Technical Data

FLIR T640 25° (incl. Wi-Fi)

Part number:

55901-0402

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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

General description

FLIR T640 is the highest performing infrared inspection system available. With its state of the art technology, including 640 x 480 detector resolution and unique ergonomic design it is the natural choice for professional thermographers that want the most efficient instrument producing professional results. The camera is equipped with the standard 25° lens.

Key features:

- Image resolution 640 x 480
- Sensitivity <40 mK
- Built-in bright 4.3” wide screen LCD
- 1-8 times continuous zoom with pan
- Contrast optimization
- Picture in Picture
- Thermal fusion: above, below interval
- Built-in 5 Mpixel digital camera with LED light
- Standard temperature range -40°C to 2000°C
- 2%, 2°C accuracy
- Voice and text annotation
- Wireless communication
- Programmable button

Ergonomics:

- Multi angel rotating IR-unit and large touchscreen
- Built-in viewfinder
- Light weight and excellent balance for comfortable use in any position for all day working comfort
- Intuitive and easy to use, highly responsive interface supported by touchscreen technology
- Joystick and large control buttons for ease of use

Imaging and optical data

IR resolution	640 × 480 pixels
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Field of view (FOV)	25° × 19°
Minimum focus distance	0.25 m (0.82 ft.)
Focal length	25 mm (0.97 in.)
Spatial resolution (IFOV)	0.68 mrad
Lens identification	Automatic
F-number	1.0
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Digital zoom	1–8× continuous
Panning	Panning on frozen image
Digital image enhancement	Adaptive digital noise reduction

Detector data

Detector type	Focal Plane Array (FPA), uncooled microbolometer
Spectral range	7.5–14 µm
Detector pitch	17 µm

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Image presentation	
Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 × 480 pixels
Viewfinder	Built-in 800 × 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based; possible to lock max, min or span temperature
Automatic image adjustment, type	Standard or histogram based from image content
Manual image adjustment	Level/span/max/min

Image presentation modes	
Infrared image	Full color IR image
Visual image	Full color visual image
Thermal fusion	IR image shown above, below or within temp interval on visual image
Picture in Picture	IR area on visual image

Measurement	
Object temperature range	–40°C to +150°C (–40°F to +302°F) +100°C to +650°C (+212°F to +1202°F) +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis	
Spotmeter	10
Area	5 boxes or circles with max./min./average
Automatic hot/cold detection	Max/Min temp. value and position shown within box, circle or on a line
Isotherm	Above/below/interval
Profile	1 live line
Measurement presets	Yes
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on inputs of window transmission and temperature

Set-up	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software update
Camera software update	Use PC software FLIR Tools

Storage of images	
Storage media	Removable memory SD card
Image storage mode	IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped togheter.
File formats	Standard JPEG, measurement data included
File formats, visual	Standard JPEG, automatically associated with corresponding thermal image

Image annotations	
Voice	60 seconds (via Bluetooth) stored with the image

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Image annotations	
Text	Select text from predefined list, editable in camera or type direct on soft keyboard on touch screen
Sketch	From touch screen
Meterlink	Wireless connection (Bluetooth®) to: Extech Moisture Meter MO297 Extech Clamp Meter EX845
Report generation	• Instant Report (*.pdf file) in camera • Separate PC software with extensive report generation

Video recording in camera	
Non-radiometric IR-video recording	MPEG-4 to memory card
Visual video recording	MPEG-4 to memory card

Video streaming	
Non-radiometric IR-video streaming	MPEG-4 using Wi-Fi Uncompressed colorized video using USB
Visual video streaming	MPEG-4 using Wi-Fi Uncompressed colorized video using USB

Digital camera	
Built-in digital camera	5 Mpixel with LED light
Video lamp	Built-in LED light

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, 1 mW, 635 nm (red)

Data communication interfaces	
Bluetooth	Communication with headset and external sensors
SD Card	One card slot for removable SD memory cards
Audio	Microphone headset via Bluetooth for voice annotation of images
USB	• USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC / Uncompressed colorized video
USB, standard	USB 2.0 High Speed
USB, connector type	• USB-A connector • USB Mini-B connector

