akrometrix

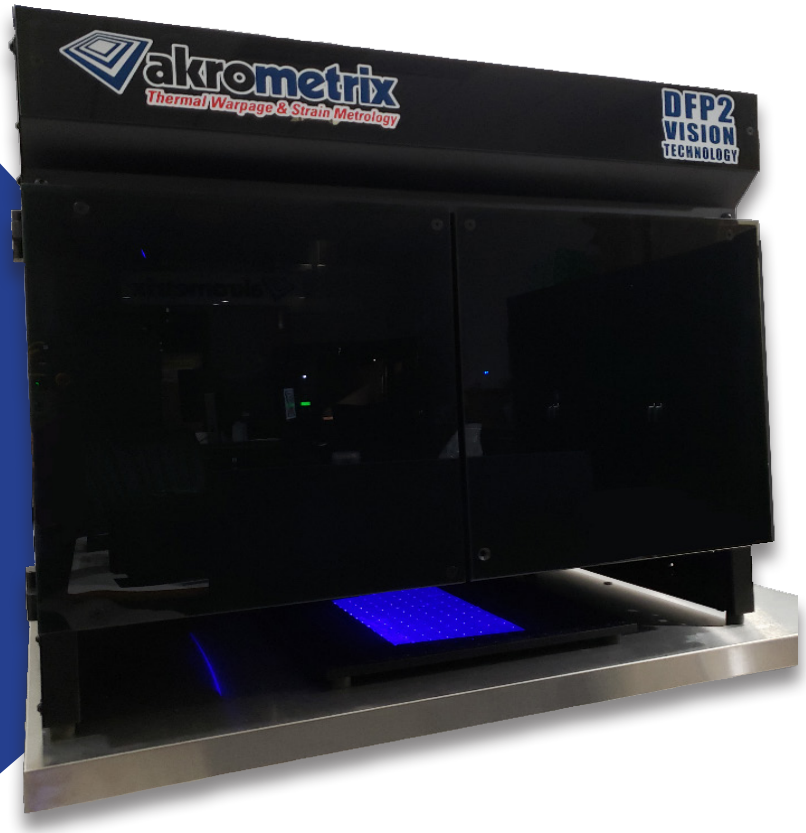
Thermal Warpage & Strain Metrology

TTDFP2

Warpage System

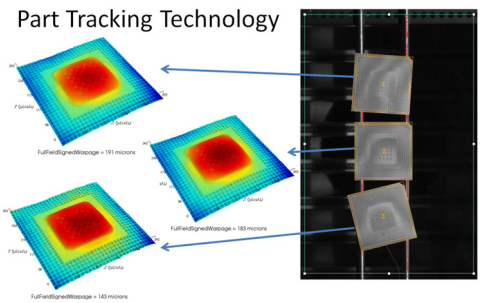
Table Top Digital Fringe Projection 2

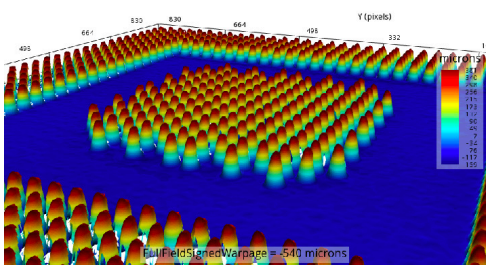
- **Effective Solution for measuring** Components/PCBs across discontinuous surfaces
- **Accommodates substrates** up to 450mm x 450mm with data acquisition times within 1 second
- **Optional Vibrating Isolating table**
- **Vision Technology:** Akrometrix Digital Fringe Projection 2
- **Runs on Akrometrix Studio** Software

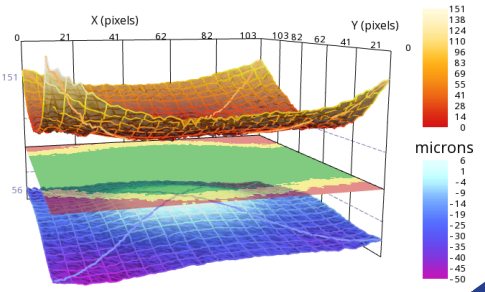


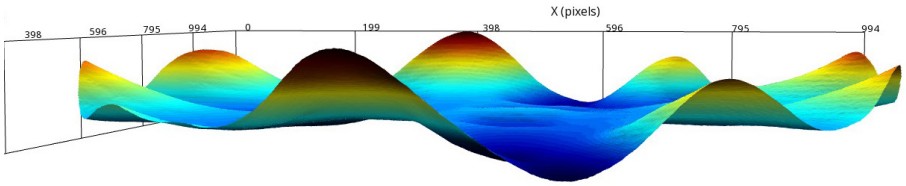
ON VIRTUALLY ANY SUBSTRATE

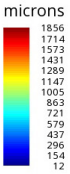
- PCBs
- Wafers
- Stacked Die
- Sockets
- Individual Die
- Populated Boards
- Components
- SMT Connectors











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TTDFP2 Technical Specifications

Measurement Technology	Digital Fringe Projection
Maximum Field of View (mm)	192x240
Minimum Field of view (mm)	36x45
Maximum Sample Size (mm)	450x450
Minimum Sample Size (mm)	0.5x0.5
Maximum Measured Surface Coplanarity	50000 microns

Resolution, Z-axis (vertical displacement)	2.5 microns
Accuracy, Z-axis (vertical displacement)	2.5 microns/ 3%
Resolution, Z-axis at max FOV (vertical displacement)	8 microns

Maximum Measurement Points per Acquisition	5,304,320
Maximum Measurement Density (points per mm^2)	3274
Minimum Measurement Density (points per mm^2)	115

Automated Data Collection?	yes
Batch Data Analysis?	yes

Software	Akrometrix Studio 8.6.1 or Later
Data Export Formats	.dat, .txt, .png

Sample Load/ Unload Time	10 seconds, Manuel Load and Positioning
Data Acquisition (Measurement) Time, approx.	1 second
Data Analysis Time per Acquisition, approx.	5 seconds

Approximate Depth, Width, Height (mm)	700 x 1020 x 955
Approximate Weight (kg)	85kg
Electrical requirements	110VAC, 10A or 230VAC, 10A, 50/60Hz
Other Utilities	N/A

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