Thermal Evaluation for Micro Components

Challenge

- Thermal evaluation of micro components on mount board are too small for thermocouple.
- It is required to study heat dispassion of mounting board.

Avio Solution

High resolution IR microscopic lens enables to display temperature distribution, as well as thermal evaluation of micro components.

★ With high resolution microscopic lens (5μm,15μm), temperature distribution display of micro components, which are not possible to measure by thermocouple, helps to make thermal evaluation.
★ Instant behavior of micro components can be captured by high-speed sampling (Max 1KHz)
★ It is expected to be used for more for thermal evaluation of IoT device.

Several hundreds μm class parts can evaluated thermally.

5 μm microscopic lens
(Displayed area: 3.2mm x 2.5mm)

15 μm microscopic lens
(Displayed area: 9.6mm x 7.6mm)
Optimum proposal for customer’s component size from Avio product line up

Recommended model for measurement of micro components

For µm class

H9000

[Main Features]
- 15µm long focus microscopic lens is available (*Photo on left)
- 5µm microscopic lens for micro components.
- Ultra-high speed recording (Max 1KHz) ※When the windowing is used.
- Pre-trigger recording function
- Automatic recording by external trigger signal

For mm class

R500EX Series

[Main Features]
- VGA(640×480) thermography
- 21µm, 52µm close-up lens are available.
- Automatic recording by external trigger signal.
- Remote control is available by remote controller or by PC.

For entire board

R300SR Series

[Main Features]
- QVGA(320×240) thermography
- 72µm close up lens is available.
- High speed recording (Max 60Hz) by connecting with PC.
- Automatic recording by external trigger signal.
- Remote control is available by remote controller or by PC.

Avio offers most suitable model for all of your measurement needs.

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WARNINGS & CAUTIONS
Before using this product, please carefully read the provided Operation Manual "WARNINGS" & "CAUTIONS" section to ensure proper operation.
Please do not place the product in high temperature, high humidity or high inert gas environments.

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