



# LAUNCH THERMAL IMAGING CAMERA TI-201



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# LAUNCH THERMAL IMAGING CAMERA

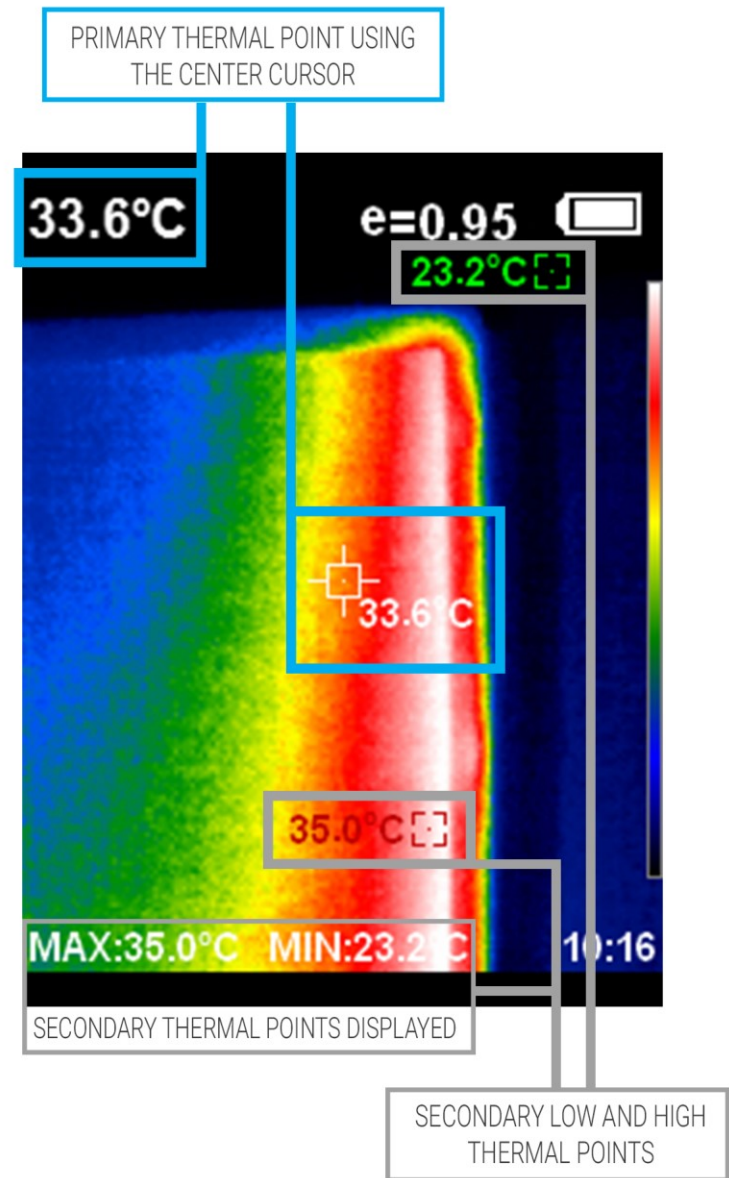
## TIT-201

The Launch thermal imaging camera provides a reliable and accurate non-contact method for pinpointing thermal variations or profiles so you can start working through possible solutions.

Thermal imaging is created in real-time, through infrared detectors and an optical imaging lens, the combined technology creates a detailed temperature pattern as a thermogram, this is shown on a 3.2" colour display.

The thermogram displays an accurate temperature measurement using the center cursor (primary thermal point reading) as well as displaying secondary low and high thermal points within the thermogram.

The powerful camera measures temperatures from  $-20^{\circ}\text{C}$  to  $450^{\circ}\text{C}$ . With the squeeze of the trigger, images can be saved and reviewed on-camera and can also be downloaded to a device to be reviewed later.





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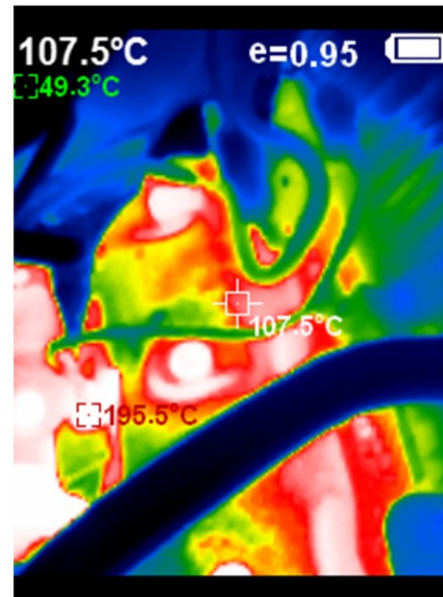
## CAMERA OVERLAY

The Launch IR camera has actually two cameras built in. One camera is the actual IR camera, but placed just above it is a standard colour camera.

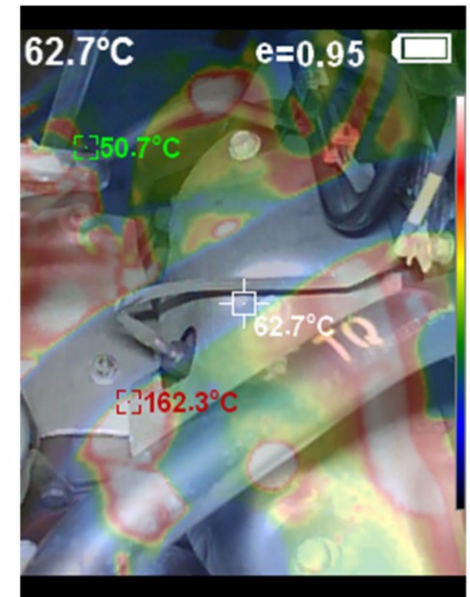
The camera has as feature that both camera's pictures can be mixed (in 4 steps adjustable). The hottest and coolest spots will still be displayed even when you are in full normal spectrum camera mode.

