



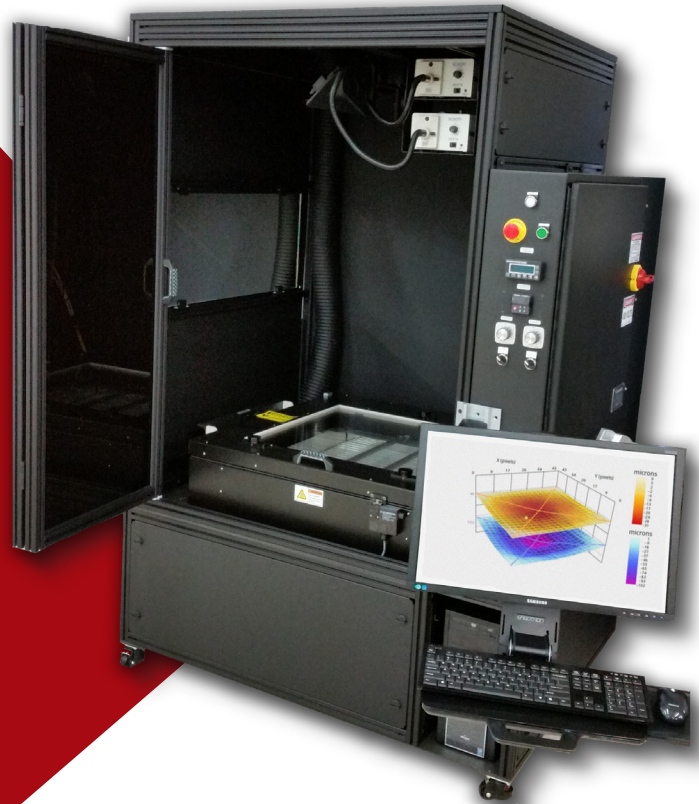
akrometrix

Thermal Warpage & Strain Metrology

PS600S Thermal Warpage System

For Fast Thermal Surface Topography

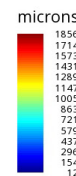
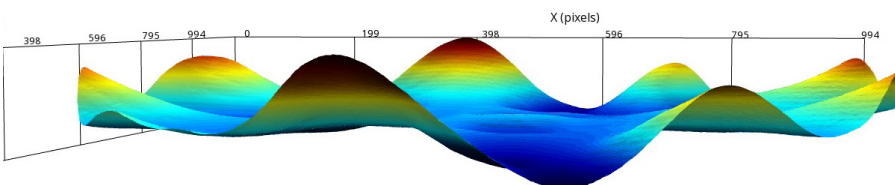
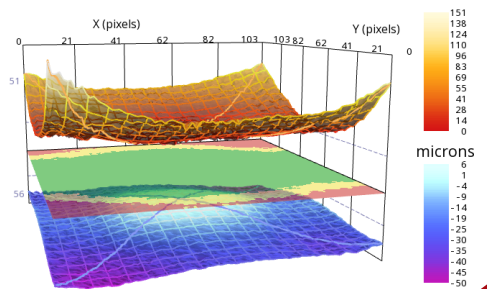
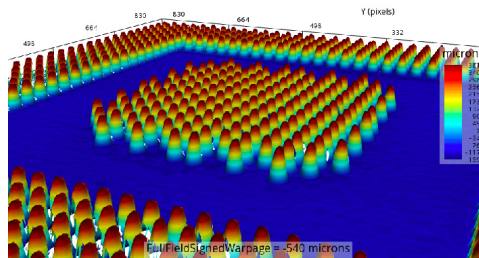
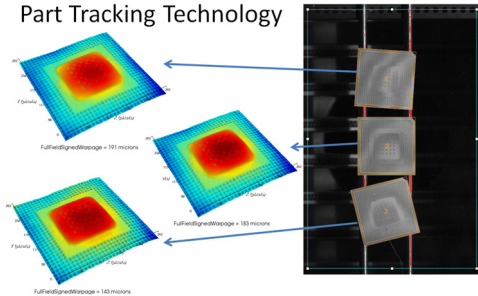
- Accommodates substrates up to 600mm x 600mm
- Field of View Measurement in 2 seconds
- With z resolution down to 0.85 micron
- Runs on the Akrometrix Studio Software Suite



ON VIRTUALLY ANY SUBSTRATE

- PCBs
- Wafers
- Stacked Die
- Individual Die
- Populated Boards
- Components
- Fan out Wafers

Part Tracking Technology



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PS600S Technical Specifications

Vision Measurement Technology	Shadow Moiré
Maximum Field of View (FOV) (mm)	600x600
Minimum Field of View (FOV) (mm)	348x260
Maximum Sample Size (mm)	600x600
Minimum Sample Size (mm)	10x10
Maximum Measured Surface Coplanarity	4000 microns

Resolution, Z-axis (vertical displacement)	3 microns
Accuracy, Z-axis (vertical displacement)	2.5 microns / 3%

Maximum Measurement Points per Acquisition	1,447,680
Maximum Measurement Density (points per mm ²)	16
Minimum Measurement Density (points per mm ²)	4

Thermal Processing Technology	Radiant IR
Maximum Temperature	300°C
Maximum Heating Rate °C/sec (from 50°C to 250°C)*	2
Maximum Cooling Rate °C/sec (from 250°C to 125°C)*	1

Maximum Thermal Profiles	Unlimited
Maximum Thermal Cycles Time	Unlimited
Maximum Acquisitions per Cycle	Unlimited
Automated Data Collection	yes
Batch Data Analysis	yes

Software	Akrometrix Studio
Data Export Formats	.dat, .txt, .png

Sample Set-up time, typical	2 minutes
Sample preparation method, typical	none
Data Acquisition (Measurement) Time, approximate	2 seconds
Data Analysis Time per Acquisition, approximate	2 seconds

Approximate Depth, Width, Height (mm)	1214x1438x2154
Approximate Weight (kg)	635
Electrical Requirements	480VAC, 3 phase, 50/60 Hz, 20A Rating, 21A Full Load
Air Requirements	N/A
Other Utilities	exhaust 2800 lpm

*Thermal Ramp rates based on 27x27x1.4mm substrates sample



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