



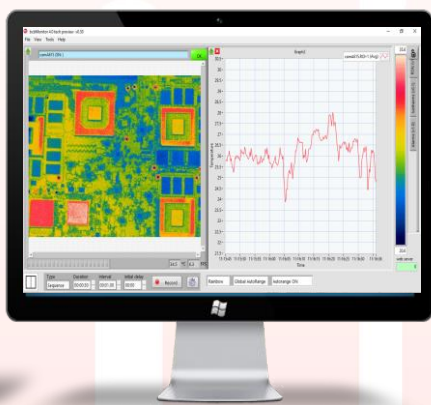
# bcB Monitor 4.0<sup>®</sup>

## *Electronic Sector*

The use of thermography in the electronics industry has been well known for many years to diagnostic departments and recently its use is increasing for failure analysis, design and manufacturing processes.

Useful for troubleshooting and anomalies in active and passive elements ranging from separate components such as capacitors or resistors to power components such as transformers and transistors. With thermography at your disposal, you can detect thousands of measurement points in each thermal image and obtain reliable data in seconds

FLIR infrared cameras together with the portfolio of tools that integrates bcB Monitor 4.0<sup>®</sup> allow you to quickly identify faults and areas for improvement according to the established procedure.

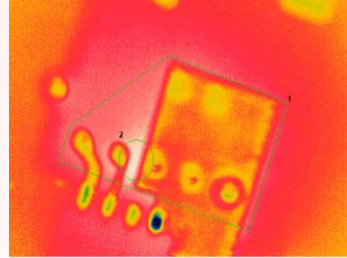
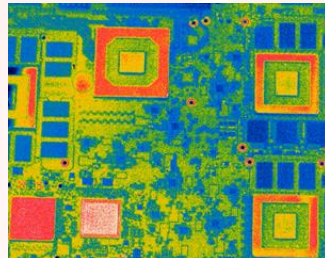
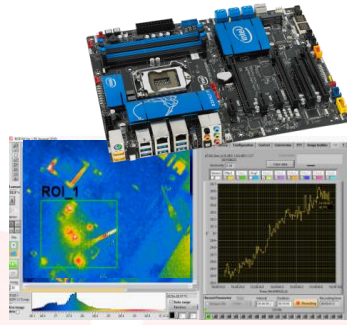
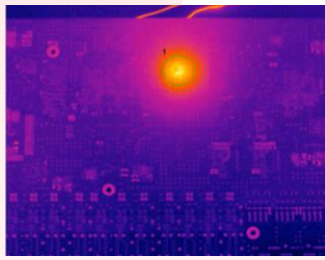


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# Electronics

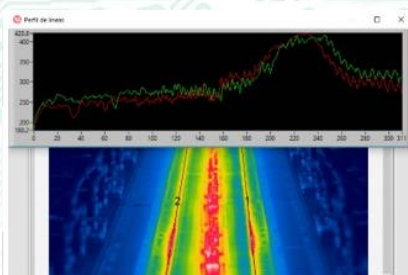
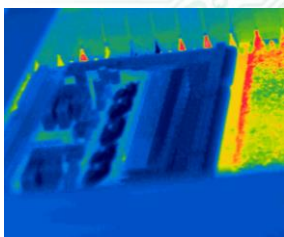
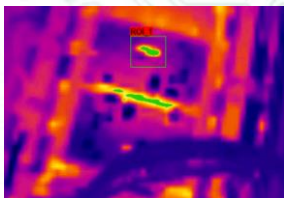
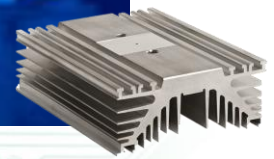
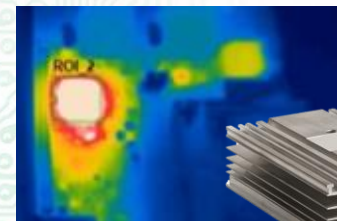
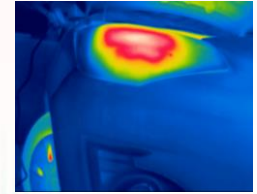
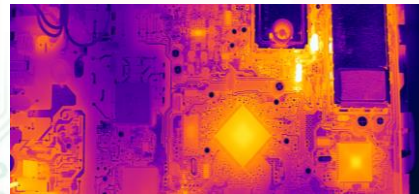


## Diagnostic and Failure Analysis

- Integration to test benches.
- Simultaneous comparison with master circuit boards.
- Communication to sources, curve tracers and oscilloscopes.
- Macro optics for microcomponent evaluation.
- Synchronization and partial tests activating I<sup>2</sup>C and CAN commands.

## Design and R&D

- Mechanical design (thermal dissipation).
- Ground layout.
- Pulse Width Modulation (PWM).
- Layout design in PCBs.
- LEDs: lifetime estimation.
- Frequency study with FFT.



## Manufacturing processes

- Soldering (wave, infrared, contact).
- Assembly of BGAs.
- Drying.
- Coating.
- Convection ovens.
- Application of resins.



**bcb**

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