

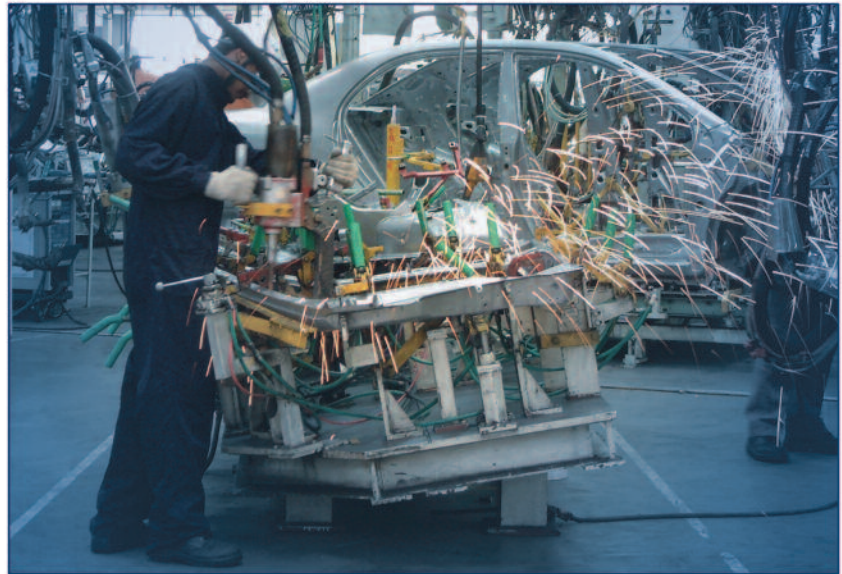


# SoundTrack LxT®

### A Real Breakthrough in Occupational Noise Analysis

#### Highlights

- Simple Operation – with just one hand!
- 30 hours operation using AA lithium batteries
- Large, bright, high-contrast LCD Screen
- 1/1 and 1/3 octave digital filters
- Extremely rugged – compact and lightweight
- Available in Class 1 or Class 2
- Multi-language for global compatibility



#### Multiple Measurements from one Sampling Session

- Real-time broadband display
- Real-time octave filters
- Real-time 1/3 octave filters
- Leq (average w/ 3 dB exchange rate)
- TWA
- Logging
- Lmax
- Lpeak
- Multiple dose and exposure calculations
- Time stamping of relevant metrics
- Digital voice annotation

#### A Revolutionary Approach to Workplace Noise Sampling

Over the years, various types of Sound Level and Octave Band Meters have been used by Industrial Hygienists and Safety Professionals for monitoring workplace noise, most requiring significant operator training and producing varying degrees of effectiveness. At Larson Davis, we believe this is because until now, Sound Level Meters were designed primarily for use by Acoustical Engineers, not for Safety and Health professionals.

The SoundTrack LxT® Sound Level Meter was developed to meet the unique needs of those involved in workplace noise exposure assessment and plant noise surveys. It is fully compliant with IEC and ANSI standards for Class 1 or Class 2 sound level meters. In addition, LXT files are fully compatible with the ISO 9612:2009 measurement strategies for task or job-based measurements.

With its sleek ergonomic design to its exceptional exposure data presentations, the SoundTrack LxT® is the perfect tool for gathering, analyzing, and presenting detailed noise environment data quickly, easily and concisely. New and better ways to organize your sampling methodology and annotate noise survey data save incredible amounts of time and provide better results – all at a price that won't consume your entire instrumentation budget.





# SoundTrack LxT<sup>®</sup>

## Easy to Use, Yet Powerful!

With its superior ergonomics and rugged compact design, SoundTrack LxT<sup>®</sup> allows you to capture the data you need while keeping one hand free – invaluable for juggling multiple tasks in hard-to reach locations. Once a test starts, LxT automatically performs all the necessary calculations of workplace exposure - to multiple compliance standards. With the ability to 'hide' display screens that are not relevant to your sampling strategy, the LxT is configurable for maximum utility and ease-of use. Add in the "Store when Stable (Leq)" feature and selective keypad lockout, and you can comfortably hand off the SoundTrack LxT<sup>®</sup> to minimally trained technicians with assurance of a positive outcome. No more skipped locations, questionable results and missing data points.

