

SanjAnalyzer PLUS – Image Processing

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SanjAnalyzer PLUS is the companion application used to open and process saved calibration, transient, and steady-state image files. Its main view includes a File Window, a Working Image pane, a Reference Image pane, and an Image Calibration Window. [diagram/image in source — not reproduced here]

1. **Open Calibration Image**

1. Open the file location where all test images are saved.
2. Open the Calibration Image file.
3. Check **Correct XY** to correct for thermal expansion.

2. **Save Calibration Image**

1. Click **Save Images/Data**.
2. Change Image Save Format to TTI.
3. Click **Save Image (Current VIEW)** to capture the image.
4. If TTI is already selected, click **Quicksave** instead.

3. **Open Transient Image**

1. Click **Open File**.
2. Select **Refresh** to update the file list with the corrected Calibration Image.
3. Open the Transient Image file (double-click).
4. Select **Point by Point** — the Load Cth Map dialog will pop up.
5. Select the corrected Calibration Image file from the browse dialog and click **LOAD**.

4. **Measuring ΔT**

1. Using the rectangle tool, drag the ROI box across the length of the specimen to measure temperatures in that range. You can draw up to 5 ROI boxes to measure and compare temperatures at different locations on the specimen.
2. Select **Thermal Cross-Section**.
3. Click **Rectangular Profile** to see the rectangular profile of the temperatures within the ROI box.
 - Note on the ROI boxes shown in the source example image: a green ROI box measures ΔT along the length of the specimen line; a yellow ROI box measures

peak temperature.

5. **Measuring ΔT - Alignment Accuracy**

1. If an accurate ΔT is desired on smaller features, increase the Alignment % used during the calibration process. This increases the time required for the measurement but provides better results. [diagram/image in source — not reproduced here — shows a more accurate result obtained with a higher Alignment %]
2. Be aware that a less accurate measurement can result from a misaligned or moved device: the source example shows red lines appearing as a result of the device not being properly aligned and/or movement of the device. [diagram/image in source — not reproduced here]

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