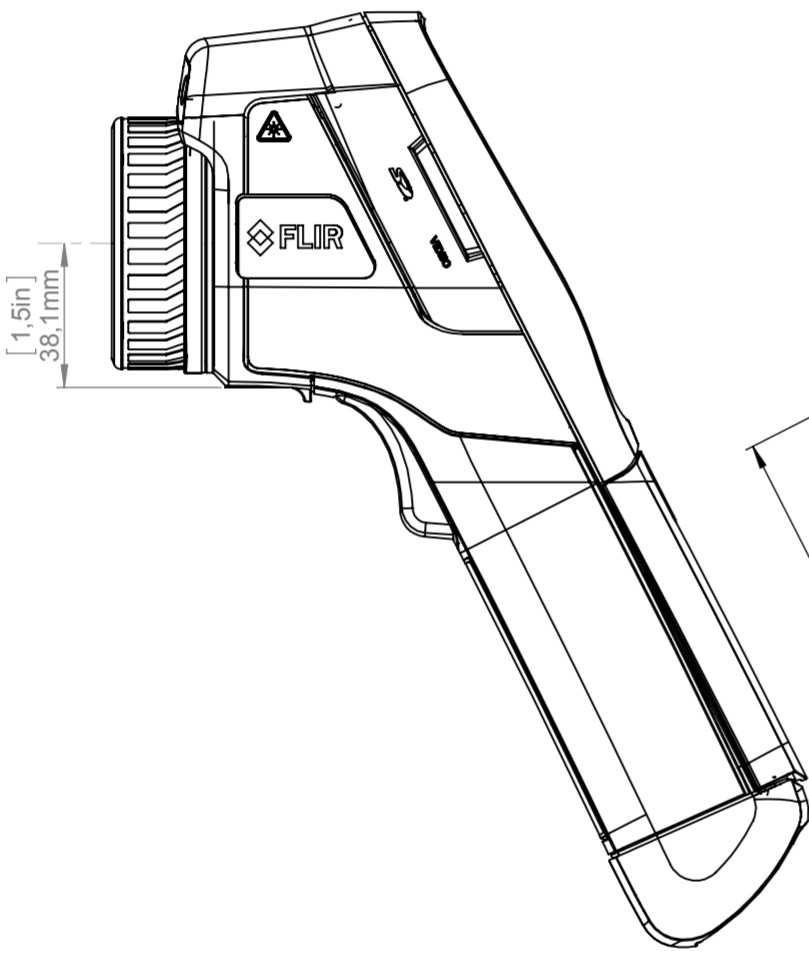
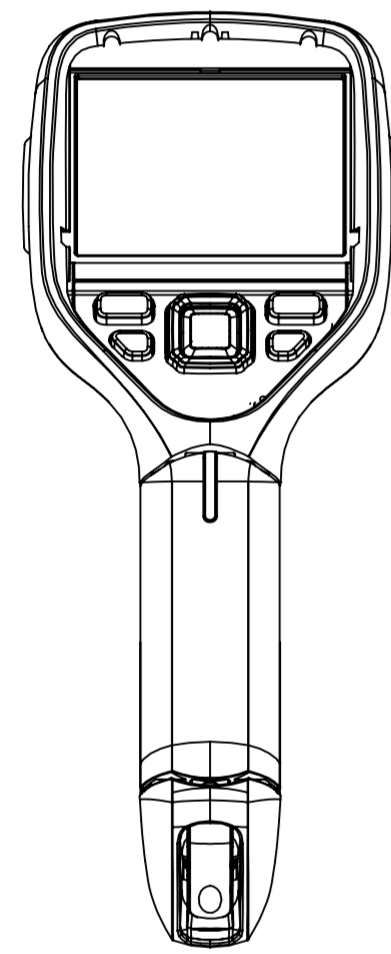
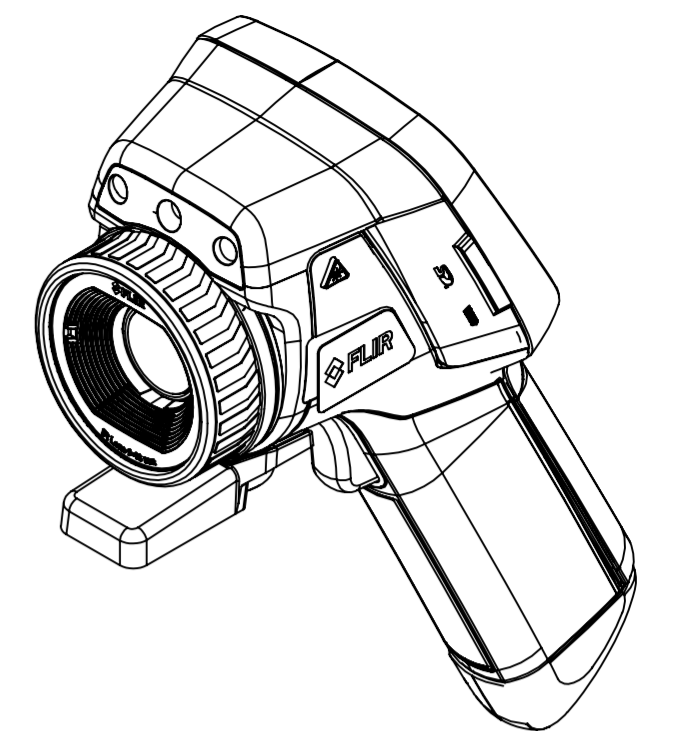
