

# SoundTrack™ LxT

A Real Breakthrough in Sound and Workplace Noise Analysis

## Features:

- Simple Operation — with just one hand!
- 20 Hours runtime on 4 AA Alkaline Batteries
- USB 2.0 Interface
- Intrinsically Safe\*\*
- Large, Bright, High-Contrast LCD Screen
- Digital Voice Annotation\*
- Extremely Rugged — Compact and Lightweight
- Available in Class 1 or Class 2 Versions
- Multi-Language Format for Global Compatibility\*\*
- TaskMate Noise Survey Guidance System\*

## Multiple Measurements from one Sampling Session:

- Real-time dB display
- Real-time Octave Bands\*
- Real-time 1/3 Octave Bands\*
- Leq (Average w/ 3 dB Exchange rate)
- TWA/Average dB (Other than 3dB exchange rate)
- Lmax
- Lpeak
- Multiple Dose and Exposure calculations
- Time stamping of relevant metrics



**SoundTrack™ LxT**  
Compact and lightweight  
Ergonomic layout for one-handed operation

## 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 the Larson Davis Industrial Hygiene Products Group, we believe this is because until now, Sound Level Meters were designed primarily for use by Acoustical Engineers, not for Safety and Health professionals.

That's been changed forever — with SoundTrack™ LxT!

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. With its sleek ergonomic design — slender and able to be held and operated with just one hand — 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, every time — all at a price that won't consume your entire instrument budget!



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### Implement your noise sampling strategy in a more organized fashion — SoundTrack™ LxT guides and supports you every step of the way, making tedious surveys fast, easy and complete!

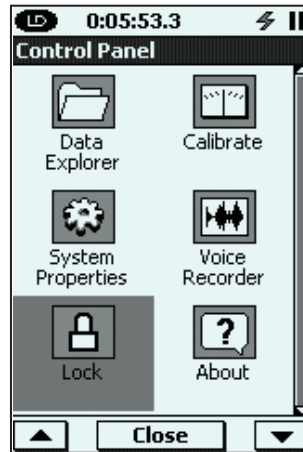
The job of undertaking periodic surveys of noise levels in an industrial facility can be tedious and sometimes frustrating — but with SoundTrack™ LxT, you can pre-plan your sampling to be certain that all points of interest — such as work areas or specific tasks — are not accidentally overlooked. With the optional “TaskMate” feature\*\*, SoundTrack™ LxT prompts and assists you at each monitoring location, displaying relevant information for executing the correct measurement. Add in the “Store when Stable (Leq)” feature and selective keypad lockout, and you can comfortably hand off the SoundTrack™ LxT to minimally trained technicians with assurance of a positive outcome. No more skipped locations, questionable results and missing data points!

### Add to your effectiveness with on-board Digital Voice Annotation — and leave pencils and notebooks behind!

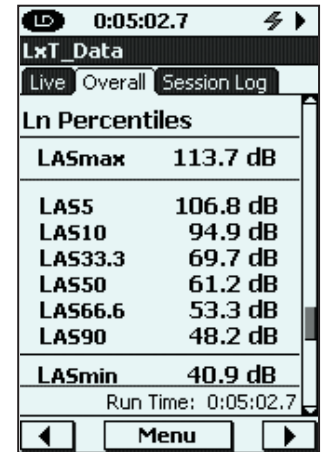
Now you can record your own observations about the environment, the worker and tasks performed, or even whether proper hearing protection is worn — all at the push of a button, using the Digital Voice Note Recording option and included headset microphone. At the end of the day, recorded notes can be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

### Real-Time Octave Band Frequency Data Available Instantly!

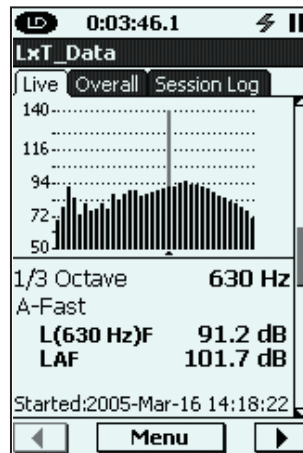
With optional 1/1 or 1/3 REAL-TIME Octave Band Frequency Analysis, the SoundTrack™ LxT quickly captures far more accurate frequency band data, because all Octave (or 1/3 Octave) measurements are performed simultaneously. No more tedious “stepping through” each Octave Band, as in the past — all data are 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).



