

### **FLIR T-Series** 640 x 480

FLIR T640

First Choice for Professional Thermographers

The exciting new FLIR T640 moves to the head of its class in professional and expert level cameras, providing the highest infrared resolution in the T-Series line and a new list of impressive features.

- 5 MP visible light camera with lamp
- 4.3" Bright Touch-screen LCD
- 8× Digital Zoom
- Voice, text, sketch, and draw-direct annotation



5 MP Digital Camera

with Lamp



Touch-Screen

thermal images

Instant Reports

• Realtime video frame rate

Tiltable Lens



Temperature

- FLIR T640 Features
- New! Highest IR Resolution in Its Class - Crisp thermal images up to 307,200 pixels (640 x 480) for greater accuracy and readability from longer range distances
- Wide Temperature Range Measures . from -40°C to +2000°C
- **New! Higher Resolution Digital** Camera - 5 megapixel detector with LED lamps provides sharper visible light images for clear reference pictures of target objects
- New! Large Touch-screen 4.3" LCD displays bright, sharp images and graphics with intuitive interface and efficient on-screen report generation
- Viewfinder Built-in color viewfinder for easier viewing in bright environments

- **New! More Measurement Tools** - Report further details with 10 measurement spots, 5 box areas, Delta T-Differential temperature, isotherm, and auto hot/cold markers
- High Thermal Sensitivity -Sensitivity of 0.04°C at 30°C. Detailed, low-noise imaging to detect the smallest temperature differences and subtle problems
- Ergonomic Tilting Lens Popular T-Series design allows 120° rotation of optical block for more comfortable operation when capturing images from challenging angles
- Advanced Optics A range of lenses to fit your application needs including the standard 25° and optional 15°, and 45° optics

- Thermal Fusion and P-i-P Blend thermal and visible light images onscreen and scale picture-in-picture overlays to identify targets and locations easily
- Video Recording MPEG4 nonradiometric IR or daylight video recording to SD card
- 8x Digital Zoom Measurement presets and Line profile
- Realtime video frame rate
- Instant Reports