Composite video	
Video out	Digital Video Output (DVI)
Video, connector type	HDMI compatible

Power system	
Battery type	Rechargeable Li Ion battery
Battery operating time	> 2.5 hours at 25°C (+68°F) and typical use
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90 % capacity, charging status indicated by LED's
Charging temperature	0°C to +45°C (+32°F to +113°F)
External power operation	AC adapter 90–260 VAC, 50/60 Hz or 12 V from a vehicle (cable with standard plug, optional)
Power management	Automatic shutdown and sleep mode (user selectable)

Environmental data	
Operating temperature range	–15°C to +50°C (+5°F to +122°F)

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Environmental data

Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
EMC	• ETSI EN 301 489-1 (radio) • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 Class B (Emission)
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data

Weight	1.3 kg (2.87 lb.)
Size (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Camera size, excl. lens (L × W × H)	143 × 195 × 95 mm (5.6 × 7.7 × 3.7 in.)
Tripod mounting	UNC ¼"-20
Housing material	Magnesium

Scope of delivery

- Hard transport case
- Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- Bluetooth headset
- Calibration certificate
- FLIR Tools™ PC software CD-ROM
- HDMI-DVI cable
- HDMI-HDMI cable
- Large eyecap
- Lens cap
- Memory card with adapter
- Neck strap
- Power supply, incl. multi-plugs
- Printed Getting Started Guide
- Printed Important Information Guide
- Tripod adapter
- USB cable, Std A to Mini-B
- User documentation CD-ROM
- Warranty extension card or Registration card

Optional Accessories

- T197914 IR lens, f=41.3 mm with case (15°)
- T197922 IR lens, f=24.6 mm with case (25°)
- T197915 IR lens, f=13.1 mm with case (45°)
- T198059 Close-up IR lens, 2.9× (50 µm) with case
- T198060 Close-up IR lens, 5.8× (100 µm) with case
- T198166 IR lens, f=88.9 mm with case and support (7°)
- T910814 Power supply, incl. multi plugs
- T198055 Battery
- T198126 Battery charger, incl. power supply with multi plugs T6xx
- 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.
- T910930 HDMI type C to DVI cable 1.5 m
- T910891 HDMI type C to HDMI type A cable 1.5 m
- T197924 Hard transport case for T6xx series
- T197883 Large eyecap
- T197753 Stylus pen
- T197731 Tripod Adapter
- 1124544 Neck strap
- T197771 Bluetooth Headset
- T910972 EX845: Clamp meter + IR therm TRMS 1000A AC/DC
- T910973 MO297: Moisture meter, pinless with memory

Optional Software

- T197717 FLIR Reporter 8.5 SP3, Professional
- T197717L5 FLIR Reporter 8.5 SP3, Professional, 5 user licenses
- T197717L10 FLIR Reporter 8.5 SP3, Professional, 10 user licenses
- T197778 FLIR BuildIR 2.1
- T197778L5 FLIR BuildIR 2.1, 5 user licenses
- T197778L10 FLIR BuildIR 2.1, 10 user licenses
- T197965 FLIR Tools
- T198206 FLIR ResearchIR 3.0
- APP-10000 FLIR Viewer (iPad/iPhone Application)

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Optional Software

- DSW-10000 FLIR IR Camera Player
- APP-10001 FLIR Remote (iPad/iPhone Application)
- APP-10002 FLIR Tools Mobile (Android Application)

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T197914; IR lens, f=41.3 mm with case (15°)

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° x 11° (19° diagonally)
Minimum focus distance	500 mm (19.69 in.)
Focal length	41.3 mm (1.63 in.)
Spatial resolution (IFOV)	0.41 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.190 kg (0.419 lb.)
Size (L × D)	47 × 67 mm (1.85 × 2.64 in.)
Front lens diameter	52 mm (2.05 in.)