## EMISSIVITY

Infrared temperature cameras rely on the reflection of infrared energy (called emissivity), which is affected by the colour and smoothness of the material measured. The emissivity of the Launch TI201 can be adjusted for all types of surfaces and colours. The colour palette indicating which components are what temperature is self adjusting.



PURE IR

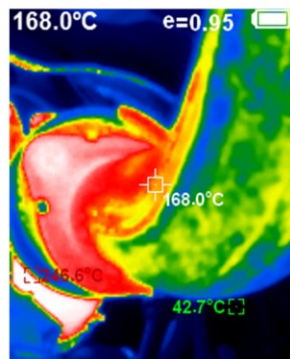
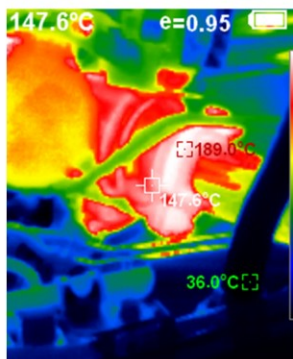
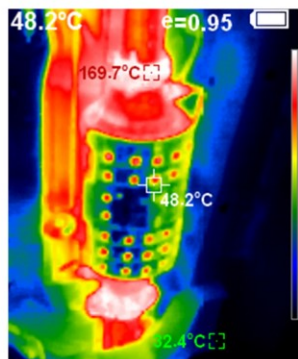
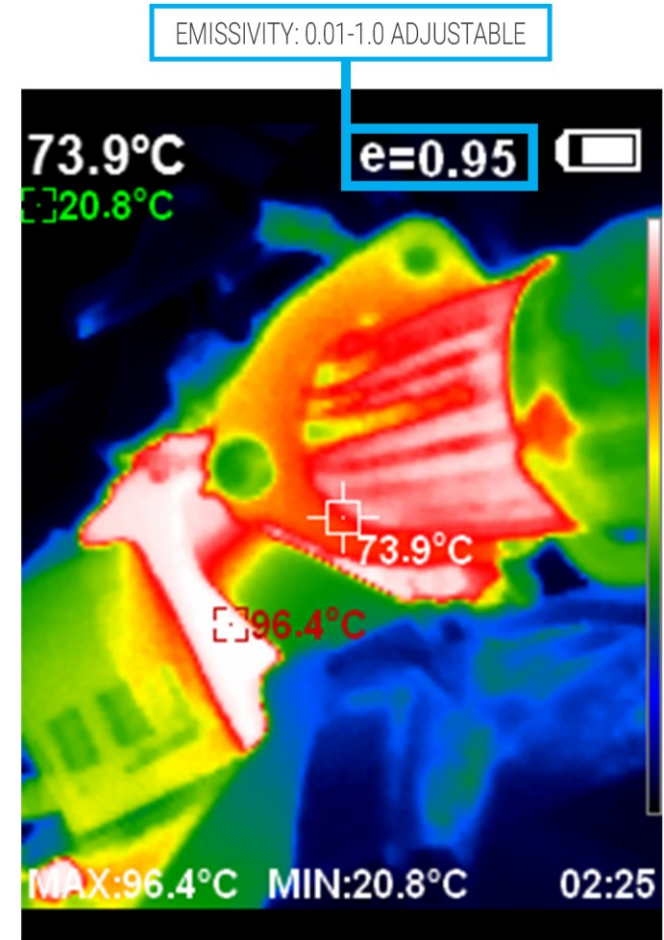


MIXED VIEW

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## APPLICATIONS FOR AUTOMOTIVE INCLUDE:

- Air conditioning - hoses/lines
- Fuel injection nozzles
- Hydraulic systems
- Evaporators or condensers
- Wheel bearings
- Turbochargers
- Glow plug
- Differentials
- Coolant system
- Catalytic converters and exhaust
- Battery systems (also on electric vehicles).
- Fuses and wiring
- Efficiencies on heating/cooling systems and EV heat pumps
- Brake rotors (temperature and wear patterns)
- Tyres - wear/contact (Quantify thermal impacts on tire wear)
- SCR - selective catalytic reduction
- Misfire detection
- DPF diagnostics





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## TECHNICAL SPECIFICATIONS:

- Temperature range: -20 ° C to 450 ° C ( $\pm 2$  ° C)
- Emissivity: 0.01-1.0 Adjustable
- Screen resolution: 320X240
- Screen size: 3.2 "
- Infrared image resolution: 220x160
- Camera resolution: 0.3 megapixels
- Sensitivity: 0.07 °
- Recording format: JPG
- Memory: 20,000 images (3G - Internal Memory)
- Battery: 2000mAH
- USB: Micro USB2.0
- Five modulated imaging modes
- Shortests focal length: 0.5m
- Colour palette: Iron red / rainbow / rainbow high contrast / grayscale (white light) / grayscale (blacklight)

