

Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service



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
- 8x 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













Delta T-Differential Temperature

Tiltable Lens

Wi-Fi Connectivity

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

- **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
- 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

Applications









Motor: Internal Winding Problem

Building: Heat Loss

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
IRresolution	640 × 480 pixels
Image presentation	D. Nr.: T. J
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,
Automatic image adjustment	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	4000 45000 4005 00005 40000 05000 04005 400005
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
Isotherm	Above/below/interval
Profile	1 live line
Measurement presets	Yes
Difference temperature Reference temperature	Delta temperature between measurement functions or reference temperatur 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
Set-up commands	Configure information to be shown in image; programmable button; local
0 6	adaptation of units, language, date and time formats, camera software update
Camera software update Storage of images	Use PC software FLIR Tools
Image storage	Standard JPEG, including measurement data, on memory card
Image storage Image storage mode	IR/visual images, simultaneous storage of IR and visual images.
mago otorago modo	Visual and IR image automatically grouped together
Video recording in camera and streaming to PC	70 1
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	LICE arisi LICE A Physically Mi Fi Dirital Video Cotout
Interfaces Bluetooth	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output Communication with headset and external sensors
140 80	
USB	Wireless communication between camera and external device 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	111 01 2 2
Battery	Li lon, 3 hours operating time
Charging system Power management	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger Automatic shutdown and sleep mode (user selectable)
Environmental data	Automatic shutuown and sleep mode (user selectable)
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/2 cycles
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Physical data	101-700715
Weight	1.3 kg (2.87 lb.)
Size (L×W×H) Tripod mounting	143×195×95 mm (5.6×7.7×3.7 in.) UNC ¼"-20
Optional lens	UNU 74 -ZU
- Сримин топо	Lens IRf=41.3 mm with case (15°), Lens IRf=24.6 mm with case (25°)





What is MeterLink™?

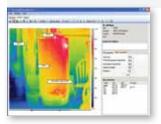
MeterLink displays and documents readings from your Extech moisture or clamp meter directly on your infrared image using Bluetooth wireless connection. MeterLink, a FLIR industryfirst technology, will greatly improve your diagnostics, save time annotating readings, eliminate data errors, and add more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

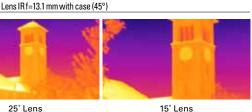
Pouch Extra battery Battery charger Car charger Selection of lenses



45° Lens



25° Lens





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