Scope of delivery

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.03

T197922; IR lens, f=24.6 mm with case (25°)

General description

The standard 25° lens is suitable for the majority of applications.

Technical data

Field of view (FOV)	25° x 19° (31° diagonally)
Minimum focus distance	250 mm (9.84 in.)
Focal length	24.6 mm (0.97 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic

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Technical data

F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.160 kg (0.353 lb.)
Size (L × D)	41 × 67 mm (1.61 × 2.64 in.)
Front lens diameter	32 mm (1.26 in.)

Scope of delivery

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.03

T197915; IR lens, f=13.1 mm with case (45°)

General description

This wide angle lens has a field of view almost double that of the standard 25° lens. Perfect for wide or tall targets or when working in confined areas.

Technical data

Field of view (FOV)	45° x 34° (55° diagonally)
Minimum focus distance	150 mm (5.91 in.)
Focal length	13.1 mm (0.52 in.)
Spatial resolution (IFOV)	1.29 mrad
Lens identification	Automatic
F-number	1.0
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.209 kg (0.461 lb.)
Size (L × D)	50 × 67 mm (1.97 × 2.64 in.)
Front lens diameter	30 mm (1.18 in.)

Scope of delivery

- Lens
- Lens case
- Front lens cap
- Rear lens cap

v1.03

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T198059; Close-up IR lens, 2.9× (50 µm) with case

General description

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

Technical data

Field of view (FOV)	32 × 24 mm (40 mm diagonally)
Magnifying factor	2.9×
Working distance	84 mm
Depth of field	0.65 mm
Focal length	78 mm
Spatial resolution (IFOV)	50 µm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Weight	0.197 kg (0.43 lb.)
Size (L × D)	32 × 67 mm
Front lens diameter	53 mm

Scope of delivery

- Lens
- Front lens cap
- Rear lens cap
- Case
- Instruction for mounting close-up lenses

v1.02

T198060; Close-up IR lens, 5.8× (100 µm) with case

General description

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

Technical data

Field of view (FOV)	64 × 48 mm (80 mm diagonally)

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Technical data

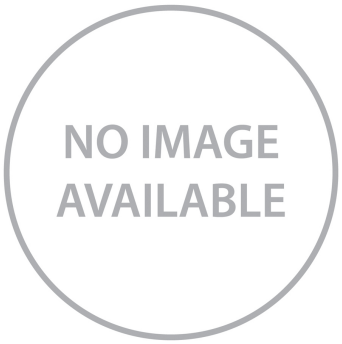
Magnifying factor	5.8×
Working distance	172 mm
Depth of field	2.8 mm
Focal length	149 mm
Spatial resolution (IFOV)	100 µm
Lens identification	Manual
F-number	1.0
Number of lenses	2 (2 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Lens note	The close-up lens is mounted on the 25° lens
Weight	0.176 kg (0.39 lb.)
Size (L × D)	28 × 67 mm
Front lens diameter	53 mm

Scope of delivery

- Lens
- Front lens cap
- Rear lens cap
- Case
- Instruction for mounting close-up lenses

v1.03

T198166; IR lens, f=88.9 mm with case and support (7°)



General description

The 7° lens is a popular accessory and provides 3.6× magnification compared to the standard lens. Ideal for small or distant targets such as overhead power lines.

Technical data

Field of view (FOV)	7° × 5.3° (8.7° diagonally)
Minimum focus distance	2.0 m (6.6 ft.)
Focal length	88.9 mm (3.5 in.)
Spatial resolution (IFOV)	0.19 mrad
Lens identification	Automatic
F-number	1.3
Number of lenses	3 (3 asph)
MTF @ 70% of FOV	Normal requirements (52%)
Distortion	3%
Weight	0.71 kg (1.565 lb.)
Size (L × D)	96 × 126 mm (3.78 × 4.96 in.)

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Technical data

Front lens diameter	96 mm (3.78 in.)

Scope of delivery

- Lens
- Lens case
- Front lens cap
- Rear lens cap
- Mounting support
- Lens mounting instructions

v1.06

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.)

