

# Press Release

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## **Polytec Wins Prestigious Innovation Award**

Technical jury pays tribute to the latest development from the Waldbronn instrumentation specialists

On the 14th of May, the AMA Fachverband für Sensorik (AMA Instrumentation Trade Association) named the MSA-100-3D Micro System Analyzer from Polytec GmbH as the winner of the AMA 2013 Innovation Award. Polytec is sharing the € 10,000 prize with Xarion GmbH from Austria.

The two innovations impressed the jury both in respect of the depth of development and their relevance to the market. Responsible at Polytec for the development of the 3D scanning laser vibrometer microscope were Dr. Marcus Winter, Robert Kowarsch, Wanja Ochs, Alexander Collet, Moritz Giesen, Lars Heller and Dr. Christian Rembe. The microscope enables the measurement of the three-dimensional vibration parameters of microscopic objects in real time. The MSA-100-3D principle makes use of the directive Doppler effect in the scattered light of a single laser, which is detected from 3 different directions. For the first time the full benefit of laser Doppler vibrometry like high resolution and measurement speed can be used for micro systems. Compared to the formally used video microscopy for in-plane evaluations the amplitude resolution is increased by a factor of 100,000 and the measurement time reduced by a factor of 1,000. Thus MSA-100-3D opens up new possibilities in R&Q and QC of micro systems .

"This year sixty teams with first-class developments applied for the AMA innovation award. The 3D scanning laser vibrometer microscope with a single measurement beam and the optical microphone impressed the jury and stood out from the other applications thanks to its scientifically outstanding solutions and its high practicality," stated Jury Chairman Professor Andreas Schütze from the University of Saarland.

Dr. Christian Rembe, manager of the Optics Development Department at Polytec, is very pleased with the tribute: "We invest a great deal in R&D, so I'm all the more pleased that our efforts have been rewarded."

The AMA Innovation Award is among the most renowned awards in the field of sensor and measurement technology. The most important assessment criteria for the jury, which consists of representatives from

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universities, research institutes and companies, are the level of innovation and the identifiable practical applications.



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