FLIR T620 & T640

High performance thermal imaging with on-board 5MP visual camera, interchangeable lens options with autofocus, and large 4.3” touchscreen LCD

These thermal cameras combine excellent ergonomics with superior image quality, providing the ultimate image clarity and accuracy plus extensive communication possibilities:

**Highest IR Resolution in Its Class** – Crisp thermal images with 307,200 pixels (640 x 480) for the best detection, pictures, and temperature measurements from long range

**MSX® Enhancement** – Multi-Spectral Dynamic Imaging adds visible spectrum definition to IR images in real time for excellent thermal detail to help you instantly recognize the problem locations

**Field of View (FOV) Match** – Option to match the visible camera field of view to the IR FOV for better documentation

**GPS and Compass** – Automatically adds geo-location data and camera pointing direction to images to include in reports

**Programmable Button** – Provides easy access to favorite functions

**Wi-Fi Connectivity** – Send images and data to smartphones and tablets and share critical information quickly with the FLIR Tools Mobile for Apple® and Android™, featuring live video streaming and remote control via the mobile device

**Accuracy** – Calibrated within +/- 2°C or +/- 2% of reading

**High Temperature Range** – measures to 3632°F (2000°C) targeting electrical/industrial applications (T620 to 1202°F/650°C)

**Scalable P-i-P and Fused Thermal Images** – Blend thermal with visible light images on-screen; includes picture-in-picture window sizing

**Multiple Measurements** – Report all the details with 10 measurement spots, 5 box areas, Delta T temperature differential, isotherm, and auto hot/cold markers

**METERLINK®** – Wirelessly transmit vital diagnostic data from clamp and moisture meters directly to the camera for annotating thermal images to further support findings.

**Annotation** – Add voice comments via Bluetooth headset and text notes from the touchscreen keypad. New! T640 has image sketch feature to draw circles and pointers on IR/Visual stored images

**InstantReport** – Create PDF document directly from the camera

**Includes** – (see back specification chart for included accessories)
FLIR T620
7.5 to 14µm
Indicates direction camera is pointing for target documentation
- 25° x 19° / 0.82ft (0.25m) / Field of View
- Match where Digital Image FOV adapts to the IR lens
- <0.035°C at 30°C
- -40°F to 3632°F (-40°C to 2000°C)
- Mode selector, color palettes, configure info to be shown in image, local adaptation of units,

FLIR T640
- 30Hz
- Voice (60 sec); text comments, Sketch
- 5.6 x 7.7 x 3.7" (143x196x94mm)/2.87lbs (1.3kg), including battery
- <0.04°C at 30°C
- Reflected ambient temperature & emissivity correction
- Color Viewfinder for viewing images in bright or sunny conditions
- Draw on stored images right on touchscreen
- In camera AC adapter/2 bay charging system
- Presets for standard measurements
- Shows a live graph of temperatures across a line on the image

**Applications**
- Utility Market — Use infrared cameras to locate problems, detect hot spots and other problems before they turn into costly failures & production downtime or electrical fires.
- Electrical Inspectors — With FLIR thermal imaging cameras electrical contractors can scan electrical cabinets/panels and components for a non-contact view of conditions.

**Imaging Specifications**

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>FLIR T620</th>
<th>FLIR T640</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-40°F to 1202°F (-40°C to 650°C)</td>
<td>-40°F to 3632°F (-40°C to 2000°C)</td>
</tr>
<tr>
<td>Thermal sensitivity (N.E.T.D)</td>
<td>&lt;0.04°C at 30°C</td>
<td>&lt;0.035°C at 30°C</td>
</tr>
<tr>
<td>Zoom</td>
<td>4X Continuous</td>
<td>BX Continuous</td>
</tr>
<tr>
<td>Focus</td>
<td>Manual or Automatic (one shot)</td>
<td>Continuous, Manual or Automatic (one shot)</td>
</tr>
<tr>
<td>LCD Image Sketch</td>
<td>—</td>
<td>Draw on stored images right on touchscreen</td>
</tr>
<tr>
<td>Viewfinder</td>
<td>—</td>
<td>Color Viewfinder for viewing images in bright or sunny conditions</td>
</tr>
<tr>
<td>Measurement Presets</td>
<td>—</td>
<td>Presets for standard measurements</td>
</tr>
<tr>
<td>Profile Measurement Analysis</td>
<td>—</td>
<td>Shows a live graph of temperatures across a line on the image</td>
</tr>
</tbody>
</table>