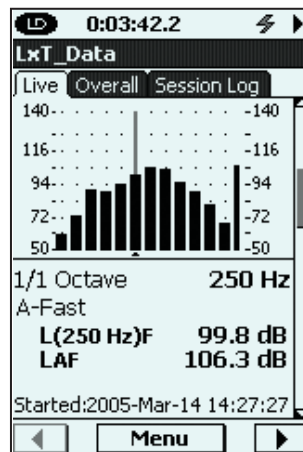
Familiar Controls for Ease-of-use



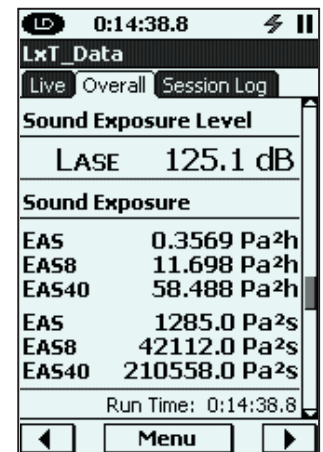
Ln Percentiles



Real-time 1/3 Octave Band Display



Real-time Octave Band Display



Sound Exposure Level



Document · Manage · Examine · Present

Compliance Data Report

<b>General Information:</b>			
Serial Number	1234		
Model Number	LxT1		
User	John Pidanick		
Job Description	Hot Rework Operator		
Location	Rework Bay 8B-f		
Start Time	Tuesday, 04 May 2004 08:42:59		
Stop Time	Tuesday, 04 May 2004 13:22:26		
Run Time	4:39:27		
Pre Calibration	Monday, 03 May 2004 09:32:45		
Post Calibration	Wednesday, 05 May 2004 12:45:56		
Calibration Deviation	.01 dB		
<b>Note:</b>			
Hearing protectors worn. Further task based study indicated.			
<b>Results:</b>			
Leq	97.0 dBA		
Lmax	116.2 dBA		
Lpeak(max)	143.9 dB		
Lmin	57.3 dBA		
Event Counts (SPL Trigger 1)	Exceeded 115 dB 7 times		
Event Counts (SPL Trigger 2)	Exceeded 120 dB 0 times		
Event Counts (Peak Trigger)	Exceeded 140 dB 83 times		
<b>Exposure:</b>			
Name:	OSHA AGCH		
Dose:	54.43 916.31 %		
Proj Dose	93.49 1573.92 %		
ProjTWA	85.6 97.0 dBA		
TWA(8)	85.6 94.6 dBA		
Laepd	94.6 dBA		
LAE	139.2 dB		
Ea	9.2374 Pa <sup>2</sup> /hr		
EA8	15.9697 Pa <sup>2</sup> /hr		
EA40	79.8485 Pa <sup>2</sup> /hr		
SEA	144.2 dB		
<b>Statistics:</b>			
L05	75.1 dBA	L50	61.0 dBA
L10	72.5 dBA	L70	59.5 dBA
L30	64.5 dBA	L90	59.5 dBA
<b>Spectra:</b>			
Freq. (Hz)	8.0 16.0 31.5 63.0 125 250 500 1000 2000 4000 8000 16 K		
Leq	79.2 81.2 83.4 86.7 87.5 86.8 87.4 86.5 81.9 59.6 48.8 39.7		
Max	93.1 97.1 101.9 105.3 105.2 104.7 105.2 102.5 91.3 75.4 64.0 44.3		
Min	56.1 66.5 58.4 58.8 50.7 55.4 67.4 52.5 46.8 41.8 41.1 38.0		
<b>Settings:</b>			
Exchange Rate	5 3		
Threshold:	80 80 dBA		
Criterion Level:	90 85 dBA		
Criterion Duration			
Freq. Weighting:			
Peak Weighting:			
Detector:			

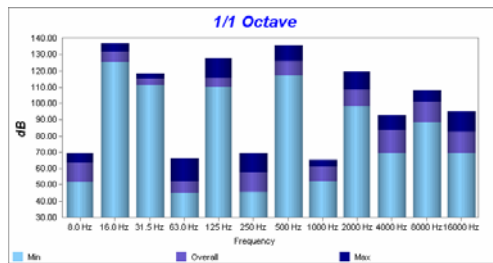
Summary Report 05 May 2004 13:32:30  
 User: John Pidanick  
 Location: Rework Bay 8B-f  
 Job Description: Hot Rework Operator

Serial Number:	1234	Start:	04 May 2004 08:42:59
Model Number:	LxT1	Stop:	04 May 2004 13:22:26
Freq. Weighting:	A Weighting	Run Time:	4:39:27
Peak Weighting:	Unweighted	Pre Calibration:	03 May 2004 09:32:45
Detector:	Slow	Post Calibration:	05 May 2004 12:45:56
		Deviation:	.01 dB