Scope of delivery

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

v1.03

T198055; Battery

General description

High capacity battery for the IR camera.

Technical data

Battery type	Rechargeable Li Ion battery
Battery voltage	3.7 V

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Technical data	
Battery capacity	7.8 Ah
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging time	2.5 h to 90% capacity, charging status indicated by LED's
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)
Battery weight	0.173 kg (0.38 lb.)
Size (L × W × H)	84 × 49 × 60 mm (3.3 × 1.9 × 2.4 in.)

v1.05

T198126; Battery charger, incl. power supply with multi plugs T6xx

General description

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

Technical data	
Size (L × W × H)	50 × 133 × 50 mm (2.0 × 5.2 × 2.0 in.)

Scope of delivery

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

v1.01

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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Scope of delivery

- 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).

v1.0

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T910930; HDMI type C to DVI cable 1.5 m

General description

This cable is used to connect the infrared camera with an external display.

Technical data

Weight	159 g (5.6 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to DVI

v1.0

T910891; HDMI type C to HDMI type A cable 1.5 m

General description

This cable is used to connect the infrared camera with an external display.

Technical data

Weight	137 g (4.8 oz.)
Cable length	1.5 m (4.9 ft.)
Connector	HDMI type C to HDMI type A

v1.0

T197924; Hard transport case for T6xx series

General description

Rugged, watertight plastic shipping case for FLIR T6XX series. 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.

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Technical data

Weight	3.1 kg (6.8 lb.)
Size (L × W × H)	463 × 346 × 172 mm (18.2 × 13.6 × 6.8 in.)
Color	Black

Scope of delivery

- Hard transport case

v1.0

T197883; Large eyecap

General description

Soft eye cap for the viewfinder on the camera.

Technical data

Color	Black

Scope of delivery

- Eye cap

v1.0

T197753; Stylus pen

General description

The stylus pen is used to control the camera or entering data via the touch screen.

Technical data

Size (L × D)	94 × 10 mm (3.7 × 0.4 in.)
Color	Gray

Scope of delivery

- Stylus pen

v1.0

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T197731; Tripod Adapter

General description

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

Technical data

Size (L × W × H)	60× 36 × 20 mm (2.4 × 1.4 × 0.8 in.)
Color	Black

Scope of delivery

- Tripod Adapter

v1.01

1124544; Neck strap

General description

Neck strap to carry the camera.

Technical data

Color	Black

Scope of delivery

- Neck strap

v1.02

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T197771; Bluetooth Headset

General description

Headset with Bluetooth for wireless connection with the infrared camera.

Technical data

Bluetooth	Connection to the infrared camera
Audio	Headset including microphone

Scope of delivery

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

v1.10

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

General description

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

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

EX845 CAT IV Clamp Meter Features:

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General description

- Patented built-in non-contact IR Thermometer design with laser pointer
- True RMS Current and Voltage measurements
- Peak hold captures inrush currents and Transients
- MultiMeter functions include AC/DC Voltage, Resistance, Capacitance, Frequency, Diode, and Continuity
- 1.7" (43mm) jaw opening for conductors up to 750MCM or two 500MCM
- 4000 count backlit display
- Features include Data Hold and Min/Max and Auto Power off
- Autoranging with manual range button
- Complete with CAT IV test leads, 9V battery, Type K probe (-22 to 572°F/-30 to 300°C), pouch case, and Professional Test Lead Set

Professional Test Lead Features:

- 8-Piece Professional Test Lead set
- Two 42" (1m) PVC lead extensions with shrouded banana plugs at both ends
- Two modular 4" (102mm) Heavy Duty test probe handles with 0.16" (4mm) banana plug tip
- Two standard size, alligator clips with insulated rubber boot
- Two extra large, double-insulated, alligator clips with sharp teeth for piercing insulated wire. Jaws open to 0.8" (20mm)

v1.0

T910973; MO297: Moisture meter, pinless with memory

General description

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

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

Key features:

