



# Firearms Acoustic Analysis

Quantitative Measurements of Sound Pressure Levels Generated by Firearms with & Without Suppression Devices

## Highlights

- Type 1 Accuracy for Courtroom Traceability
- Large backlit display
- 30 Hours runtime on Energizer® e2® Lithium Batteries
- Simple setup specific to gunfire testing applications
- Large internal memory capable of storing multiple tests
- USB connection to PC for data archiving, reporting and storage
- Utility software provides custom report generation
- 24-hour factory support at no cost
- Web-based training courses



Firearms generate high dB Levels (100 – 165 dB).



Model LXT1-QPR

Many firearm examiners are tasked with determining whether installation of a suppressor on a firearm results in a “perceptible” reduction of the sound pressure level of a gun. The Larson Davis SoundTrack LxT® provides this functionality utilizing an easy-to-use handheld platform.

With the included ¼” prepolarized pressure microphone, Model LXT1-QPR, is capable of reading the very high levels typically associated with gunfire testing. These readings can quickly be organized and stored on internal memory, and exported to a PC for archiving and reporting. Reports generated include selectable noise parameters (peak, background level, max SPL, etc.) as well as calibration history of the instrument, important for courtroom presentations.

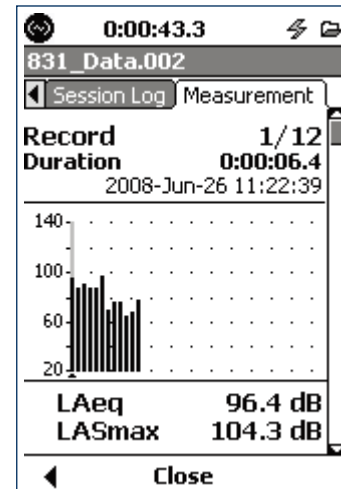
All Larson Davis sound level meters are supplied with NIST-traceable calibration certificates. Yearly calibration services are offered. The Larson Davis Model LXT1-QPR is an ideal tool for gathering, analyzing and presenting detailed firearm noise data quickly, easily and concisely.



## Reporting (with LXT-ENV option enabled)

Suppression	Shot #	Date	Time	Duration	LZpeak (max)	L90.00
-	1	2008/06/26	11:22:39	00:00:06.4	139.4	42.0
-	2	2008/06/26	11:23:04	00:00:03.3	128.5	48.3
-	3	2008/06/26	11:23:16	00:00:04.0	129.3	45.4
-	4	2008/06/26	11:23:30	00:00:02.9	129.3	48.9
-	5	2008/06/26	11:29:19	00:00:03.1	128.4	47.8
-	6	2008/06/26	11:29:47	00:00:03.0	137.4	45.4
✓	7	2008/06/26	11:30:49	00:00:03.7	107.7	44.0
✓	8	2008/06/26	11:30:57	00:00:03.2	112.4	45.3
✓	9	2008/06/26	11:31:05	00:00:02.6	112.4	54.5
✓	10	2008/06/26	11:31:12	00:00:04.1	103.3	51.5
✓	11	2008/06/26	11:31:18	00:00:03.9	106.8	46.4
✓	12	2008/06/26	11:31:25	00:00:03.1	112.1	49.1

Typical output in Microsoft Excel®



Screen can be projected on PC for presentations and training.

## Ordering Information

LXT1-QPR	Model LXT with 1/4" prepolarized pressure microphone 1 mV/Pa sensitivity
LXT-ENV	Interval Option – provides ease of documenting multiple shots in one measurement file
LXT-ACC	Accessory Kit including carrying case, computer download cable, utility software and Type 1 microphone calibrator

## About the Larson Davis division of PCB Piezotronics

Larson Davis was founded in 1982 as a manufacturer of precision acoustic test and vibration measurement instrumentation. Joining the PCB Group family of companies in 1999, and becoming a division of PCB Piezotronics in 2005, Larson Davis offers ISO 9001:2000 certified manufacturing in Provo, Utah and sales and marketing in Depew, New York, and has grown into a globally recognized source for quality products and service, with the PCB® guarantee of Total Customer Satisfaction.

## Why Choose a Larson Davis Product?

Larson Davis has decades of experience in designing and building top-quality, affordable instruments that perform to the highest demands of the professionals who use them.

We understand you have many choices when it comes to selecting noise and vibration instrumentation. When it comes to finding the best solution for your particular needs, Larson Davis has what it takes to help you choose exactly the right tool with confidence, backed by the best customer care in the industry. Larson Davis offers a standard 2-year warranty and every product we sell is supported by our pledge of Total Customer Satisfaction: If, for any reason, you are dissatisfied with a Larson Davis product or service, we will repair it, replace it or refund your money in full — up to ONE YEAR after date of purchase! No other company stands behind their products and services like Larson Davis.



3425 Walden Avenue, Depew, NY 14043-2495 USA

Toll Free in USA 888-258-3222

Fax 716-926-8215 E-mail sales@larsondavis.com

Web Site www.larsondavis.com

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Larson Davis Environmental Noise Monitoring and Industrial Hygiene offers a full line of Noise and Vibration measurement instrumentation, including Type 1 sound level meters, personal noise dosimeters, octave band, audiometric calibration systems, microphones and preamplifiers, hearing conservation software, and Human Vibration Exposure Monitor for Hand-Arm/Whole Body Vibration for evaluating human exposures to ISO 2631 and 5349, as well as to help ensure compliance with a number of ANSI and OSHA and other related industrial hygiene standards, as well as for measurement of building acoustics, community and environmental noise monitoring, as well as supporting various automotive, aerospace and industrial applications.

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