

# Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

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
- P-i-P and fusion to superimpose thermal images
- Realtime video frame rate
- MPEG4 streaming video over Wi-Fi
- Instant Reports









5 MP Digital Camera with Lamp Multifunction 3.5" Tiltable Lens Touch-Screen Wi-Fi Connectivity

Delta T-Differential 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
- New! Wi-Fi Connectivity Send images and data to mobile devices like an iPhone, iPad or PC to share critical information quickly
- Viewfinder Built-in color viewfinder for easier viewing in bright environments

## Applications

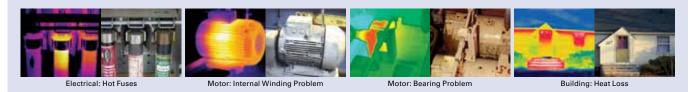
- New! More Measurement Tools

   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
- Bluetooth Communication Link and store moisture and clamp meter readings with IR images wirelessly to support your findings

 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

FLIR

- Video Recording MPEG4 nonradiometric IR or daylight video recording to SD card
- 8x Digital Zoom Measurement presets and Line profile
- Realtime video frame rate
- Streaming MPEG4 streaming video over Wi-Fi
- Instant Reports



### 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	Built in Tauch correct 4.2 in uside correct I CD 900 490 nivele
Display Viewfinder	Built-in Touch-screen, 4.3 in. wide screen LCD, 800 × 480 pixels 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
lmage modes	IR image, visual image, thermal fusion, Picture-in-Picture, thumbnail gallery
Thermalfusion	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	-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
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
lsotherm	Above/below/interval
Profile	1 live line
Measurement presets	Yes
Difference temperature	Delta temperature between measurement functions or reference temperatur
Reference temperature Emissivity correction	Manually set or captured from any measurement function 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
Set-up commands	Configure information to be shown in image; programmable button; local
Comoro coftuero undato	adaptation of units, language, date and time formats, camera software update Use PC software FLIR Tools
Camera software update Storage of images	USE PC SOLWATE PLIN TOOIS
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images, simultaneous storage of IR and visual images.
	Visual and IR image automatically grouped together
Video recording in camera and streaming to PC	
Non-radiometric IR and Digital camera video recording	MPEG-4 to memory card
Non-radiometric IR and Digital streaming	MPEG4 using USB
Data communication interfaces Interfaces	USP mini USP & Plustooth Wi Ei DigitalVideo Qutaut
Bluetooth	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output Communication with headset and external sensors
Wi-Fi	Wireless communication between camera and external device
USB	USB-A: Connect external USB device
	• USB Mini-B: Data transfer to and from PC / streaming
Video out	Digital Video Output (DVI)
Video, connector type	HDMI compatible
Powersystem	
Battery	Li lon, 3 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Power management	Automatic shutdown and sleep mode (user selectable)
Power management Environmental data	Automatic shutdown and sleep mode (user selectable)
Power management Environmental data Operating temperature range	Automatic shutdown and sleep mode (user selectable) -15°C to +50°C (+5°F to +122°F)
Power management Environmental data Operating temperature range Storage temperature range	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)
Power management Environmental data Operating temperature range Storage temperature range Humidity (operating and storage)	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
Power management Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation	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 60529)
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Power management Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Bump	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 60529)
Power management Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Bump Vibration Physical data Weight	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 60529) 25 g (IEC 60068-2-29)
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Power management Environmental data Operating temperature range Storage temperature range Humidity (operating and storage) Encapsulation Bump Vibration Physical data Weight Size (L×W×H) Tripod mounting	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 60529) 25 g (IEC 60068-2-29) 2 g (IEC 60068-2-6) 1.3 kg (2.87 lb.)
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### **METER LINK** 🚯 Bluetooth



### What is MeterLink™?

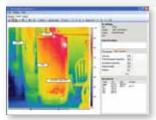
MeterLink displays and documents readings from your Extech moisture or clamp meter directly on your infrared image using Bluetooth wireless connection. MeterLink, a FLIR industryfirst technology, will greatly improve your diagnostics, save time annotating readings, eliminate data errors, and add more customer value to your reports.



#### 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.

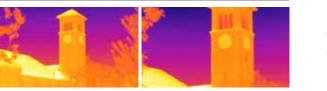
#### FLIR Reporter™

A powerful yet easyto-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



45° Lens www.flir.com

25° Lens

Lens IR f=13.1 mm with case (45°)

15° Lens



### **FLIR offices in Asia Pacific**

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