



SenTIME

Time based Sound Visualization & Analysis

SenSound's powerful software tools allow you to diagnose noise sources faster and more accurately.

Using new and patented acoustic holography techniques, SenSound tools allow you to make acoustics measurements and visualize acoustic pressure, intensity and particle velocity in three dimensions.

With our suite of tools, you can:

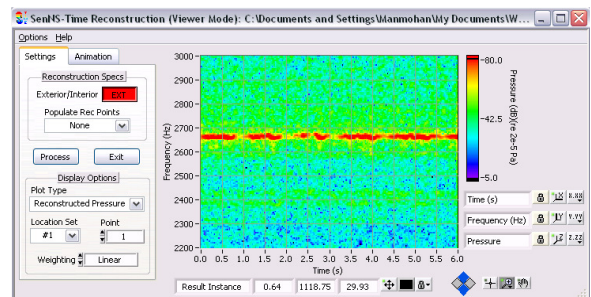
- Pinpoint noise sources for interior or exterior sound fields,
- Link source images to order tracking or changes over time,
- Determine the vibration modes responsible for sound radiation, and
- Identify the contribution of different noise sources to the overall noise level.

The bottom line is that SenSound tools give you a competitive advantage by delivering the insight into noise necessary to reduce engineering, warranty and quality control costs, design and build quieter products faster, and demonstrate that your products meet customer specifications in an objective, credible and easy to understand manner.

SenTIME lets you visualize 3D non-stationary sound fields reconstructed by SenHELNS, as a function of time. SenTIME's 3D graph displays spatial distributions for pressure, velocity and intensity for any frequency and time selected in SenTIME's waterfall graph. This same waterfall graph displays these parameters for any point in space selected on the 3D graph.

TIME/FREQUENCY RANGE

You can step through a given time instance or frequency range automatically, yielding an animated display, or manually choose the frequency and time instantly to display spatial (3D) data. When set to step automatically, you can select both the range of time or frequencies over which to sweep and the rate at which to sweep. This flexibility will let you quickly find and view the time instants or frequencies of interest. You have the option to display the acoustic pressure on dB, dBA, dBB, or dBC scale in spectrogram display.



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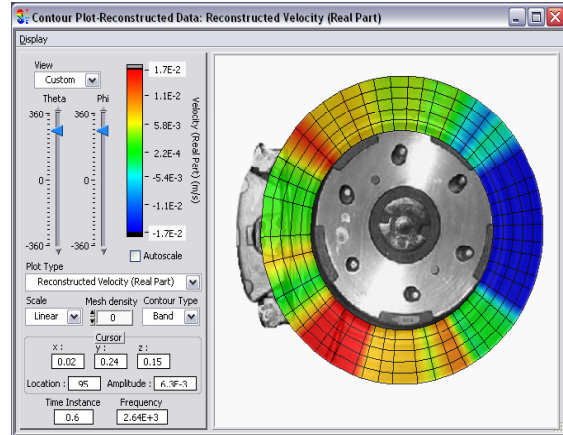
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CONTOUR PLOT

The contour plot is very flexible, allowing you to visualize the data in the way that makes the most sense for your application.

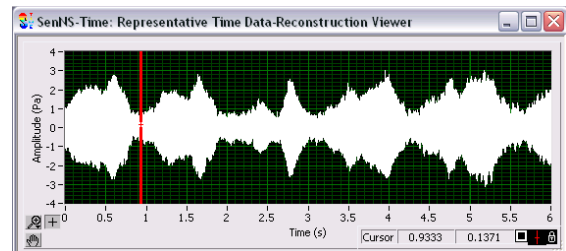
You can:

- Superimpose the contour plot over a JPEG image of the test object and set the transparency of the plot to allow you to see where the hot spots are with respect to the surface of the test object.
- Set the contour plot to auto scale, meaning that the program will select a scale that will allow you to see the complete amplitude range of the data on the 3D surface, or define the scale yourself, which will allow you to zero in on a particular amplitude range of interest.
- Select the mesh density, increasing or decreasing the number of interpolation points on the contour plot.
- Select pre-defined viewing angles, such as towards XY, YZ, or ZX coordinate planes, or set a specific viewing angle.
- Visualize all three acoustic parameters, pressure, velocity, and intensity together linked to the frequency-time spectrograms.
- Save plots on the 3D Graph as images for inclusion into your reports or presentations.



MEASURED DATA SPECTROGRAM

SenTIME also lets you view measured pressure-time data. You can view the acoustic pressure-time data at each of the array microphones and the reference microphone or view 3D distribution of measured acoustic pressure over the array microphones for any frequency-time instance on the measured data spectrogram.



SYSTEM REQUIREMENTS

- IBM PC or equivalent with a Pentium 2GHz or higher processor
- Windows 98 or higher
- XGA 1024x768 resolution (we suggest using a higher resolution monitor for better graphic interfaces)
- 512 MB of RAM (1-2 GB suggested; higher the memory, better the performance)
- 200 MB of free disk space for installation. More disk space is required for data storage depending on the use and data management practices.
- CD-ROM drive
- Mouse or other pointing device

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