

# Polytec Press Release

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## **Designed for Sophisticated Measurements - Polytec introduces new Fiber-optic Interferometers**

Polytec Laser Doppler Vibrometers (LDVs) are precision tools for non-contact vibration measurement. Designed to be quick, easy to operate and free from crosstalk or feedback problems, these instruments determine vibrational velocity and displacement from the Doppler shift of back-scattered laser light.

With the OFV-551/552 Interferometers Polytec now introduces a new series of Fiber-optic Vibrometers.

Fiber-optic LDV systems simplify the placement of single-point and differential laser probes by delivering the laser light through flexible fiber-optic cables terminated by mini-lenses. The flexibility and small size of fiber delivery enables vibration measurement where physical access is difficult, close stand-off-distances are required, and when relative motions between two points must be measured directly.

Fiber-optic vibrometers are composed of the controller and an OFV-551 or OFV-552 Fiber Interferometer. The OFV-551 sensor head utilizes flexible fiber-optics terminated with a focusing lens to deliver the laser probe to the measurement point and to collect the reflected light as an input to the interferometer. The specially designed, dual-fiber OFV-552 sensor head permits the direct measurement of differential movements between two monitored points.

Polytec's fiber-optic vibrometers are widely used in the electronics industry for measurements on circuit boards, fine bonding wires, mobile phones and hard disc drive components. Other applications are found in micro structures, medicine, zoology, and automotive manufacturing.

More information can be found at: <http://www.polytec.com>