



OUR EQUIPMENT. YOUR SUCCESS.

# TEST LAB PROFESSIONAL™

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Test Lab Professional (TLP™) is specifically designed to support the needs of packaging and product reliability laboratories in the management of drop, shock, impact, and vibration testing of their products, packaging materials and packages. Now with a USB 3.0 interface which enables the user to install and set up the software quickly and easily!

## TEST WITH CONFIDENCE

TLP™ is a Windows10 based data acquisition system designed to complement any drop, shock, and vibration package test system. TLP™ provides the ability to accurately capture, analyze, and provide quantitative results of your product and package testing. TLP™ is critical in assessing your packaged systems performance in the distribution environment.

**TEST**  
with  
**CONFIDENCE**



**USB**  
connect

## TLP™ FEATURES

- Data acquisition and analysis system
- Provides 4-Channel simultaneous data capture abilities
- Complete with hardware, accelerometer and cables
- (1) Single user TLP™ software license
- (1) USB dynamic signal acquisition module (4 channels) with USB cable
- (2) 30 feet (9 meter) accelerometer cables
- (1) 1000G (DS) triaxial or (1) 50G (V) IEPE accelerometer

Available with A  
**Triaxial Accelerometer!**  
(Drop/Shock Only)



DATA ACQUISITION



OUR EQUIPMENT. YOUR SUCCESS.  
A Spectral Dynamics Company



L.A.B Equipment, Inc., 1549 Ardmore Avenue, Itasca, IL 60143, USA  
Phone: 630-595-4288 Fax: 630-595-5196 www.labequipment.com

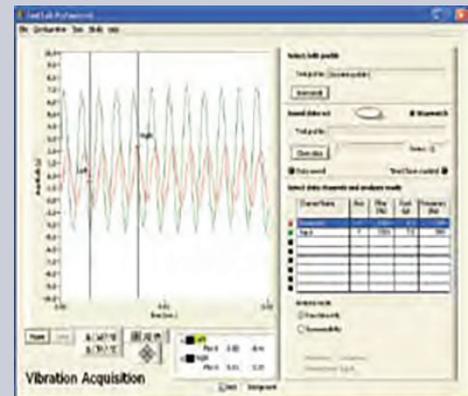
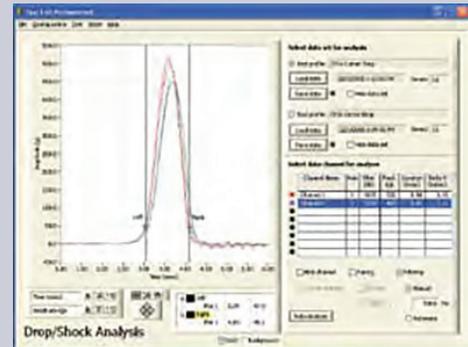
## AVAILABLE CONFIGURATIONS

Drop & Shock (DS) • Vibration (V) • Drop, Shock, & Vibration (DSV)

TLP™ is a four channel PC-based data acquisition system designed to compliment our entire range of product reliability testing equipment. In addition to capture and analysis capabilities for shock, drop, and impact test data, TLP™ also possesses an intuitive vibration acquisition and analysis capability for systems producing vibration within a frequency range of 1 to 500 Hz.

### TLP™ Features

- Peak G, Duration, and Change in Velocity analysis
- (1) Triaxial, 1000G IEPE accelerometer (D/S)
- (1) Single-axis, 50G IEPE accelerometer (V)
- Zoom and Pan
- Auto Analyze for standard views
- Delta-V and Pulse duration auto calculate
- English or SI unit selection
- Supports test protocol sequences
- Manual or automatic scaling
- All vibration waveforms: Peak G and Frequency analysis
- Discrete vibration waveforms: Peak G Transmissibility analysis
- Logarithmic or linear scaling
- View raw data and analysis simultaneously
- Save data samples manually or with one-shot stop watch timer
- Random vibration waveforms: Power Spectral Density (PSD), instantaneous or average and PSD Transmissibility analysis



### TLP™ SPECIFICATIONS

- Measure and capture acceleration (g), pulse duration (ms) and velocity change (delta-V)
- Sufficient to acquire 0.1 msec half-sine pulses with 6% theoretical error on 4 channels simultaneously
- Input ranges:  $\pm 10V$ ,  $\pm 5V$  (default),  $\pm 0.5V$ ,  $\pm 0.05V$
- Triggering: manual or automatic (per axis or triaxial)
- Data window: manual or automatic duration
- Low pass data filtering: none, automatic or user-specified cutoff frequencies
- Auto-analyze for standard views
- Auto-calculate change in velocity and pulse duration
- Supports Test Protocol sequences
- Increased sampling rate enhances high frequency vibration resolution
- Increase filtering levels from 0-4999 Hz to 0-99,999 Hz (1 Channel discrete waveform)

Due to our continuous commitment to product development, the above specifications and features may be modified without notice.