



## T-Cam 640



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# T-Cam 640

The T-Cam 640 thermographic camera has superior thermal imaging, with multiple image presentation including IR, visible, PIP, and IR blending. Save 640x480 resolution images as JPG or RAW, and create PDF documents using the powerful on-board analysis and reporting capabilities; analysis reports can also be printed instantly on a WiFi printer. The T-Cam 640 features a 1280x960 LCOS viewfinder, rotatable 5" (1280x720) LCD High Light Touch Screen, with 8 Spots, 8 Lines, and 8 Areas of measurement, 60 seconds of voice annotation per image, and soft key text annotation. Optional high temperature range measuring up to 2000°C (3632°F) targeting electrical and industrial applications. IR Flash Software included.



## Features

- Visual & Voice Temperature Alarm
- Collect Radiometric Temperature Data
- Rotatable 5" (1280x720) LCD Touch Screen
- 5MP Visual Camera
- 60 Seconds Voice Annotation per Image
- Soft Key Text Notation & Sketch on image
- Syncs to Network printer via WiFi
- 8 Spots, 8 Lines, 8 Areas of Measurement
- Sleep Mode to save Power
- Low Power (<5 Watts)
- Compact / Portable

## Applications

- Industrial
- Scientific Research
- Building Inspections
- Electrical Inspection
- Predictive Maintenance
- HVAC

## Options & Accessories

- 2x Telephoto Optic
- 2x Wide Angle Optic
- 13mm Motorized Focus Lens (45.4°x34.9° FOV)
- 25mm Motorized Focus Lens (24.6°x18.5° FOV)
- 55mm Motorized Focus Lens (11.3°x8.5° FOV)
- High-temp Flame Filter
- Bluetooth (Optional)
- Extra Battery

## Software Options

- IR Flash Software
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)

## Specifications

- **Detector Array:** Uncooled FPA Microbolometer
- **Pixel Pitch:** 15µm
- **Pixel Resolution:** 640x480
- **Spectral Band:** 8µm - 14µm
- **NETD Sensitivity:** <.04°C at 30°C
- **Frame Rate:** 50Hz or 60Hz (Optional: 9Hz)
- **Dynamic Range:** 8 bit or 14 bit
- **Temp Range:** -20°C to 250°C or 200°C to 800°C (Optional: 2000°C)
- **Operation Range:** -40°C to 70°C
- **Storage Range:** -40°C to 70°C
- **Accuracy:** +/- 1°C
- **Pixel Operability:** >99%
- 25G Shock / 2G Vibration
- **Dimensions:** 140mmx206mmx114mm with lens (HxWxD +/- .5mm)
- **Weight:** 1.15kg - without battery
- **Encapsulation:** IP54
- **Battery:** Li-ion, Rechargeable & Replaceable  
12V DC/ AC Adapter
- **Operation Time:** ≥ 4 Hours
- **Screen:** 5" (1280x720) LCD Touch Screen
- **Viewfinder:** 1280x960 LCOS Screen
- **Digital Zoom:** 1.1~4x continuously
- **Memory Card:** SD Card
- **Image Internal Storage:** 16G
- **Image Modes:** IR image/Visual image/PIP/MIF
- **Image Format:** JPG or RAW
- **Video Storage:** Internal
- **Video Output:** H.264
- **Voice Annotation:** 60 Seconds
- Speaker & Microphone w/ Adjustable Volumes
- **Humidity:** non-condensing b/t 10%-95%
- Micro USB 2.0 for Power & Data
- Mini HDMI
- Illuminator
- Laser & Light Sensor
- **Focus:** Motor-drive / Auto
- Built in Shutter