# Applications





## FLIR T640 Specifications

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	25° × 19° / 0.25 m (0.82 ft.)
Spatial resolution (IFOV)	0.68 mrad
Thermal sensitivity/NETD	<40 mK@+30°C(+86°F)
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Zoom	1—8× continuous, digital zoom, including panning
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.8–14 µm
IR resolution	640 × 480 pixels
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
Manual image adjustment	Level/span/max/min
Image modes	IR image, visual image, thermal fusion, Picture-in-Picture, thumbnail gallery
Thermal fusion	IR image shown above, below or within temp interval on visual image
Picture-in-Picture	Resizable and movable IR area on visual image
Measurement	
Temperature range	$\begin{array}{l} -40^\circ C \ to \ +150^\circ C \ (-40^\circ F \ to \ +302^\circ F), \ +100^\circ C \ to \ +650^\circ C \ (+212^\circ F \ to \ +1202^\circ F) \\ +300^\circ C \ to \ +2000^\circ C \ (+572^\circ F \ to \ +3632^\circ F) \end{array}$
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurementanalysis	
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 temperatu
Reference temperature	Manually set or captured from any measurement function
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission, atmospheric trans and external optic
Set-up	
Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
•	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat
Color palettes	Configure information to be shown in image; programmable button; local
Color palettes Set-up commands Camera software update	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat
Color palettes Set-up commands Camera software update Storage of images	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card IR/visual images, simultaneous storage of IR and visual images.
Color palettes Set-up commands Camera software update Storage of images Image storage Image storage mode	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card
Color palettes Set-up commands Camera software update Storage of images Image storage Image storage mode Video recording in camera and streaming to PC	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped together
Color palettes Set-up commands Camera software update Storage of images Image storage Image storage mode Video recording in camera and streaming to PC Non-radiometric IR and Digital camera video recording	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped together MPEG-4 to memory card
Color palettes   Set-up commands   Camera software update   Storage of images   Image storage   Image storage mode   Video recording in camera and streaming to PC   Non-radiometric IR and Digital camera video recording   Non-radiometric IR and Digital streaming	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped together
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Color palettes   Set-up commands   Camera software update   Storage of images   Image storage   Image storage mode   Video recording in camera and streaming to PC   Non-radiometric IR and Digital camera video recording   Non-radiometric IR and Digital streaming   Data communication interfaces   Interfaces   USB   Video out   Video, connector type   Power system   Battery   Charging system   Power management   Environmental data   Operating temperature range   Storage temperature range   Humidity (operating and storage)   Encapsulation   Bump   Vibration   Physical data   Weight	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped together MPEG-4 to memory card MPEG4 using USB USB-mini, USB-A, Digital Video Output • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC / streaming Digital Video Output (IOVI) HDMI compatible Li lon, 3 hours operating time In camera (AC adapter or 12 V from a vehicle) or 2-bay charger Automatic shutdown and sleep mode (user selectable) -15°C to +50°C (+5°F to +122°F) -40°C to +70°C (-40°F to +158°F) IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C / 2 cycles IP 54 (IEC 60058) 25 g (IEC 60068-2-6) 1.3 kg (2.87 lb.)
Color palettes   Set-up commands   Camera software update   Storage of images   Image storage   Image storage mode   Video recording in camera and streaming to PC   Non-radiometric IR and Digital camera video recording   Non-radiometric IR and Digital streaming   Data communication interfaces   Interfaces   USB   Video out   Video, connector type   Power system   Battery   Charging system   Power management   Environmental data   Operating temperature range   Storage temperature range   Humidity (operating and storage)   Encapsulation   Bump   Vibration   Physical data   Weight   Size (L×W×H)	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software updat Use PC software FLIR Tools Standard JPEG, including measurement data, on memory card IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped together MPEG-4 to memory card MPEG4 using USB USB-mini, USB-A, Digital Video Output • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC / streaming Digital Video Output (DVI) HDMI compatible Li Ion, 3 hours operating time In camera (AC adapter or 12 V from a vehicle) or 2-bay charger Automatic shutdown and sleep mode (user selectable) 15°C to +50°C (+5°F to +152°F) 40°C to +70°C (-40°F to +158°F) IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C / 2 cycles IP 54 (IEC 60068-2-29) 25 g (IEC 60068-2-6) 1.3 kg (2.87 lb.) 1.3 kg (2.87 lb.)
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Lens IR f=41.3 mm with case (15°), Lens IR f=24.6 mm with case (25°) Lens IR f=13.1 mm with case (45°)





Allows for easier identification and interpretation of infrared images. This advanced technology enhances the value of an infrared image by allowing you to overlay it directly over the corresponding visible image. This functionality combines the benefits of both the infrared image and visual picture at the push of a button.



### Training

The center offers a wide variety of infrared courses from entry-level thermography to advanced IR training. ITC infrared thermography certifications are globally recognized and are designed to exceed the requirements of international certification standards.

Check the ITC course schedule in the Asia Pacific region: www.flir.com/thg/itc



#### Optional . Software FREE FLIR

QuickReport™ Allows the user to organize, analyze and present infrared image data in a report. Delivered with your FLIR camera. FLIR Reporter™

A powerful yet easy-to-use tool to generate comprehensive and professional infrared inspection reports.

FLIR BuildIR™ Software designed to carry out advanced analysis of building

structures. It is used to analyze images taken with an infrared camera and create inspection reports based on these images.

Accessories Pouch

Extra battery Battery charger , Car charger Selection of lenses

LIR®

Asia Pacific Headquarters Hong Kong +852 2792 8955 flir@flir.com.hk | China +86 21 5169 7628 info@flir.cn

**FLIR offices in Asia Pacific** 

Australia +61 3 9550 2800 info@flir.com.au | Japan +81 3 6277 5681 info@flir.jp | Korea +82 2565 2714 sales@flirkorea.com India +91 11 4606 7100 flirindia @flir.com.hk | Taiwan +886 2 2757 9662 flir@flir.com.hk

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