

The All-In-One Sound Level Meter For The Noise Professional

Applications

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- Product Noise Evaluation
- Production Line Acoustic Testing
- Site Assessment
- Attended Noise Measuring
- Environmental Noise Monitoring

Highlights

- Class 1 Sound Level Meter
- Random Incidence (RI) or Free Field (FF) microphones
- Complete firmware package
- 30 hours of operations using AA lithium batteries
- Rugged, compact, lightweight

Included Features & Capabilities

- Real-Time Octave Band Analysis (1/1 & 1/3)
- Time History Logging
- Community Noise Metrics
- 2GB Internal Memory
- Measurement History

Options

- Tripod (TRP001)
- Class 1 Calibrator (CAL200)
- Rugged Outdoor Case (EPS042)



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USB and Power

Headphone Jack

 Standard 1/2 inch Free Field or Random Incidence

Microphone

Integrated Preamplifier
Collar to Eliminate
Reflections

SoundExpert LxT Sound Level Meter:

(LxT1-SE-FF or LxT1-SE-RI)

The Larson Davis SoundExpert LxT Sound Level Meter is a full-featured meter designed for general product evaluation and noise monitoring applications. SoundExpert LxT comes with a graphic display and a fixed set of firmware options applicable for these applications. It is available as a general hand-held meter or data acquisition tool and also in a short-term noise monitoring kit. The meter expands upon the Larson Davis tradition of delivering value, innovation and function in a rugged, single-handed package, and is backed by our 2-year factory warranty, 24-hour application support, and accredited factory service/calibration.

Compact, Portable, Complete Measurement System





SoundExpert LxT Noise Monitoring Kit:

(NMS-SE-FF or NMS-SE-RI)

In addition to the SoundExpert LxT meter, this kit includes the EPS042 protection case and D-cell battery pack, the EPS2116 microphone protection shroud, and EXC010 10 ft. cable. Using D-cell alkaline batteries, allows the noise monitor to be smaller and lighter; avoid the expense of shipping heavy lead acid batteries and the hassle of recharging. You can transport it easily to your site, deploy it, measure data, retrieve your system, download the data, and issue your report.

Applications

- Mining Operations
- Construction Site Noise

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- Wind Tubine Noise
- Motorsports
- Entertainment Events
- Industrial Operations
- Unattended Noise Monitoring

Highlights

- Complete noise measuring system
- Weatherpoof, lightweight, compact case (EPS042)
- Up to 300 hours of operations with a D-cell battery pack (BAT015)
- Ideal to deploy, measure, download, then analyze
- Includes SoundExpert LxT

Options

- Tripod (TRP001)
- Class 1 calibrator (CAL200)
- DNA analysis software (SWW-DNA)
- LxT driver for DNA (SWW-DNA-LXT)



Application Solutions:

The SoundExpert LxT was specifically designed to provide a simple, easyto-use meter to provide professional measurements to support your Product Engineering or Basic Noise Monitoring needs. It comes configured with a fixed set of firmware options that will typically meet the needs of the professional engineer or consultant.

Product Engineering Applications

- Vehicle NVH Analysis
- Acoustic Target Setting and Evaluation
- Appliance Noise Testing
- Speaker Evaluation
- Production Line Acoustic Testing

Product Noise Evaluation

The SoundExpert LxT provides the functions, metrics, and accessories needed to help you develop quieter products. This instrument is well suited for acoustic development in the automotive, motorcycle, appliance, turbine, and speaker industries. Available with free field or random incidence microphones and with a detachable preamplifier and microphone that comes with extension cable options from 6 to 200 feet, this device makes noise measurement and recording simple and portable.

Production Line Acoustic Testing

Production line acoustic testing is necessary for qualifying and inspecting a wide range of products and sub-assemblies. The SoundExpert LxT meter provides an affordable method to measure noise for pass/fail assessments and for archiving for future traceability. This data can identify alignment errors, missing components, cracks, defects, and other anomalies. Octave band analysis can be used to get immediate diagnostic feedback as to what has failed on the component that can help root cause the concern and eliminate warranty costs. This data can also be used to predict subjective customer perceptions and to set quality standards that drive product acceptance and differentiation.

Noise Monitoring

- Mining Industry
- Traffic

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- Industrial Assessments
- Wind Turbine

Attended Noise Measuring

The SoundExpert LxT is your professional tool for hand-held or attended noise monitoring projects. It comes loaded with the firmware you need for logging, metrics, and octave band analysis and 2GB internal memory is standard. It's perfect for site assessments, compliance evaluations, and root cause investigations.