Optional Accessories

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General description

- Quickly indicates the moisture content of materials with Pinless technology without damaging the surface; Remote Pin-type probe (MO290-P included) allows for contact moisture readings (3ft/0.9m cable length)
- Manually store/recall up to 20 labeled readings
- Works on multiple wood types and other building materials
- Easy to read, large dual display with automatic backlight feature
- Simultaneously displays moisture value of wood or material being tested, Air Temperature, IR Temperature, or Humidity
- Pinless measurement depth to 0.75" (19mm) below the surface
- Programmable high/low Moisture and Humidity alarms
- Designed with a patented IR circuit to measure non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity
- Built-in Humidity/Temperature probe measures Relative Humidity, Air Temperature plus Grains Per Pound (GPP)/(g/kg), Dew Point (DP), Vapor Pressure, and condensation point
- Automatic calculation of differential Temperature (IR - DP) to determine condensation point
- Fast Analog Bargraph
- Min/Max and Data Hold
- Auto power off and low battery indication
- Complete with pin moisture probe with cable, 9V battery and case

v1.0

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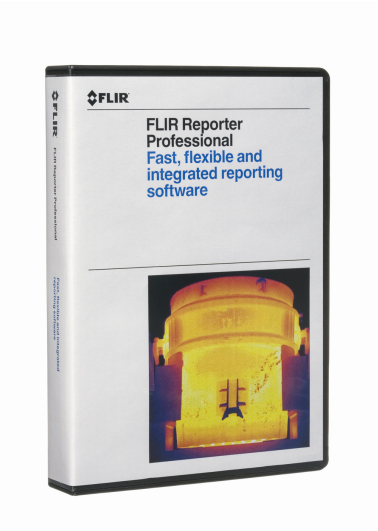
T197717; FLIR Reporter 8.5 SP3, Professional



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 SP3
New features	• --- 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) • --- News in SP2: • Office 2010 (32 bit) • Minor bug fixes • --- News in SP1: • Full support for Windows® 7 • Support for MeterLink™ data • *.docx compatibility

Scope of delivery

- FLIR Reporter Professional
- Getting Starting Guide

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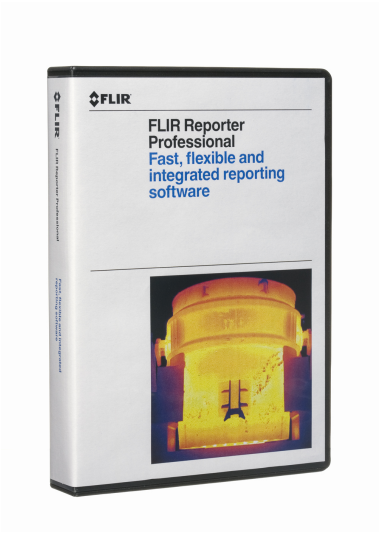
System requirements

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)

v1.04

T197717L5; FLIR Reporter 8.5 SP3, Professional, 5 user licenses



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 SP3

P/N: 55901-0402

Release notes

New features	• --- 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) • --- News in SP2: • Office 2010 (32 bit) • Minor bug fixes • --- News in SP1: • Full support for Windows® 7 • Support for MeterLink™ data • *.docx compatibility

Scope of delivery

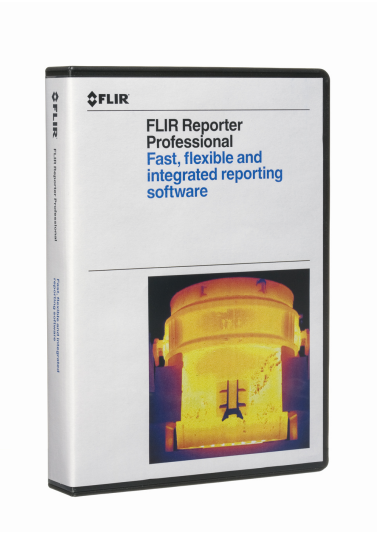
- FLIR Reporter Professional
- Getting Starting Guide
- 5 user licenses