**COMMON FEATURES**
- Multi-Spectral Dynamic Imaging (MSX)
- IR image with enhanced detail presentation
- GPS
- Location data automatically added to every image from built-in GPS
- Compass
- Indicates direction camera is pointing for target documentation
- Frame Rate
- 30Hz
- Field of view/Minimum focus distance/FOV Match
- 25° x 19° / 0.82ft (0.25m) / Field of View Match where Digital Image FOV adapts to the IR lens
- Detector Type - Focal plane array (FPA) uncooled microbolometer
- 640 x 480 pixels
- Spectral range
- 7.5 to 14µm
- Lens
- 25° or 45° models (optional 7°, 15°, 25°, 45°, 80°, Close up 100, 50µm lenses available)
- Display
- Built-in touch-screen 4.3" color LCD (800 x 480 pixels)
- Image modes
- Thermal/Visual/Fused thermal image/P-i-P/MSX (Resizable and movable) and Thumbnail Gallery
- 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 Storage
- 1000 radiometric JPEG images (SD card memory)
- Image annotation
- Voice (60 sec); text comments, Sketch
- Periodic image storage
- 7 seconds to 24 hours (IR) and 14 seconds to 24 hours (IR and visual)
- Video Lamp
- Bright LED lamp
- Laser Classification/Type
- Class 2/Semiconductor AlGaInP Diode Laser: 1mW/635nm (red)
- Set-up controls
- Mode selector, color palettes, configure info to be shown in image, local adaptation of units, language, date and time formats, and image gallery
- Measurement modes
- 10 Spotmeters, 5 Box areas, Isotherm, Auto hot/cold spot, Delta T
- Measurement correction
- Reflected ambient temperature & emissivity correction
- GPS
- Location data automatically added to every image from built-in GPS
- Video Recording in Camera and Video Streaming
- Non-radiometric IR-video recording (MPEG-4 to memory card), Visual and Radiometric IR-video streaming (Full dynamic to PC using USB or Wi-Fi), and Non-radiometric IR-video streaming (MPEG-4 using Wi-Fi and uncompressed colored video using USB)
- Battery Type/operating time
- Li-ion/2.5 hours, Display shows battery status
- Charging system
- In camera AC adapter/2 bay charging system
- Shock / Vibration / Encapsulation; Safety
- 25G, IE 60068-2-29 / 3G, IE 60068-2-6 / IP54; EN/UL/CSA/PSE 60950-1
- Dimensions/Weight
- 5.6 x 7.7 x 3.7" (143x196x94mm)/2.87lbs (1.3kg), including battery
- Accessories included
- SD Memory Card, 100-260V AC adaptor/charger, two Li-ion rechargeable batteries, 2-bay battery charger, power supply (with multi-plugs), FLIR Tools® software, USB cable, video cable, Bluetooth® headset, lens cap, neckstrap, and hard case

**Accessories**
- Li-Ion Rechargeable Battery
- Cigarette Lighter Adapter Kit, 12VDC (1.2m cable)
- 2-Bay Battery Charger including Power Supply (multi-plugs)
- Camera Pouch Case

**Ordering Information**
- FLIR T620 Thermal Imaging IR Camera (640x480) with Wi-Fi and standard 25° Lens
- FLIR T640 Thermal Imaging IR Camera (640x480) with Wi-Fi plus 45° Lens
- FLIR T620 Thermal Imaging IR Camera (640x480) with Wi-Fi and standard 25° Lens
- FLIR T640 Thermal Imaging IR Camera (640x480) with Wi-Fi plus 45° Lens

**Warranty**
- 10-Year Detector Protection
- 5-Year Battery
- 2-Year Parts & Labor (when camera is registered within 60 Days)

**Equipment**
- Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.

**Contact Information**
- FLIR Systems, Inc.
  - Ph: +1 866.477.3687
- FLIR Systems, Ltd.
  - Ph: +1 800.613.0507
- FLIR Systems Brasil
  - Av. Antonio Bardella
  - Ph: +55 15 3238 8070
- FLIR Systems®
  - NASDAQ: FLIR
  - www.flir.com

**Information**
- info@FLIR-Direct.com
- FLIR-DIRECT.com 1.888.610.7664