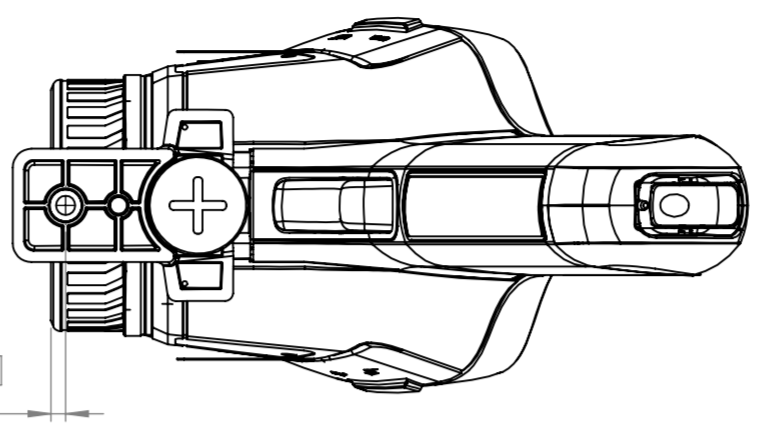
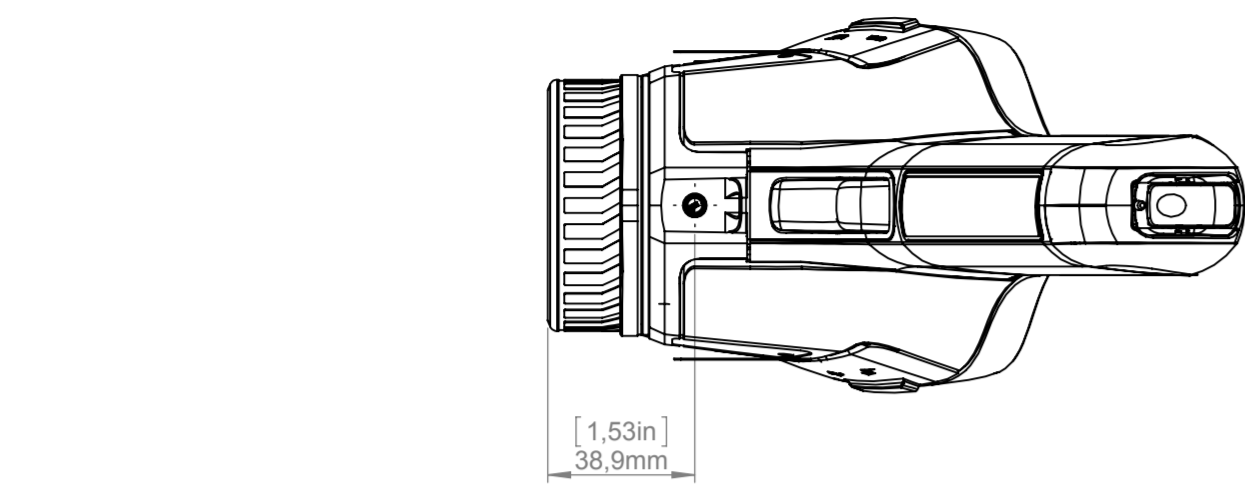
Version	FLIR ResearchIR Max 3.2
---------	-------------------------