Leq	97.0 dBA	L05	75.1 dBA
Lmax	116.2 dBA	L10	72.5 dBA
Lpeak(max)	143.9 dB	L30	64.5 dBA
Lmin	57.3 dBA	L50	61.0 dBA
Event Counts (SPL trigger 1)	7	L70	59.5 dBA
Event Counts (SPL Trigger 2)	0	L90	59.5 dBA
Event Counts (Peak Trigger)	83		

Dose:	54.43	916.31 %	Laepd	94.6 dBA
Proj Dose	93.49	1573.92 %	LAE	139.2 dB
ProjTWA	85.6	97.0 dBA	Ea	9.2374 Pa <sup>2</sup> /hr
TWA(8)	85.6	94.6 dBA	EA8	15.9697 Pa <sup>2</sup> /hr
Name:	OSHA	AGCH	EA40	79.8485 Pa <sup>2</sup> /hr
Exchange Rate	5	3	SEA	144.2 dB
Threshold:	80	80 dBA		
Criterion Level:	90	85 dBA		
Criterion Duration	8	8 hours		

**Note:**  
 Hearing protectors worn. Further task based study indicated.



Overall Data & Octave Band

## Generate Clear, Concise Reports of the Noise Environment — with Blaze® Software; a “Proven Effective” Tool for Documenting Workplace Noise Exposure!

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 and possible problems the data may represent...hard-to-understand reports filled with 'data overload' generated by those 'other' programs are a thing of the past! 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 great Larson Davis products like Spark® Noise Dosimeters and the IHVM100 Vibration Exposure monitoring system — all at no extra cost! 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.



SoundTrack™ LxT goes to where the work is!



### Why Choose a Larson Davis Product?

Larson Davis has decades of experience in designing and building top-quality, affordable instruments that are fun to use and which 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.

### Other Great Products from the Larson Davis Industrial Hygiene Group:

#### Noise Dosimeters

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



#### Vibration Exposure Monitors

- ✓ Hand-Arm per ISO 5349
- ✓ Whole-Body per ISO 2631
- ✓ Complete with sensors and easy to use



Remember, all of these instruments are supported by one great software — Blaze®

Consult factory for standard configurations and option availability.

\*Optional feature, consult factory for availability \*\* Pending †Microphone and electrical self-noise included.



SoundTrack™ LxT1 Shown with optional DVA (Digital Voice Annotation)



SoundTrack™ LxT Mounts on a standard camera tripod

General				
Integrating Sound Level Meter - Time weighting: <i>Slow, Fast, Impulse, TWA, Peak</i> (peak has independently selectable frequency weighting) Frequency weighting: <i>A, C &amp; Z, Octave, Fractional Octave</i> (with OBA options).				
	LxT1	LxT2	LxT1 with optional LOW RANGE Pre-amp	LxT2 with optional LOW RANGE Pre-amp
Measurement Range†	A	38 to 140 dB SPL	37 to 140 dB SPL	27 to 118 dB SPL
	C	37 to 140 dB SPL	37 to 140 dB SPL	29 to 118 dB SPL
	Z	42 to 140 dB SPL	42 to 140 dB SPL	34 to 118 dB SPL
SPL maximum level†	140 dB SPL	140 dB SPL	118 dB SPL	126 dB SPL
Peak maximum level	143 dB	143 dB	121 dB	129 dB
Measurements (qty)				
SPL, Leq, TWA(2), Lmin, Lmax, Lpeak, Lpeak(max) Dose(2), Proj. Dose (2), Lep,d, E, EB, E40, SEA, Ln (6), Event Counters (3); (2 RMS, 1 Peak)				
Data Storage / Communication				
Flash Data Storage: 8MB standard, 128MB optional				
Communication to PC via USB2.0				
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 Photo-Lithium				
External: 5.0 ±5% 500mA maximum, USB powered				
Battery life: approximately 20 hours, depending on usage, alkaline cells				
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				
IP 54				
Standards Compliance				
ANSI	S1.4-1985 (R 2001), S1.43-1997 (R 2002), S1.25-1991 (R 2002), S1.11-2004			
IEC	61672-2002, 60651-2001, 60804-2000, 61260-2001, 61252-002			
CE	Compliant			



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### Total Customer Satisfaction Guaranteed

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Larson Davis provides a complete line of acoustic and vibration measurement tools including dosimeters, sound level meters, real time analyzers, pre-amplifiers, calibrators, and microphones.