



Press Release

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Enclosure:

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Learn About Vibrations – Polytec’s Vibrometer Education Kit offers fascinating experiments that feature non-contact vibration measurement

Modernize your student lab with up-to-date measurement equipment and exciting, informative experiments!

Polytec’s Laser-Doppler-Vibrometers are the “gold standard” for high-precision and flexible non-contact vibration measurements. This innovative and well-proven measurement technology is now available as an educational package for training university students studying science and engineering.

Polytec has tailored the kit to the specific needs of universities and colleges. The PDV-100 Vibrometer Education Kit includes two fascinating educational experiments built to demonstrate the unique properties of the laser measurement system. The first experiment introduces very basic principles with an exciting characterization of a loudspeaker cone including the visualization of the deflection shapes from the speaker membrane when excited at specific frequencies. The second experiment is more complex and examines the fascinating and detailed motion of the spinning Euler-Disk. This movement is well known from the wobbling and spinning motion exhibited by a coin spun about its axis on the table. The dynamic frequency shift during the movement reveals an astonishingly intricate behavior and can only be measured meaningfully by non-contact measuring methods.

The Vibrometer Education Kit includes the PDV-100 Sensor, the VibSoft-20 data acquisition system and the data analysis software. A simple computer is the only item that must be added to start learning about the exciting field of vibration measurement. The PDV-100 sensor measures vibration up to 22 kHz and works on almost any surface. The data acquisition system works perfectly with any computer that has a USB port. The software package includes extensive data analysis in both the time and frequency domains. The package comes with three additional free software licenses for data analysis that facilitate experimental work in multiple groups and thereby support educational work.

Priced for the University market, this educational package is ready to familiarize your students with the latest in optical vibration measurement.

Additional information: www.polytec.com/vibrometer

Publication free of charge

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