
List of enhancements and fixes made to Larson Davis SoundTrack LxT® Firmware¹

LxT V2.112 Enhancements and Fixes

January 2011

- Corrected an issue, introduced with version 2.110, that caused the noise floor of the 1/1 and 1/3 octave bands to be higher than expected when in Low Range; in some cases as much as 20dB.

LxT V2.110 Enhancements and Fixes

November 2011

- Added support for 375B02, PRMLXT2B, 377C10 and 377C01.
- It is now possible to turn off power when lock mode is enabled.
- Changing the microphone type setting now requires stopping the measurement.
- Fixed a bug that causes the instrument to crash when OBA weighting is set to
- A-weighting and OBA statistics are enabled.
- Fixed a bug that caused random lockups and crashes; especially when booting the instrument.
- Restricted Evening time to be between Day and Night time settings for LDEN.
- Streaming data now uses a more accurate time stamp.
- The Voice Recorder progress bar is now reset when terminating a saved recording.
- Voice annotation record progress bar now moves even if the record is not saved.
- Fixed Measurement History timestamp error that occurred when Daily Auto-Store was set to midnight.
- Fixed Data Explorer incorrectly showing file size of 0 kB.
- Fixed Voice Recorder occasionally causing the meter to get stuck when in the "Run Pending" state.
- Sound output no longer continues after stopping playback.
- When viewing a file in the Data Explorer, the OSHA-1 and OSHA-2 pages of Overall and Measurement displays now show the Detector correctly.
- Fixed time of day drift that occurred while using ScreenGrabber.
- Fixed a problem that caused the broadband Lmax data not to be reset between records in the Time History record.
- Time History LZpeak(max) when compared to Overall LZpeak(max) now match.
- Fixed Time History Peak Levels being displayed as invalid when period is 1 minute or longer.
- Fixed USB bugs associated with thumb drives.
- When using daily timers, the run time is now managed more accurately.
- Added ability to bring the LxT out of standby mode using SLM Utility-G3.
- Microphone sensitivity now supports 4 digit calibration values.
- Large digit display updates at approximately four times per second for Fast time weighted metrics.
- Stored files display using the preferences that were active when file was stored.
- Instrument identification expanded to two lines.
- The sound level displayed in the mark sound type display is more stable.
- The print screen image is gathered immediately so changing displays will not cause an unwanted screen to be printed.
- On spectra Ln displays, cursor now stops at 20kHz filter.
- If run mode is set to "stop when stable" and the LxT is set to Auto-store the file, the instrument will no longer become unresponsive after run has been pushed.
- Measurement History bug fixed that could cause 0.1s record when using timers.

¹ Note: Numbers in parenthesis such as "(3210)" are an internal tracking number.

- Missed samples when pressing run can cause spectral noise is fixed.
- Accuracy improved for time stamp in streaming data.
- When OBA is off or uninstalled, sometimes calibration or voice recording can cause time history data to be incorrect.
- Czech language support added.
- BootLoader enhanced to provide the following functionality:
 1. Press and hold Tools and Enter simultaneously will force bootloader to wait 120s before loading firmware. This allows time to program new firmware
 2. Press and hold Power key will turn off LxT
 3. Press and hold Stop, Reset and Enter simultaneously will cause the LxT to format internal SD flash. This is useful if the LxT fails to fully boot because of a corrupt file system.
- LxT will reliably come out of power save mode without appearing to lock up.
- Under-range indication calculations were corrected.
- 1s data graph on Live tab displays 1s Leq data, previously 0.1s data was shown.
- Memory management improved to avoid low memory reboots when LxT heavily used.
- When using back erase, the records marked in time history could be one too many.

LxT V1.522 Enhancements and Fixes

May 2010

- Internal maintenance release.

LxT V1.521 Enhancements and Fixes

March 2010

- When OBA is off or uninstalled, sometimes calibration or voice recording can cause time history data to be incorrect.

LxT V1.520 Enhancements and Fixes

November 2009

- Loading V1.520 firmware will cause LxT to reformat data drive and reset settings.
- Added QC tonality.
- Fixed "black bar" lockup that could occur while booting.
- Added printouts for NForcer application.
- Several bug were fixed that will lead to improved reliability when making long term measurements.
- QC Tonality algorithm modified to exclude tones if tonal band is not greater than both sidebands.
- Fixed an issue when power-save is enable the LxT display will not always repaint correctly upon exit.
- Updated Brazilian Portuguese translations.
- Use with SLM-Utility G3 V1.520 or later.

LxT V1.512 Enhancements and Fixes

May 2009

- Allow USB memory sticks larger than 2GB to be detected properly.
- New "move all internal files to USB".
- New Time history time synchronization with Measurement History time sync.
- LDEN and LDN calculation changed to integrate over actual measured time (like 831, 824 and 820).
- Get file system corrupt message when booting.
- Setting OBA bandwidth to OFF will now disable all OBA controls.

- Backlight time option for 60s was changed to "Always On", which will leave the backlight on.
- 60s backlight time will not turn off if USB power is available..
- Portuguese split into a European and Brazilian version.
- Cursor added to back-erase display to note erase point.
- Internal temperature now follows preferences for units..
- Annotation of preamplifier types was sometimes reported wrongly in the calibration history.
- Changed default for delete all internal files from yes to no.
- Labeling of data in time history displays improved.
- Added printer support (PRN003).
- Added ability to temporarily turn off purchased options (masking).
- Added measurement counter field to the timed stop run mode.
- The name of the "Enforcement" display has been changed to "Digital".
- On some instruments ScreenGrabber acted slowly or would hang, this is fixed.
- Cursor will now move to the sum bar on OBA displays.
- Duration, run time and pause time now shown on overall tab.
- By-Time displays added to time history tab.
- Calibration spectrum now available.
- Ability to format a USB thumb drive.
- Added TaLarm display for German customers.

NOTE: Use with SLM-Utilities-G3 V1.51 or later.

LxT V1.309 Enhancements and Fixes

February 2008

- Instrument can't boot if all screens are disabled in Tools > System Properties > Displays.
- Some files can't be downloaded when you upgrade from earlier versions.

NOTE: Use with SLM-Utilities-G3 V1.4.5 or later.

LxT V1.308 Enhancements and Fixes

December 2007

- When 1/3 octave max is logged in time history and the detector is set to fast, the max levels were incorrectly low.
- When viewing the Measurement History 1/3 octave max spectrum on the LxT, the data was incorrectly displayed, yet stored correctly.

LxT V1.307 Enhancements and Fixes

November 2007

- SLMScreenGrabber 2.1.4 used with LXT with DSP V0.5 causes instrument lock-up.
- Download file occasionally loses data during transmission is addressed with Error-Checking Protocol on USB file downloads.
- Time history peak can have 0dB levels in DNA, "- - -" on instrument. This was caused because the peak detector was returning a level of 0 and $\log_{10}(0) = \text{undefined}$. This has been changed to report the level associated with the peak detector noise floor.
- When the OBA is A-weighted and integration method is exponential, a mathematical error has been fixed that could cause low frequency levels to read very high (>130dB).
- The standards declaration on the about screen has been changed to be consistent with the new back labels.
- A bug in exported LAeq - LAeq visible in the SLM-Utility-G3 export to MS Excel or CSV files.