Shipping information

- FLIR ResearchIR Max
-

v1.03

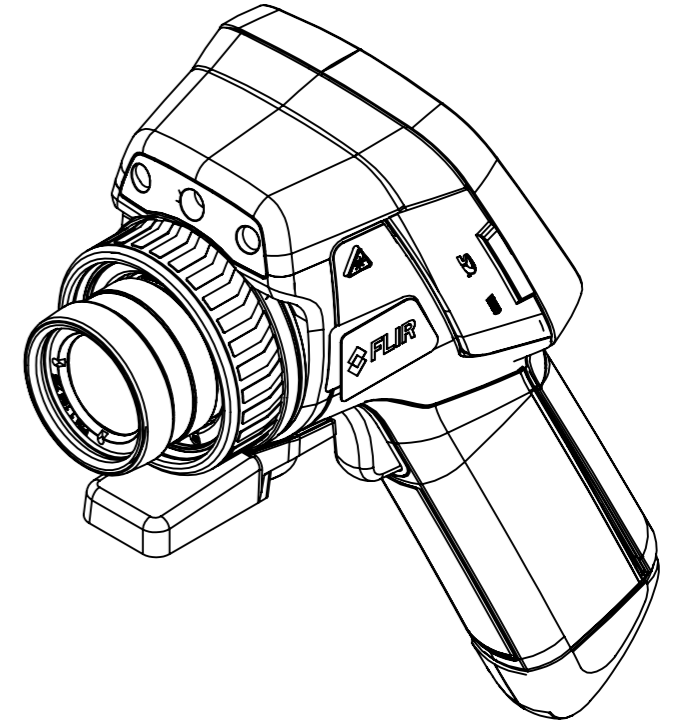
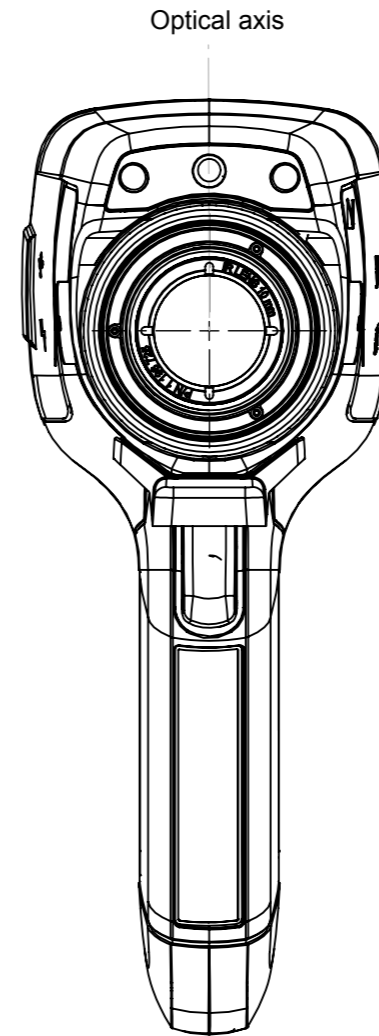