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)

v1.03

T197717L10; FLIR Reporter 8.5 SP3, Professional, 10 user licenses



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Optional Software

P/N: 55901-0402

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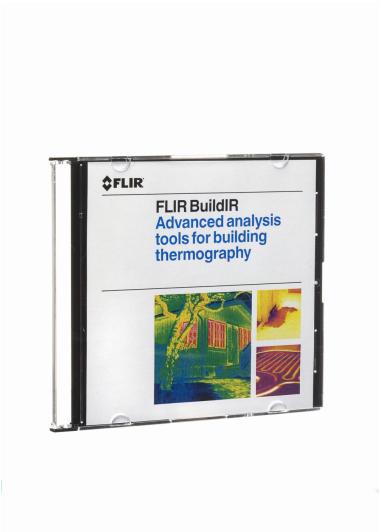
v1.03

P/N: 55901-0402

T197778; FLIR BuildIR 2.1



General description

FLIR BuildIR is a dedicated and flexible software package for advanced analyses of building-related applications. Make the work of building-related analyses considerably easier - organize, analyze, report. Increase the speed and quality of your reports.

Key features:

- See, quantify, and estimate potential energy cost savings.
- Image fusion.
- Facility to assess the scope of damage/problems.
- Customized report templates for air infiltration, moisture, insulation deficiencies, and estimation of potential energy savings.
- Panorama functionality: automatically create one image from several to cover large objects or increase resolution, including perspective corrections and crop function.
- Link and unlink files.
- Create a graph of the conditions during an inspection.
- Auto update function.
- Support for MeterLink data.
- Support for Microsoft Windows 7.

Download

To download, click the following link (a 30 day demo version available):

http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=87

Release notes

Version	FLIR BuildIR 2.1 SP3
New features	• --- News in SP3: • New user interface design • Various bug fixes • --- News in SP2: • Insulation alarm inverts cold/hot • IFOV implementation • Option to navigate between folders in the Tools tab. • Performance improvements • Faster application start-up • Various bug fixes

Scope of delivery

- FLIR BuildIR

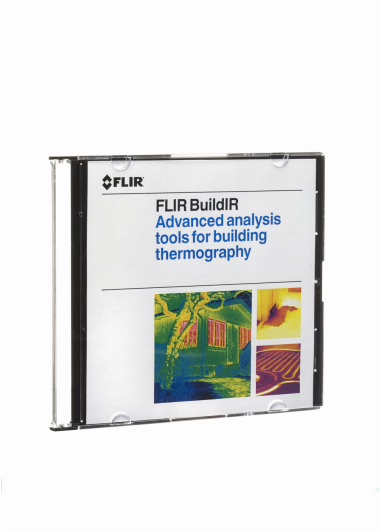
System requirements

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

v1.04

P/N: 55901-0402

T197778L5; FLIR BuildIR 2.1, 5 user licenses



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Scope of delivery

- FLIR BuildIR
- 5 user licenses

System requirements

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

v1.03

P/N: 55901-0402

T197778L10; FLIR BuildIR 2.1, 10 user licenses

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Scope of delivery

- FLIR BuildIR
- 10 user licenses

System requirements

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

v1.03

P/N: 55901-0402

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:

- 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 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 1.2 SP1
New features	• --- News in 1.2 SP1: • Various bug fixes.

Scope of delivery

- 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

v1.05

P/N: 55901-0402

T198206; FLIR ResearchIR 3.0

General description

FLIR ResearchIR is aimed at R&D users of uncooled infrared cameras who want an analysis of thermal events for design, product, or process reasons. FLIR ResearchIR gets the most from your infrared camera and allows high-speed recording and advanced thermal pattern analysis. Its powerful recording and processing options make FLIR ResearchIR the perfect companion for R&D work.

