



# NA

## *Product information*

Vibrometer system for microstructures and MEMS

# Nano Vibration Analyzer

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The Nano Vibration Analyzer NA is a combination of a fiber-coupled vibrometer of the LSV 120 NG series with an engineering microscope. The system is ideally suited for measuring the dynamic behavior and static deflection of microstructures, MEMS and cantilevers. Depending on the objective used, a measurement spot size of less than 2  $\mu\text{m}$  can be achieved.

The measured object can be positioned and scanned over a wide range using an X-Y stage and can be observed through a camera. The microscope objective is interchangeable and defines both the visible range and the laser spot diameter. The achievable displacement resolution of the laser interferometric vibrometer is in the picometer range, and vibration frequencies up to 5 MHz can be analyzed.

A specially developed software is offered for the acquisition and display of the measurement data. In addition to frequency analysis of the vibration and triggered measurement recording, this software enables control of the X-Y table and an external frequency generator. More extensive measurement sequences can be automated via scripts.



0–5 MHz

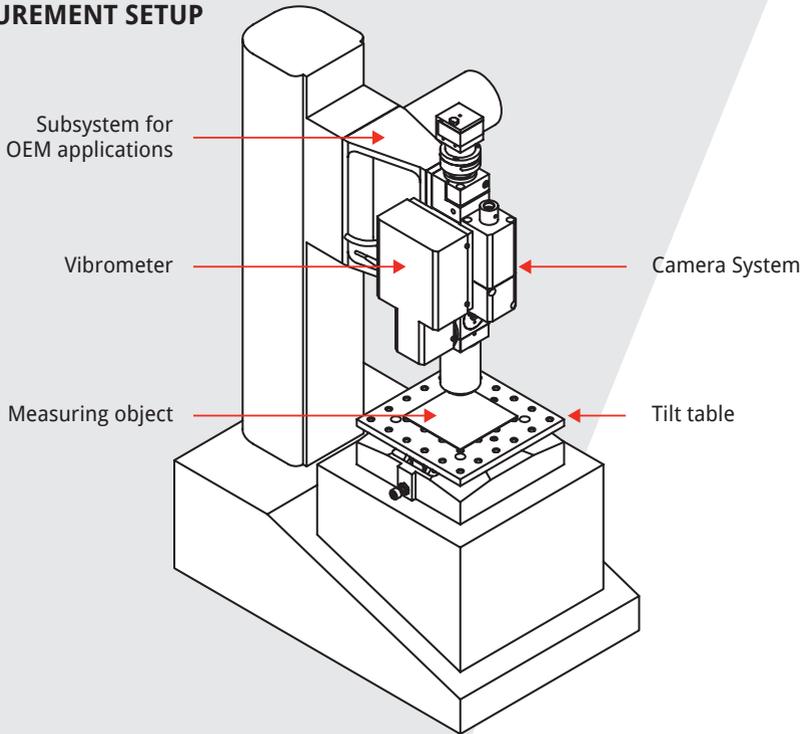


max. 3 m/s



5 pm

## MEASUREMENT SETUP



### Areas of Application:

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- vibration and displacement measurement on microcomponents, MEMS
- non-contact vibration measurement on surfaces of any roughness
- determination of vibration spectra
- determination of vibration modes
- determination of natural frequencies on microobjects and macroscopic components
- multi-coordinate measurements with multiple systems

### Ideal für

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- quality control
- development
- science / research
- OEM applications

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MADE IN GERMANY

**For customer-specific versions, OEM applications or integration in special measuring stations, please contact us.**

**We will be happy to personally assist you in finding solution to your measuring tasks.**

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