



22941 Mill Creek Drive, Laguna Hills, CA 92653

www.omscorporation.com, Phone: 949-916-4111

## OMS LASERPOINT LP01



### LP01 Specifications

<b>Velocity Range</b>	5 micrometers/sec – 800 mm/sec
<b>Low Range</b>	5 micrometers/sec – 100 mm/sec
<b>High Range</b>	100 micrometers/sec – 800 mm/sec
<b>Typical Calibration Settings</b>	LOW: 1 Volt = 5 mm/s HIGH: 1 Volt = 100mm/sec
<b>Frequency Range</b>	0.1 Hz to 20 kHz*
<b>Noise Floor</b>	LOW: < 5 micrometers/sec** HIGH: < 100 micrometers/sec
<b>Working Distance</b>	0 to 5 meters
<b>Selectable Low Pass Filters</b>	1, 2, 5, 10, 20 kHz
<b>Power Requirements</b>	110-220 Volts at 50-60 Hz
<b>Laser (Measurement)</b>	780 nm, < 20 mW, Class 3B
<b>Laser (Pointing)</b>	650 nm, < 1 mW, Class 2
<b>Laser Head Dimensions</b>	9.4" x 4.5" x 3.0" (24.0 x 11.4 x 7.6 cm)
<b>Laser Head Weight</b>	3.1 lbs (1.4 kg)
<b>Control Box Dimensions</b>	11.8" x 8.7" x 2.4" (30 x 22 x 6 cm)
<b>Control Box Weight</b>	8.6 lbs (3.9 kg)
<b>Temperature Range</b>	3 to 45° C

\* Frequency Ranges up to 80 kHz are available. Please contact OMS for more information.

\*\*The Noise Floor is defined as the average value of the velocity vs. frequency graph between 0 and 20 kHz for one second of data, on a white target at a distance of 1 meter.

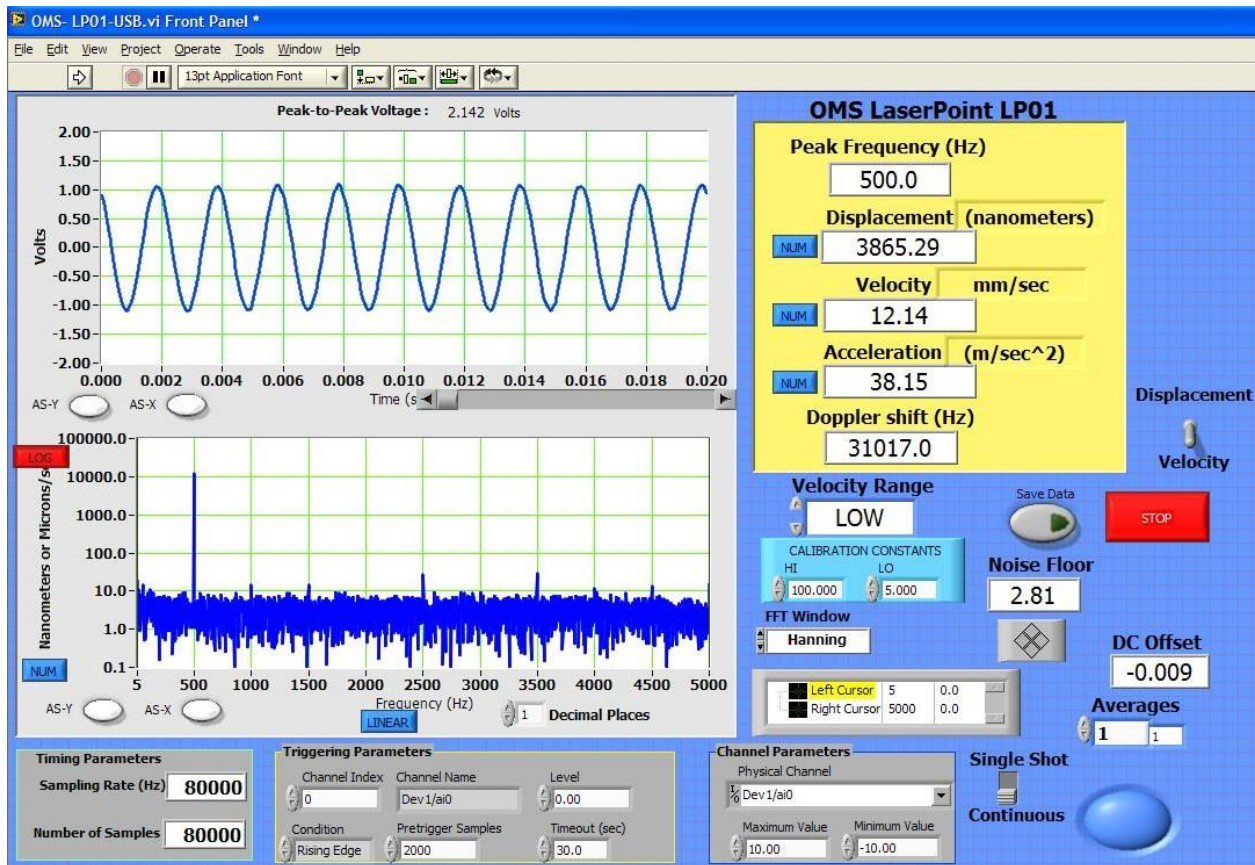


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## DATA ACQUISITION HARDWARE/SOFTWARE

National Instruments Data Acquisition Hardware with Custom OMS Software is available to use with the LaserPoint LP01. The standard configuration is a 100 kS/s, 16-bit, USB data acquisition module with 4 simultaneous sampling channels. A software executable is available to acquire, display, and save the analog voltage output from the LP01, and to convert the voltage input to units of velocity, acceleration, or displacement.



## Hardware/Software Specifications

<b>Sampling Rate</b>	Up to 100 kS/s
<b>Sampling Resolution</b>	16-bit
<b>Number of Channels</b>	4
<b>Software Features</b>	<ul style="list-style-type: none"> <li>Display Time Domain Data and Frequency Spectrum</li> <li>Determine Peak Frequency and Velocity</li> <li>Compute Displacement and Acceleration Values</li> <li>Set Trigger Levels</li> <li>Save and Export Data into a Spreadsheet Compatible Format</li> </ul>