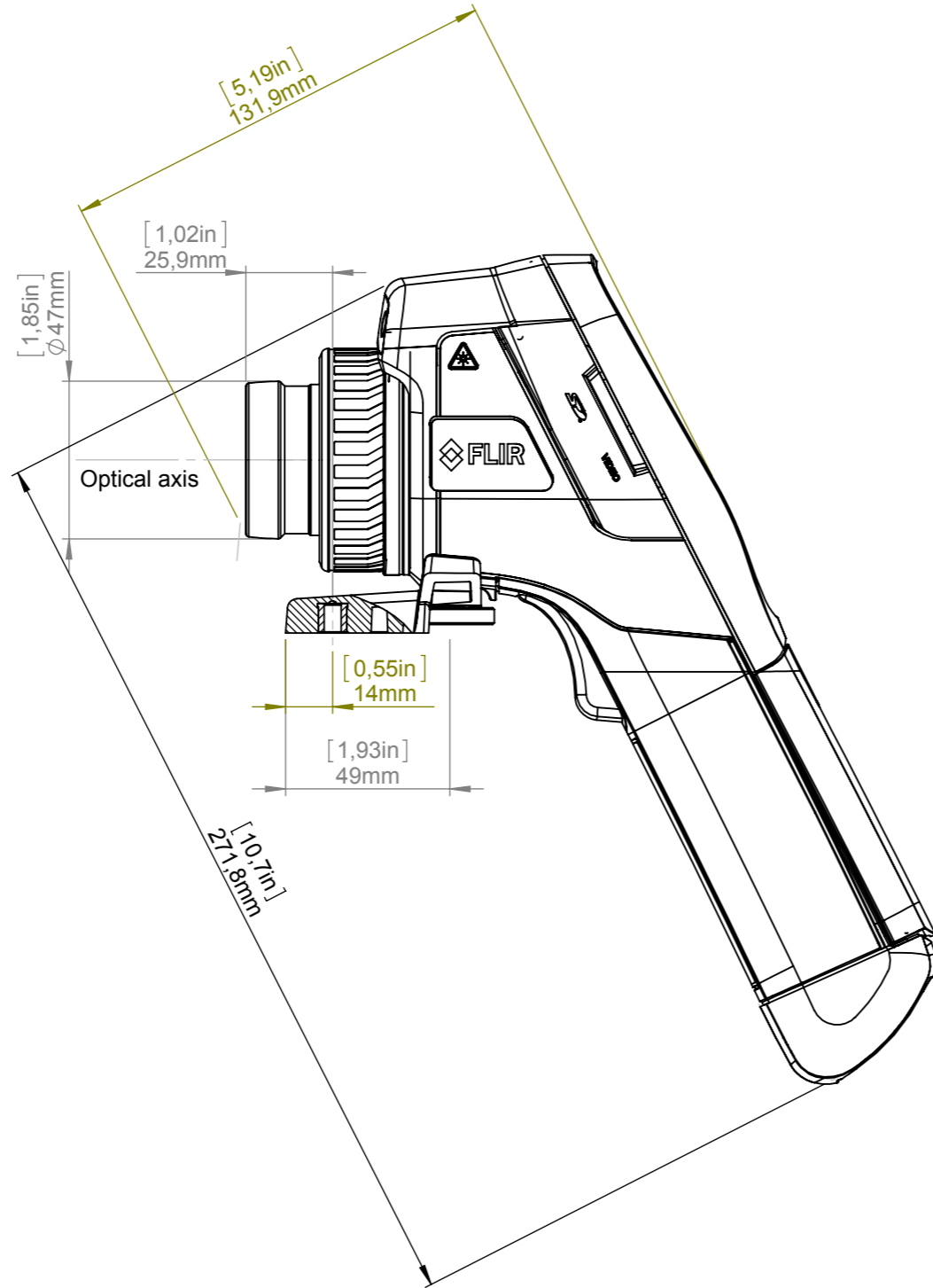
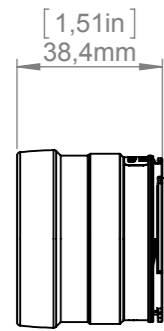
Camera with built-in IR lens f=18 mm (25°)