Short Term Monitoring Projects

When you need a simple and affordable noise monitoring solution for periods less than two weeks, the SoundExpert LxT, battery powered, monitoring kit is the perfect fit. It's small, lightweight, and easy to transport with a basic D-cell battery pack. Optional tripods and analysis software are available. Deploy it, measure it, retrieve, download your data, and issue the report!

Construction Sites

Public Venues Code Enforcement

SoundExpert[™] LxT



<image>

Software Solutions:

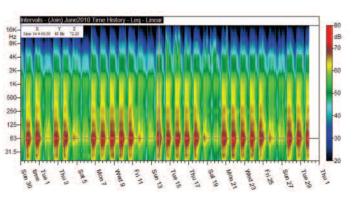
The SoundExpert LxT has numerous on-board capabilities, yet often further processing, visualization or reporting needs exist. For this purpose the SoundExpert LxT can be used as a portable instrument and retrieve the data, work as a data acquisition front-end, or in combination.

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SLM Utility-G3

The SLM Utility-G3 program is included with your SoundExpert LxT and is an easy-to-use utility for managing and providing configuration setup and data download. The Screengrabber feature emulates the SLM screen on your PC, convenient for presenting data stored on the SoundExpert LxT or for teaching classes. Measurement set-ups can be stored on the PC and exchanged with one or more sound level meters. Data can be downloaded into a PC and easily exported to Excel[®] for further analysis.

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Environmental Noise Spectrogram from DNA

Data Navigation and Analysis Software (SWW-DNA)

Data Navigation and Analysis Software (SWW-DNA) is designed to analyze and report environmental noise, factory noise and product noise with an interactive graphical interface. DNA and the SoundExpert LxT can be used in two ways: DNA retrieves files from the SoundExpert LxT or DNA uses the SoundExpert LxT as a data acquisition front-end.

- Interactive graphs with data zoom, evaluate processing for events with linked cursors over several graphs
- Reprocess time history data to remove unwanted noise
- Customizable template-based operation

A major differentiating concept of DNA is the principle of separation of data and graphical layout. This allows for dragand-drop functionality of new data in the same layout. With many environmental studies being similar in nature, this feature allows for quick, professional looking reports.

Software Development Kit (831-SDK)

The Software Development Kit for the SoundExpert LxT interfaces smoothly and directly with the Microsoft[®] programming environment, either for Excel[®] VBA or Visual C++ programming. The SDK consists of two main parts, the SLM Server and the SLM Translator.

The SLM Translator is the library that allows for the reading of data files. The SLM Server provides on-line SLM access and control. The SDK integrates completely and seamlessly into the Microsoft[®] programming environment with the included files and interfaces.

The SDK is ideal for those who want to integrate a SoundExpert LxT into their system.

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SoundExpert LxT Features
Class 1 Precision Integrating Sound Level Meter
1/1 and 1/3 Octave filters
2GB internal, non-volatile memory
User defined Data Logging with selectable parameters and storage rate
Intervals (Measurement History) for a second independent data logger
LDEN and LDN community noise
High Contrast LCD display with LED backlight; sunlight readable
USB communication
Slow, Fast, or Impulse time weighting
A, C, and Z frequency weighting
Six (6) user defined statistic levels (Ln)
Battery life > 16 hours using 4 AA Alkaline batteries
AC and DC outputs
Multiple language support (English, German, French, Italian, Spanish, Portuguese, Swedish, Turkish)
Field upgradable firmware using SLM Utility G3
Removable Microphone and Preamplifier
Back erase -5 or -10 s
Two year limited warranty