## Digital Voice Annotation

Now you can record your own observations about the environment, the worker and tasks performed, or even whether proper hearing protection is worn – all at the push of a button, using the Digital Voice Note Recording option and included headset microphone. At the end of the day, recorded notes can be played back right from your PC – they are digitally stored with related noise data and exposure calculations for future reference.

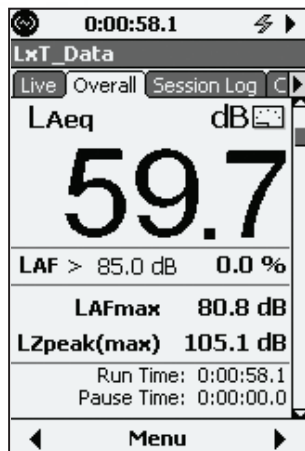
## Available Real-Time Octave Band Frequency Analysis

With optional 1/1 or 1/3 Real-Time Octave Band Frequency Analysis, the SoundTrack LxT<sup>®</sup> quickly captures frequency band data, because all Octave (or 1/3 Octave) measurements are performed simultaneously. No more tedious "stepping through" each Octave Band, as in the past – all data are captured from virtually the same point in time; which is vital for maximum accuracy in a varying noise environment. What's more, you'll save significant amounts of time performing Octave Band measurements, which are an important part of determining effectiveness of Engineering Controls or selecting proper hearing protection devices (HPD's).

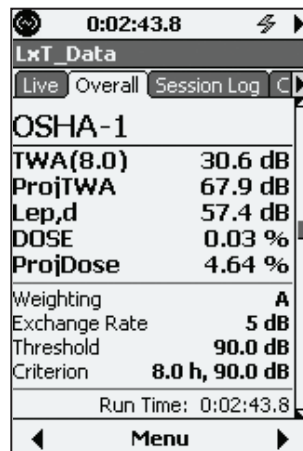
SoundTrack LxT<sup>®</sup>  
Shown with 1/3 Octave Frequency Analysis



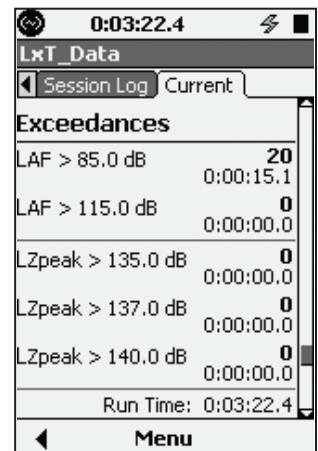
Familiar Controls for Ease-of-use



Large Numeric Display



(2) Virtual Noise Dosimeters



User Selectable Threshold Counters



Document - Manage - Examine - Present

## Generate Clear, Concise Reports with Blaze® Software



Blaze® Software is an invaluable tool for generating the types of data reports and presentations you'll be proud to share with your colleagues, your workforce, and management. Color-rich graphic summary reports provide a picture of the noise environment with only the most relevant numeric data values, enabling everyone to quickly understand the nature of the noise exposure. With super-fast USB connection, you'll go from measurement to finished report in seconds. By accessing Blaze®'s more advanced features, you will be able to provide higher-level analysis of the noise environment with as much additional annotation as needed. Copy and paste functions allow for inclusion of data into other report formats, and – for the most advanced users and research teams – a simple export function allows instant and automatic interface to popular spreadsheet programs.



Whether you'd like a one-page illustrated compliance report or a detailed breakdown of noise data, Blaze® delivers effortlessly – and supports other Larson Davis products like Spark® Noise Dosimeters and the HVM100 Vibration Exposure monitoring system. And, with our “no-hassle” software agreement, you'll never be hit with recurring licensing fees or other additional costs, should you choose to install Blaze® on other PC's or laptops within your organization.



Compliance Data Report

Overall Data & Octave Band



# Sound Level Meters for Safety & Health Professionals

## General

Integrating Sound Level Meter - Time weighting: *Slow, Fast, Impulse, TWA, Peak* (peak has independently selectable frequency weighting) Frequency weighting: *A, C, & Z, Octave, Fractional Octave* (with OBA options).

