



## LSV-NG

*Product information*

High-precision, non-contact vibration and length measurement on surfaces of any roughness

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# Laser interferometric vibrometer

## LSV-NG

Many fields of application in industry and research require high-precision vibration measurements on various surfaces. Fast setup and uncomplicated adjustment as well as a robust design are particularly important.

Our laser-interferometric vibrometers measure the temporal position change of an object very precisely and contactless. The surface of the moving object may have any roughness. Mechanical oscillations with amplitudes up to  $\pm 20 \text{ mm}$  can be measured in the range of 0 to 5 MHz with a resolution in the subnanometer range.

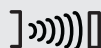
The measuring system LSV 120 NG works with a fixed, selectable focal length. By means of a lens attachment, the model LSV 2500 NG has a continuously adjustable variable focal length.

The design of the vibrometer is both compact and robust, its housing is splash-proof and the fiber cables can be sheathed. Various modules are available for data evaluation and output. This allows the measuring system to be adapted to special tasks and customer requirements.

With the aid of a tripod the sensor head can be aligned very quickly and comfortably. A reflector is not required.



0 - 5 m MHz

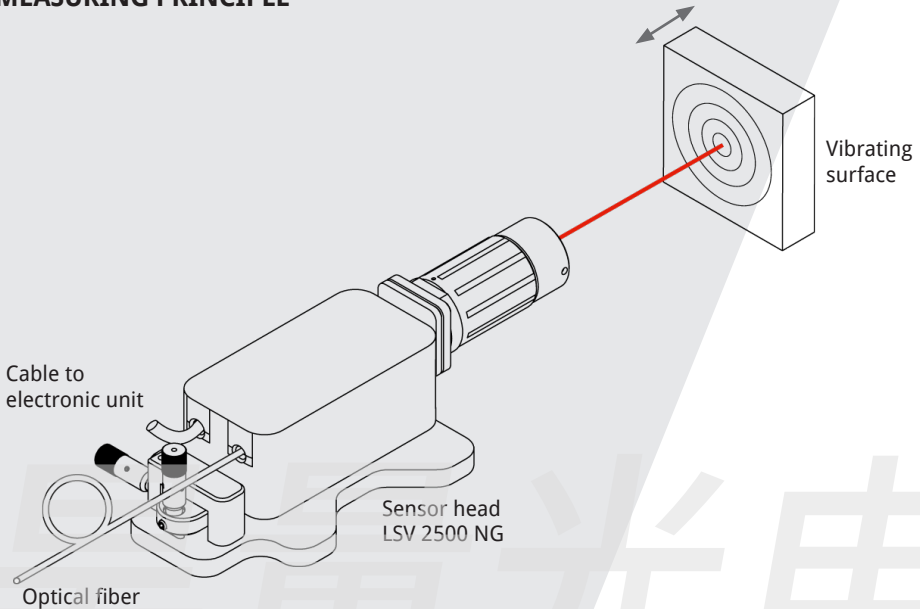


max. 3 m/s



5  $\mu\text{m}$

## MEASURING PRINCIPLE



Fast and reliable  
vibration measurement  
on various surfaces

### Further possible applications:

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- Determination of vibration spectra
- Determination of vibration modes by point-by-point scanning of the surface (hardware extension required)
- Determination of resonant frequencies on micro-objects and macroscopic components
- Multi-coordinate measurements with multiple systems
- High-precision length measurements

### Ideal for

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- Quality assurance
- Development
- Science and research
- OEM applications