TE-640 is an affordable thermal camera in the market, with 30Hz frame rate, multi functions and wide temperature measurement range. It provides ultimate inspection tools and unprecedented easy-to-use designs to fit your needs. Whether in quality control, process monitoring or process automation - the infrared camera TE-640 measures temperatures without contact exactly and reliably. The device is durable, robust and suitable for industrial continuous operation.

It is available in 640 x 480 Pixels resolution. It works at wavelength range from 8 - 14 μm.

The modular thermal image processing software INFRAVIEW is customizable with Client-Server Architecture for catering to multiple clients at the same time. It can be configured / customized to cater to application / solution requirements. It is supplied with every TE-640 Camera.

<table>
<thead>
<tr>
<th>Detector Data</th>
<th>Lens Data</th>
<th>Image &amp; Temperature Measurement Performance</th>
<th>Data Storage</th>
<th>Power System</th>
<th>Environmental Data</th>
<th>Physical Data</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>FOV</td>
<td>E-zoom</td>
<td>Image</td>
<td>Network Interface</td>
<td>Operation Temperature Range</td>
<td>Weight</td>
<td>Standard</td>
</tr>
<tr>
<td>IR Resolution</td>
<td>Focus</td>
<td>Temp. Measurement</td>
<td>BMP/JPG format</td>
<td>100M ethernet, RJ45 interface, temperature data transmission</td>
<td>-10°C ~ +60°C</td>
<td>290g without lens</td>
<td>Thermal Imaging camera LTE 640(w/20mm lens) Integration cable, Software CD-ROM, Warranty card, registration card, Calibration certificate, Packing kit</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>Lens Type</td>
<td>Temp. measurement</td>
<td>Video</td>
<td>CVBS interface</td>
<td>Storage Temperature Range</td>
<td>Size</td>
<td></td>
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<tr>
<td>Spectral Range</td>
<td>FOV</td>
<td>calibration</td>
<td>Report Generation</td>
<td>Analog video output, offering ground observation information</td>
<td>-40°C ~ +70°C</td>
<td>92 x 62 x 52 mm without lens</td>
<td></td>
</tr>
<tr>
<td>NETD</td>
<td>Focus</td>
<td>Hot Spot Tracking</td>
<td>Word format, customization possible</td>
<td>Power interface</td>
<td>Humidity ≤ 95% (non-condensing)</td>
<td>Mounting</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>Lens Type</td>
<td>Setting</td>
<td>I/O</td>
<td>DC12V</td>
<td>Encapsulation</td>
<td>UNC 1/4&quot; - 20 standard mount, M3 thread</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Emissivity Correction</td>
<td>Power Consumption</td>
<td>4 Analog O/P &amp; 4 Digital I/O (Optional)</td>
<td>Shock</td>
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<td></td>
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<td>Background temperature correction</td>
<td>4W</td>
<td>25G, IEC60068-2-29</td>
<td>Vibration</td>
<td>2G, IEC60068-2-6</td>
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<td>Optical filter/Window transmittance</td>
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<td>EMC</td>
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<td>correction</td>
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<td>CE/FCC</td>
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<td>Atmospheric transmittance correction</td>
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<td>Physical Data</td>
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<td>Weight 290g without lens</td>
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<td></td>
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<td></td>
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<td>Size</td>
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<td></td>
<td>Mounting UNC 1/4&quot; - 20 standard mount, M3 thread</td>
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<td>Packing</td>
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</tbody>
</table>
**Special Features**

- Configurable ROI's: point, line, free shape rectangle
- Trend charts
- Histogram and isotherm visualization
- Alarm output
- Hot and cold spot detection
- Video and Image saving
- Color palette scaling
- Server client configuration

**Accessories**

**Housing Unit**

- **ACH-10**
  IP 66 Single Camera Housing with Sunshield Built-in wiper/Fan/Heater & Ge window
  (Reference no: 9100-03)

- **ACH-30-1/2**
  IP 55/66 Dual Camera Housing with Sunshield Built-in wiper/Fan/Heater & Ge window
  (Reference no: 9100-04
  Reference no: 9100-05)

- **ACH-EX 20**
  Single camera housing with ATEX certification and Ge Window
  (Reference no: 9100-06)
Accessories

Visible Camera Option
- AVC - 36 (36 x optical zoom) Ref. No. - 9100-08
  (Sony 2 MP CMOS Sensors)
- AVC - 20 (20 x Optical Zoom) Ref. No. - 9100-09
  (Sony 2 MP CMOS Sensors)

48 VDC 7 A SMPS
- 48 VDC 7 A Integrated Power Supply for Combined Unit Camera (Thermal & Visual, PT System & Housing)
  Ref. No. - 9100-10

I/O Module
An I/O module acts as an interface between computer and thermal camera. The I/O module provides analog and relay outputs with respect to temperature. These outputs can be customized for temperature indication, alarm generation or error reporting.
- All I/O are user settable for range and ROI selection
- 4 analog outputs 4-20mA
- 2 Relay Outputs
- 2 Isolated Digital Inputs for triggering
- I/O can be customized according to user requirement
- I/O works on Ethernet
- Din rail Mounting for Easy Installation

PC Specifications
Processor : Intel i7 8th Generation or Higher
RAM : 8 GB
GPU : 2 GB
HDD : 1 TB
Operating System : Windows 10

Applications
- Quality Management
- Process Automation and Process Control
- Research & Development Projects : Non-Destructive Testing of materials, Studies of Aspects in Veterinary Medicines
- Early fire detection in storage buildings, forests and even in cities.
- Traffic Control
- Process Control in Metallurgy
- Inspection of electrical equipment
- Building thermography around thermal bridges and localization of weak points in walls

Standard Accessories
- 12 VDC power supply
- Ethernet cable 5 mtr.
- Infraview Software
Included in standard package with LTE 640 camera