Measurement Range	LxT1	LxT2	LxT1L with optional LOW RANGE Pre-amp	LxT2L with optional LOW RANGE Pre-amp
	<b>A</b>	38 to 140 dB SPL	37 to 140 dB SPL	27 to 118 dB SPL
<b>C</b>	37 to 140 dB SPL	37 to 140 dB SPL	29 to 118 dB SPL	32 to 121 dB SPL
<b>Z</b>	42 to 140 dB SPL	42 to 140 dB SPL	34 to 118 dB SPL	36 to 121 dB SPL
<b>SPL maximum level</b>	140 dB SPL	140 dB SPL	118 dB SPL	121 dB SPL
<b>Peak level</b>	143 dB	143 dB	121 dB	124 dB

## Measurements (qty)

SPL, Leq, TWA (2), Lmin, Lmax, Lpeak, Lpeak (max), Dose (2), Proj. Dose (2), Lep,d, E, E8, E40, SEA, Ln (6), Event Counters (3); (2 RMS, 3 Peak)

## Data Storage / Communication

**Flash Data Storage:** 2GB standard

**Communication** to PC via USB

## Display / Keypad

**Display:** High contrast, monochrome, black on white, 1/8th VGA 160 x 240 dot graphics, 4 level grey-scale, bright white LED backlighting

**Keypad:** Silicone elastomer "quiet touch" with tactile feedback, 4 dedicated function keys, 3 context soft-keys, and 5 navigation keys

## Power

**Internal:** 4 AA cells, 1.5 Volts each; Alkaline, NiMH, or Lithium

**External:** 5.0 VDC  $\pm$ 5%, 500mA maximum, USB powered

**Battery life:** Approximately 22 hours (alkaline cells), 30 Hours (lithium cells), depending on usage

## Physical Characteristics

**Dimensions:** 8.8" L x 2.8" W x 1.6" D (22.4 cm x 7.1 cm x 4.1 cm), 11.5" L (29.2 cm) with preamplifier and microphone

**Weight:** 1.0 lbs (471 g), 1.1 lbs (513 g) with preamplifier and microphone

## Environmental

**Operating temperature:** 14 to 122 °F (-10 to 50 °C)

**Storage temperature:** -22 to 140 °F (-30 to 60 °C)

**Humidity:** up to 95% non-condensing

**International Protection Rating:** IP 54

## Standards Compliance

**ANSI:** S1.4-1985 (R 2001), S1.43-1997 (R 2002), S1.25-1991 (R 2007), S1.11-2004

**IEC:** 61672-2002, 60651-2001, 60804-2000, 61260-2001, 61252-2002

**CE:** Directive 2004/108/EC, IEC 61326-1:2005



## Options and Accessories

### Firmware Options

LXT-LOG	Time History Data Logging
LXT-HSLOG	High Speed Logging Option (to 100ms)
LXT-ENV	Measurement History (intervals)
LXT-CN	Community Noise, Ldn & Lden
LXT-DVA	Digital Voice Annotation
LXT-OB1	1/1 Octave Real Time Filters
LXT-OB3	1/1 and 1/3 Octave Real Time Filters

### Accessories

LXT-ACC	Type 1 Accessory Kit - Pelican case, CAL200 calibrator, PC cable, AC adapter, windscreens and Utility Software
LXT-ACC1	Type 2 Accessory Kit - same as above with CAL150 Type 2 calibrator
LXT-CCS	Hard Shell Pelican Carrying Case
CAL150	Type 2 Microphone Calibrator
CAL200	Type 1 Microphone Calibrator
SWW-DNA	Advanced Analysis Software
SWW-DNA-LXT	DNA Instrument Driver for Model LxT
SWW-BLAZE-LXT	Industrial Hygiene Software for Model LxT

### Special LxT Configurations

LXT1-QPR	High Decibel Configuration for Model LxT - includes 1/4" microphone to measure >160dB
LXT1-NFR-PK1	Type 1 Noise N'Forcer Kit - includes portable printer
LXT2-NFR-PK2	Type 2 Noise N'Forcer Kit - includes portable printer

## Complementary Industrial Hygiene Products

### Noise Dosimeters

- ✓ Compact
- ✓ Rugged
- ✓ 100 Hour Battery Life



### Vibration Exposure Monitors

- ✓ Hand-Arm per ISO 5349, ANSI S2.7
- ✓ Whole-Body per ISO 2631
- ✓ Complete with sensors and easy to use



Remember, all of these instruments are supported by Blaze® Software.



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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.

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