© 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 notice. Dimensions are in millimeters unless otherwise indicated. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

Modified 2013-04-18	Check CAHA	Drawn by R&D Thermography	
Denomination			
Basic dimensions Flir Exx series			Size A3 Scale 1:2 Sheet 1(4)
Drawing No. T127869			Size A

Camera with Lens IR f=10 mm (45°)

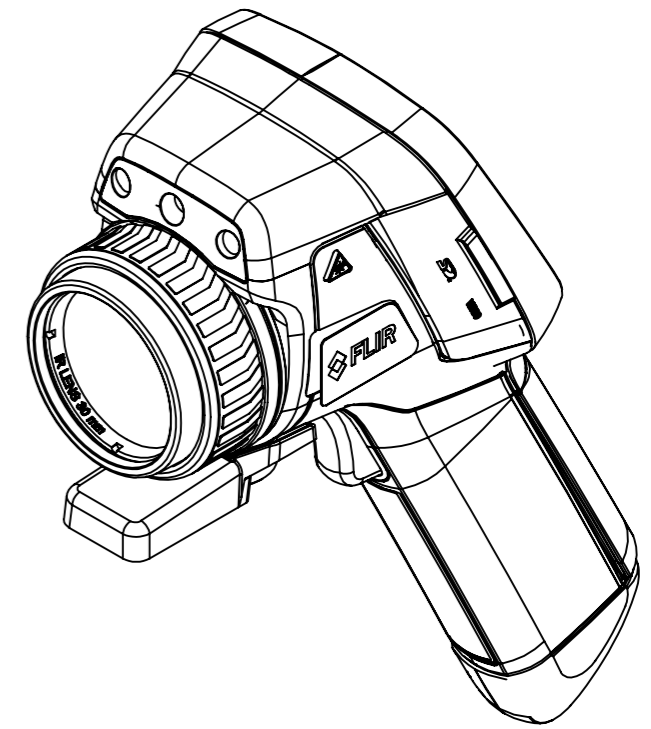
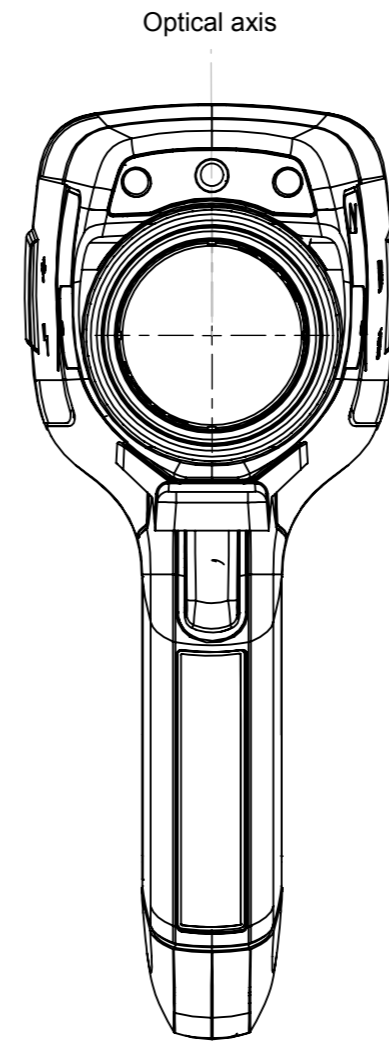
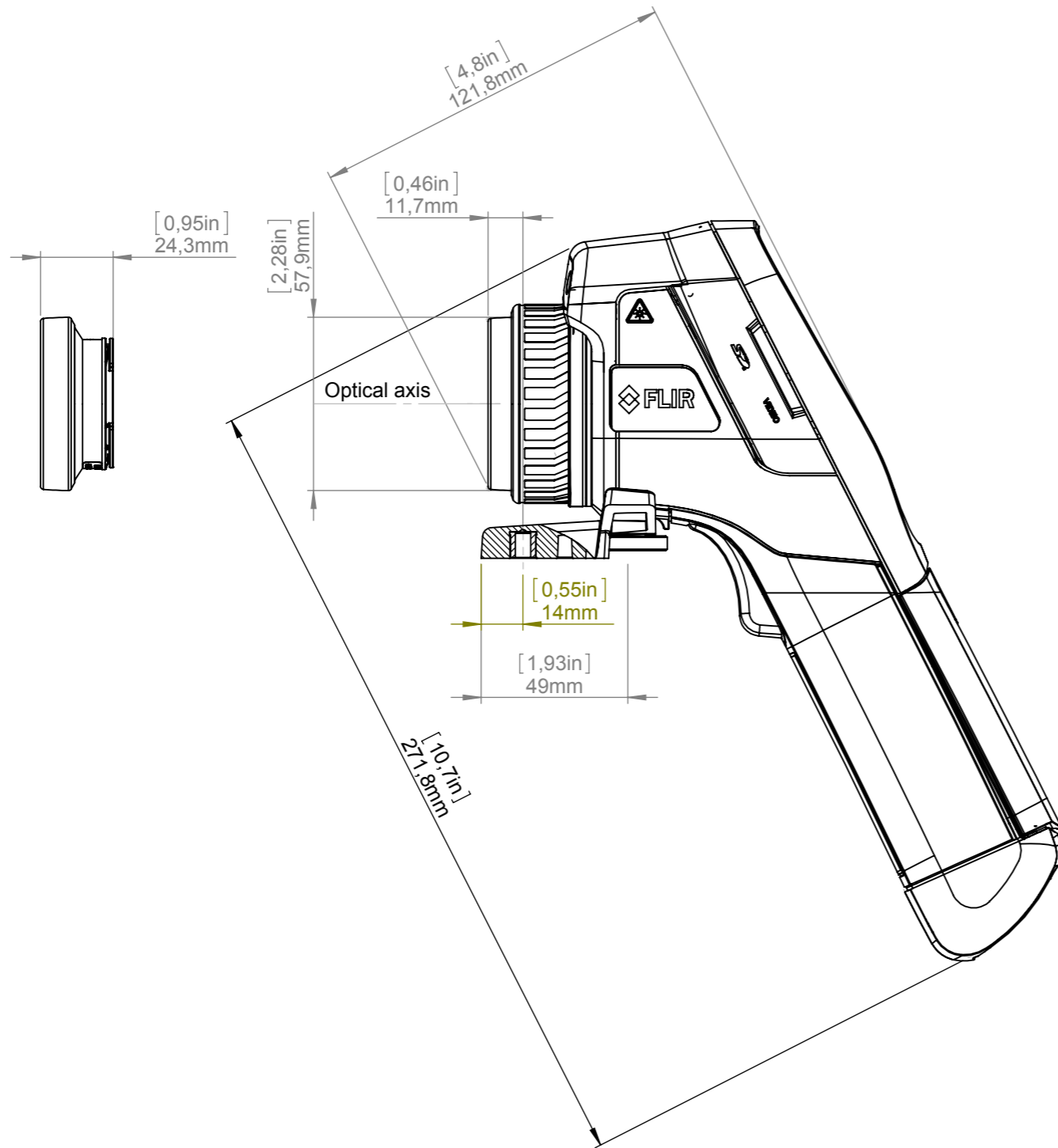


© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

For additional dimensions see page 1

Modified 2013-04-18	Check CAHA	Drawn by R&D Thermography	
Denomination			
Basic dimensions Flir Exx series			Sheet 2(4) Size A

Camera with Lens IR f=30 mm (15°)