Key features:

- Visualizes thermal patterns.
- Flexible and ergonomic user interface.
- Powerful high-speed recording options with conditional start/stop.
- Advanced playback controls.
- Multiple measurement tools (line profile, area, spot).
- Emissivity calculator.
- Delta measurement.
- Processing filter chain with averaging, subtraction, and sliding subtraction.
- Advanced image colorization (multiple color palettes, color distribution patterns, advanced isotherms).
- Advanced export options (image, plot, and profile to the clipboard or a file either as a picture, movie, or CSV data)
- Fusion on still images.
- Contrast and palette isotherm.

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 3.0
New features	• --- News in 3.0:

Scope of delivery

- FLIR ResearchIR
- 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

v1.01

P/N: 55901-0402

APP-10000; FLIR Viewer (iPad/iPhone Application)

General description

FLIR Viewer - an intuitive iPhone/iPad app for analyzing, managing, and distributing infrared images.
With FLIR Viewer, you can exchange images between your camera and wireless device, analyze images (spot, level span and palette), read GPS position and map information, generate and email pdf-reports directly on an iPhone, iPod Touch or iPad.

Key features:

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

FLIR Viewer PRO adds FTP and image management features:

- FTP (Uploading images to a server)
- Box support
- DropBox support
- Downloadable palettes
- Area, Line and Circle tools
- Automatic hot and cold detection
- DeltaT
- Possibility to add your own logo to the reports

Download

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

http://itunes.apple.com/se/app/flir-ir-viewer/id408847159?mt=8#ls=1

Release notes

Version	FLIR Viewer 1.1.1
New features	• --- News in 1.1.1 • Easier method to select a customer logo. • Additional properties now added. e.g., image size, camera type, and lens type. • Updated translations. • Various bug fixes.

System requirements

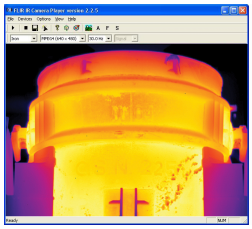
Operating system	• iOS 4.0 or higher
Hardware requirements	• iPhone • iPad • iPod

P/N: 55901-0402

System requirements

v1.04

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	• --- 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.

System requirements

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

v1.02

P/N: 55901-0402

APP-10001; FLIR Remote (iPad/iPhone Application)

General description

FLIR Remote is an iPhone/iPad app for the remote control of FLIR T6xx series cameras that support Wi-Fi.
FLIR Remote lets thermograhers use an iPad, iPhone, or iPod touch to see and capture live, streaming infrared video and stills from select FLIR cameras. The app allows users to remotely control the camera functions from the device.

With FLIR Remote, the camera can be stationed in one area and operated wirelessly from another – highly useful for IR inspections of energized equipment or performing IR surveys in hard-to-reach locations and harsh working environments. Streaming video and remote access gives decision makers and others on your team a valuable opportunity to observe and collaborate in the thermal imaging process.

Key features:

- Select camera
- View live images

Using the pay version of FLIR Remote, you can do the following:

- Change image mode, i.e., infrared, visual, fusion, and picture-in-picture.
- Change object parameters, e.g., emissivity, reflected apparent temperature, and object distance.
- Change the temperature range.
- Turn on and turn off the video lamps.
- Display system information.
- Focus the camera.
- Automatically and manually adjust the camera.
- Change the color palette.
- Lay out, move, and resize measurement tools.
- Take a picture.
- Set the camera to automatically take a visual image when taking an infrared image.
- Record video clips.
- Change various settings, e.g., video quality.
- Adjust the temperature scale.
- Save, e-mail, and export images.
- Manage files in the image archive.

Download

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

http://itunes.apple.com/us/app/flir-remote/id449160458?mt=8

Release notes

Version	FLIR Remote 1.01
New features	• --- News i 1.01 • Various bug fixes. • Improved performance.

System requirements

Operating system	• iOS 4.0 or higher
Hardware requirements	• iPhone • iPad • iPod

v1.05

P/N: 55901-0402

APP-10002; FLIR Tools Mobile (Android Application)

General description

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

Key features:

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

Download

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

https://market.android.com/details?id=com.flir.viewer

Release notes

Version	FLIR Tools Mobile 1.0

System requirements

Operating system	• Android 2.3 and later

v1.02