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SoundExpert LxT Specificatio	ns
Averaging (Integration Method)	Linear or Exponential
RMS Time Weighting	Slow, Fast or Impulse
RMS Frequency Weighting	A, C or Z
Peak Frequency Weighting	A, C or Z
Sample Rate	51200 Hz
Peak Rise Time	≤ 30 µs
Range Level Error (OBA)	≤±0.1 dB
Compliance	ANSI Type 1, IEC Class 1
Ranges	Singe Range for Broadband
Maximum Clock Drift at 77 °F (25 °C)	2 ranges for OBA < 2.6 s per day
1/1 and 1/3 Octave Filters	
1/1 Octave Filters	8 Hz to 16 kHz
1/3 Octave Filters	6.3 Hz to 20 kHz
Filter Selection	None, 1/1, 1/3, or 1/1 & 1/3
Frequency Weighting	A, C or Z (unweighted)
Maximum Spectrum	Maximum in each band or at broadband Lmax
Compliance	ANSI and IEC Class 1
Logging and Measurement History	
Logging Period	1 s to 24 hr
Logged Parameter	User selectable from Leq; Lmax; Lmin; LCSeq – LASeq; LAleq – Laeq; 1/1 OBA Leq, Lmax, Lmin; 1/3 OBA Leq, Lmax, Lmin, Battery, Internal Temperature
Measurement History Period (Continuous run mode)	1 min to 24 hr
Measurement History Parameters	Leq; Lmin w/time; Lmax w/time; Lpeak w/time; Ex- ceedance counts w/duration; LAeq, Lceq, 1/1 OBA Leq, Lmax, Lmin; 1/3 OBA Leq, Lmax, Lmin
Community Noise	
Measured Parameters	LDEN, LDN
Day, Evening, Night Times	Programmable
Evening and Night Penalty	Programmable
Time Averaged Level Integration Ti	0
Time Averaged Level Integration Ti Minimum	me 1 s
Time Averaged Level Integration Ti Minimum Maximum (error < 0.5 dB)	me
Time Averaged Level Integration Ti Minimum Maximum (error < 0.5 dB) Ln Percentile	me 1 s > 23 days
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) Ln Percentile Number of User Defined Ln's	me 1 s > 23 days 6
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) Ln Percentile Number of User Defined Ln's Ln Resolution	me 1 s > 23 days 6 0.01%
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution	me 1 s > 23 days 6
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers	me 1 s > 23 days 6 0.01% 0.1 dB
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers Number of Markers	me 1 s > 23 days 6 0.01% 0.1 dB 10
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers Number of Markers Predefined Markers	me 1 s > 23 days 6 0.01% 0.1 dB
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers Number of Markers	me 1 s > 23 days 6 0.01% 0.1 dB 10 5
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers Number of Markers Predefined Markers	me 1 s > 23 days 6 0.01% 0.1 dB 10 5 Manual Stop, Timed Stop, Stop when Stable, Continu-
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Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers Number of Markers Predefined Markers Predefined Markers Measurement Modes Available Modes Manual Stop Timed Stop Stop When Stable Continuous	me 1 s > 23 days 6 0.01% 0.1 dB 10 5 Manual Stop, Timed Stop, Stop when Stable, Continu- ous, Single Block Timer, Daily Block Timer Measurement defined by run and stop button Time in hh:mm:ss Change < xx.x dB for hh:mm:ss Auto file store 1, 2, 4, 6, 12, 24, 48, 96, 144 times per day
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Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB) In Percentile Number of User Defined Ln's In Resolution Distribution Table Resolution Markers Number of Markers Predefined Markers Predefined Markers Measurement Modes Available Modes Manual Stop Timed Stop Stop When Stable Continuous Single Block Timer Daily Block Timer Ac/DC Output	me 1 s > 23 days 6 0.01% 0.1 dB 10 5 Manual Stop, Timed Stop, Stop when Stable, Continu- ous, Single Block Timer Measurement defined by run and stop button Time in hh:mm:ss Change < xx.x dB for hh:mm:ss Auto file store 1, 2, 4, 6, 12, 24, 48, 96, 144 times per day Start date and time to end date and time 3 unique start/stop times per day, multiple days
Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB)	me 1 s > 23 days 6 0.01% 0.1 dB 10 5 Manual Stop, Timed Stop, Stop when Stable, Continu- ous, Single Block Timer, Daily Block Timer Measurement defined by run and stop button Time in hh:mm:ss Change < xx.x dB for hh:mm:ss Auto file store 1, 2, 4, 6, 12, 24, 48, 96, 144 times per day Start date and time to end date and time 3 unique start/stop times per day, multiple days 2.5 mm stereo
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Time Averaged Level Integration Tr Minimum Maximum (error < 0.5 dB)	me 1 s > 23 days 6 0.01% 0.1 dB 10 5 Manual Stop, Timed Stop, Stop when Stable, Continu- ous, Single Block Timer, Daily Block Timer Measurement defined by run and stop button Time in hh:mm:ss Change < xx.x dB for hh:mm:ss Auto file store 1, 2, 4, 6, 12, 24, 48, 96, 144 times per day Start date and time to end date and time 3 unique start/stop times per day, multiple days 2.5 mm stereo ± 2.3 V peak $\geq 16 \Omega$
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Power	
Batteries	4-AA (LR6) 1.5 V Lithium or Alkaline
External Power	5V from USB
AC Power Supply	PSA029 (Worldwide)
12V Supply (optional)	PSA031 – 12 VDC to 5 VDC
Continuous Runtime	18 hours Typical using Alkaline Batteries
Continuous Runtime	30 hours Typical using 1.5 V Lithium Batteries
Continuous Runtime	> 13 Days Typical using optional BAT015