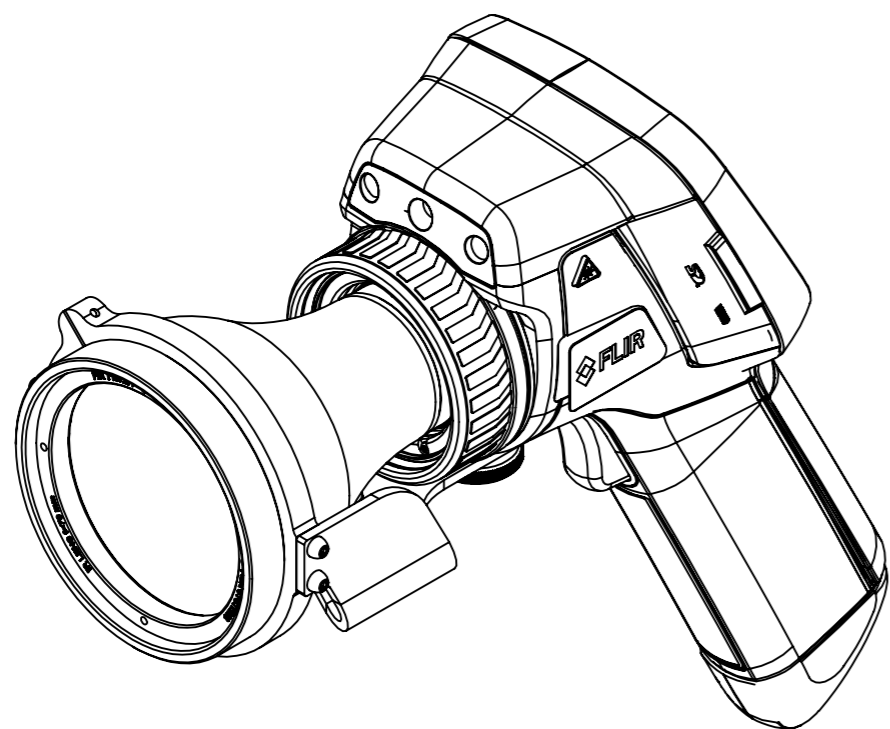
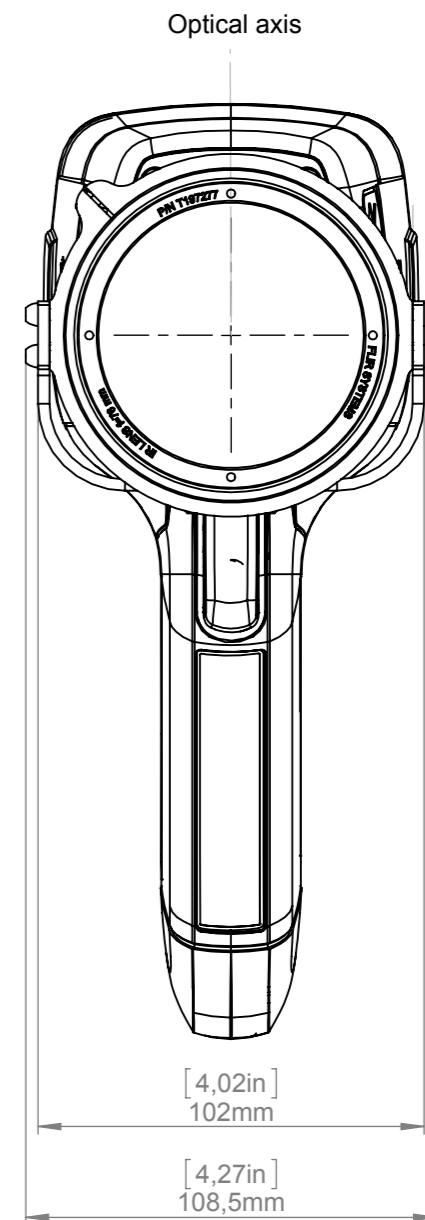
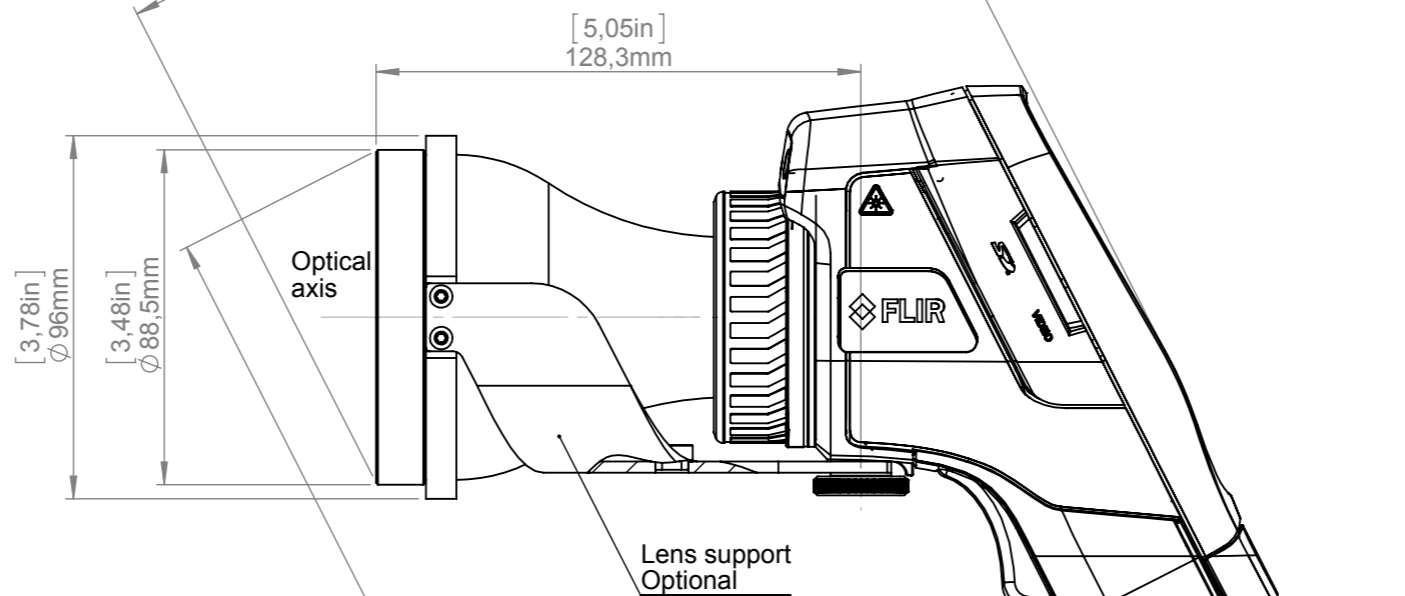
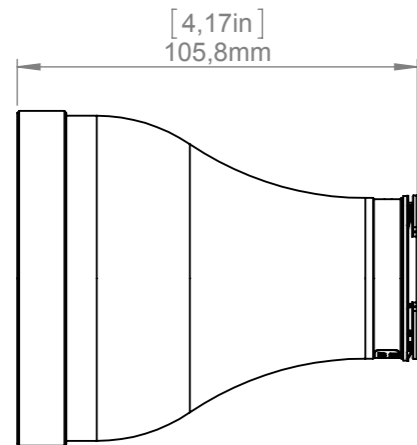


© 2012 FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.

For additional dimensions see page 1

Modified 2013-04-18	Check CAHA	Drawn by R&D Thermography	
Denomination Basic dimensions Flir Exx series			
Size A3	Scale 1:2	Sheet 3(4)	
Drawing No. T127869	Size A		

Camera with Lens IR f=76 mm (6°) incl support



[12,42in]
315,5mm

For additional dimensions see page 1

Modified 2013-04-18	Check CAHA	Drawn by R&D Thermography	
Denomination			
Basic dimensions Flir Exx series			Scale 1:2
Drawing No. T127869			Sheet 4(4)
			Size A

© 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 based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.