



# LISTEN<sup>INC</sup>

## SoundCheck<sup>®</sup> 8.0 & 8.1 New Features

SoundCheck<sup>®</sup> 8.0 and 8.1 contains a host of new features which improve productivity and make SoundCheck faster and easier to use. Upgrades include improvements in printing, calibration, saving and sequence editor functionality. These enhancements facilitate use by large corporations where multiple operators may use a system, as sequences may easily be shared with other systems, and data may be collected and saved over a network. There are also algorithm improvements that offer faster throughput and additional analyses.

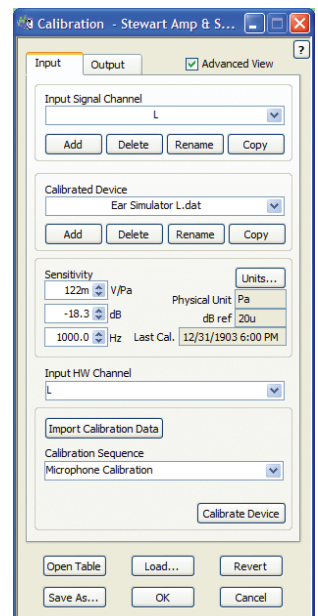
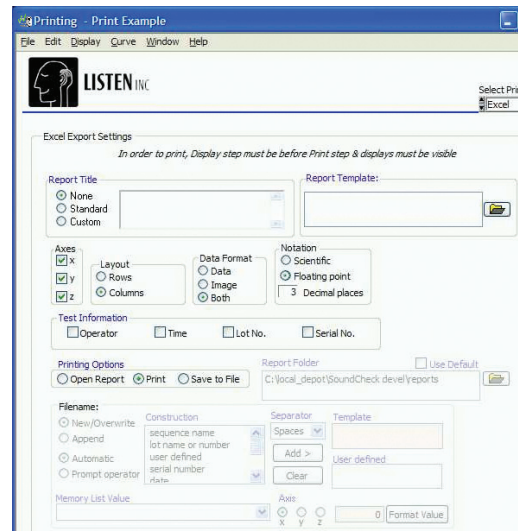
### Printing

SoundCheck now offers increased reporting functionality and flexibility with the capability to save data and images independently, or to Excel, Word or HTML. In particular, the use of Excel as an output option means that numerical and graphical data can easily be shown alongside each other in a report. In both Excel and Word, there is additional layout flexibility as SoundCheck seamlessly integrates with user-defined templates. This enables the user to precisely define a report layout, and automatically export data to it, either manually or as a sequence step. A direct print-preview option enables the resulting Word or Excel reports to be viewed.

A direct 'print to file' capability enables saving to a report to be integrated into a sequence step, so that reports are automatically generated and autosaved as part of a test sequence. Extended options for automatic file-naming offer additional flexibility. The autosave function also offers improved operation – an apply button shows the effect of any changes without re-running the entire sequence, and the results can be saved to any user-defined location.

### Calibration

A complete overhaul of calibration offers considerable time-saving advantages to the user. All transducer calibration data is now saved in a common database, which means that it can be shared among calibration steps and automatically updated. The transducer being used is simply selected from a drop-down list and the calibration data is automatically imported into the sequence. If a transducer is changed in a sequence, it is a fast and simple task to simply select the new transducer. External correction and equalization curves can be directly imported into the calibration database, which is much faster than the methods used in earlier versions of SoundCheck. It also means that the post-processing module is no longer required in order to import calibration curves. New in version 8.1, full calibration history for each device is stored in the calibrated device .dat file. Every time the user recalibrates and saves the calibration step, a new entry is created in the calibration history. This helps the user to view past calibration data for the device and helps identify trends in the device's calibration (e.g. changing sensitivity).





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## SoundCheck® 8.0 & 8.1 New Features (cont)

### Mono channel in/out

A hardware channel can now be configured as mono in addition to left or right. This means that when testing mono devices such as Bluetooth headsets and USB microphones, it is possible to set the level to maximum output saturation.

### Smaller installation file

SoundCheck is now a single executable file which makes it faster and reduces its size on disk.

### Process priority

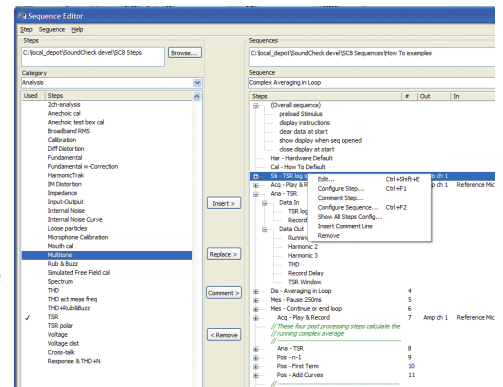
SoundCheck now allows you to give CPU priority to Soundcheck over other applications. This ensures that your production line is not slowed by Windows background operations.

### Memory List Enhancements

In the memory list, a 'delete all tabs' function is now available, which avoids having to delete the contents of each tab separately. The user can also select more than one file when opening data files, and use the curve name as the default file name when saving it to disk.

### Sequence Editor

Changes to the sequence editor improve usability. Comment lines can now be added to clearly explain sections of the sequence, and can also be added to individual steps for further clarification. The data in and data out at each step are listed when the step is expanded, which shows the user exactly what the input and output data are for each step, further improving understanding of the sequence. A 'replace step' feature speeds up sequence design and modification, and also ensures that conditional loops are not broken when steps are replaced with new ones.



### New and Improved Algorithms

- A faster frequency shift algorithm with output of the jitter curve in the memory list offers increased testing speeds for digital devices which have their own digital clock.
- A faster LogTSR stimulus with a choice of time windows enables LogTSR testing of loudspeakers, microphones, etc. at production line throughput rates up to six times as fast as earlier versions.
- Record level monitoring enables the user to optimize the dynamic range of the measurement, resulting in a better SNR ratio and therefore more accurate measurements.
- SoundCheck now includes a MLS stimulus to enable direct comparison with other measurement systems.
- The loose particles algorithm is now faster and offers a cleaner envelope, which makes it easier to set limits.
- Wavefile streaming in the signal generator with real time equalization removes memory limitations on the length of test signals, which means that longer test signals such as those required for analysis of speech and music can easily be accommodated.