Physical Characteristics		
Length (overall)	11.4 in (29.0 cm)	
Length (instrument body only)	8.8 in (22.4 cm)	
Width	2.8 in (7.1 cm)	
Depth	1.6 in (4.1 cm)	
Weight (with batteries)	1.0 lb (471 g)	
Weight (with batteries, microphone and preamplifier)	1.1 lb (513 g)	
Maximum Preamplifier Cable Length	200 ft (61 m)	
Ingress Protection Rating	IP54	

Environmental	
Temperature Sensitivity	\leq \pm 0.5 dB +14 to +122 °F (-10 to +50 °C)
Storage Temperature	-22 to +140 °F (-30 to +60 °C)
Humidity Sensitivity	\leq \pm 0.5 dB, 30% to 95% RH $$ at +104 °F (+40 °C)

SoundExpert™ LxT Standards		
ANSI S1.4-1985 (R2001) Specification for Type 1 Sound Level Meters		
ANSI S1.43-1997 (2002) Specifications for Integrating-Averaging Sound Level Meters, Type 1		
ANSI S1.11-2004 Specification For Octave-Band And Fractional-Octave-Band Analog And Digital Filters, Classs 1		
IEC 61672-1:2002 Sound Level Meters, Classs 1		
IEC 61260:2001 Octave-Band And Fractional-Octave-Band Filters, Classs 1		
IEC 60651:2001 Sound Level Meters		
IEC 60804:2000 Integrating-Averaging Sound Level Meters		
IEC 61010-1:2001 Ed 2.0 Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use – Part 1: General Requirements		
IEC 61326-1:2005 Electrical Equipment for Measurement, Control and Laboratory Use – EMC Requirements		
CE Directive 2004/108/EC		

Ordering Information

Model	Description	
LXT1-SE-FF	SoundExpert LxT with 377B02 free-field microphone, SLM Utility G3 software	
LXT1-SE-RI	SoundExpert LxT with 377C20 diffuse field microphone, SLM Utility G3 software	
NMS-SE-FF	SoundExpert Environmental Noise Monitoring System – includes LXT1-SE-FF, EPS042, EPS2116, EXC010, SLM Utility G3 software	
NMS-SE-RI	SoundExpert Environmental Noise Monitoring System – includes LXT1-SE-RI, EPS042, EPS2116, EXC010, SLM Utility G3 software	
Included Accessories		
PRMLxT1L	Microphone Preamplifier	
PSA029	Universal AC power supply	
CBL138	USB Cable 6 ft (2 m)	
Batteries	4-AA Alkaline	
WS001	Windscreen 3.5" (90 mm)	
Optional Accessories		
CAL200	Class 1 acoustic calibrator with 1/2 inch opening	
SWW-DNA	Advanced Analysis Software	
SWW-DNA-LXT	DNA driver for SoundExpert LxT	
EPS042	Environmental Enclosure for LxT, includes BAT015 and gland for microphone cable	
EPS2116	Outdoor microphone protection	
LXT-CCS	Hard Shell carrying case	
PSA031	12 VDC to 5 VDC power converter	
EXCxxx	Microphone extension cable in various lengths	
CBL139	Cable connection AC/DC out to RCA or BNC	
TRP001	Camera type Tripod for mounting EPS2116	
Calibration		
CER-LXT1	Calibration for SoundExpert LxT	
CER-MIC	Calibration for Microphone	

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SoundExpert[™] LxT



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LxT Family of Products

SoundExpert LxT

- **Product Noise Evaluation**
- Product Line Acoustic Testing
- Site Assessment

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- Attended Noise Monitoring
- Environmental Noise Monitoring



SoundTrack LxT1-QPR

- **Firearms Acoustic Analysis**
- Shooting Ranges Noise Assessment
- Impulsive Noise Measuring

SoundTrack LxT N/Forcer

- **Community Noise Standards** and Code Enforcement
- Nuisance Noise Complaint
- Traffic Noise and 'Boom Cars'
- **Evidential Data**

SoundTrack LxT

- Workplace Noise Exposure Assessment
- Plant Noise Surveys
- Hearing Protection Analysis



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ISO 9001 CERTIFIED

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For environmental noise monitoring and building acoustics, Larson Davis offers a full line of instruments, accessories and software. For personal noise and vibration exposure monitoring, Larson Davis complements this with sound level meters, personal noise dosimeters, human vibration meters, audiometric calibration systems and hearing conservation programs. As a division of PCB Piezotronics, Inc., Larson Davis guarantees Total Customer Satisfaction through our outstanding limited warranty; no-charge, 24 hours toll-free technical support; global distribution; and worldwide customer service.

> Visit www.larsondavis.com to locate your nearest sales office