



PRESS RELEASE

10 April 2017

MSA-100-3D from Polytec

The MSA-100-3D Micro System Analyzer is designed for 3D vibration analysis with high lateral resolution. It is especially suited for microsystems, precision mechanics parts and for studies on the dynamics of HGAs and secondary actuators in the data storage industry.

The instrument is based on a novel 3D vibrometer setup enabling pm-resolution for both out-of-plane and in-plane motion. It has a frequency bandwidth of 25 MHz. An integrated XY-traverse stage with full software support for high-precision sample movement enables scanned measurements for obtaining 3D deflection shapes.

The MSA-100-3D Micro System Analyzer solves many challenging development tasks. Sub-picometer amplitude resolution is achieved for both Out-Of-Plane (OOP) and In-Plane (IP) motion with a small laser spot resulting in high spatial resolution data. This combined with up to 25 MHz bandwidth real time data will open a realm of entirely new applications for the characterization of MEMS and other micro mechanical structures.

Key features include:

- Real-time measurement with high bandwidth up to 25 MHz,
- Sub-pm displacement resolution for both Out-of-Plane and In-Plane motion,
- Single-Point and Full-Field scanning measurements,
- Small spot size of <math><4\ \mu\text{m}</math> for high lateral resolution,
- Large stand-off distance of 38 mm,
- Probe station compatible.

For more information, please Warsash Scientific on +61 2 9319 0122 or sales@warsash.com.au.

