

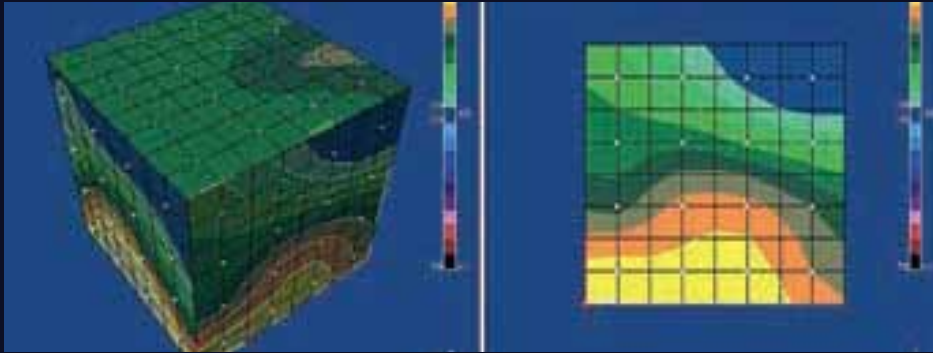
Customer Spotlight

Brüel & Kjaer software suite powered by Open Inventor® Solving sound and vibrations problems



Brüel & Kjaer has a wide product range in excess of 1.500 products, including transducers, a full range of hand-held sound level meters, analyzers, systems, service products and customised solutions. The products and solutions are sold to a wide range of industries including automotive, aerospace, consumer goods, rotating machinery, telecommunication and government agencies.

Solving sound and vibrations problems



First page: Sound field visualization on the surface of a car engine research model. Results obtained using software developed by Brüel & Kjaer and making use of Open Inventor® by Mercury and MeshViz.

Courtesy of DaimlerChrysler AG, Germany.

Left: Screen dump from Brüel & Kjaer sound field visualization software developed using the Open Inventor® by Mercury and MeshViz graphics libraries. Figures show sound intensity on a box surfacechanging boundaries.

Brüel & Kjaer Sound & Vibration Measurement A/S has selected the Open Inventor® by Mercury and MeshViz graphics libraries from VSG for advanced 3D visualization tasks in a range of the company's software applications. Sound and vibration analysis hardware and software from Brüel & Kjaer, the world's largest supplier of noise and vibration measurement systems, is used in a broad range of industries including the automotive and aerospace industries.

The company uses the VSG graphics libraries for 3D sound field visualization in both commercial and research software applications including Sound Intensity Mapping, Nearfield Acoustic Holography, and Inverse Boundary Element Methods. These applications enable noise and vibration engineers to study in detail the sound field around a test object both on the object surface itself and in the surrounding field.

This helps to quickly pinpoint specific noise sources on the test object and in turn specify modifications to reduce or alter the radiation characteristics.

The C++ class library structure of **Open Inventor®** and MeshViz has allowed for easy integration into existing Brüel & Kjaer software platforms and rapid development of advanced.

Images: Brüel & Kjaer

About Open Inventor®

Open Inventor® by Mercury provides the power and functionality of OpenGL® at an object-oriented level. Its extensible architecture, its large set of advanced components, including seamless integration between visualization and GPU computation, provide developers with a high-level platform for rapid development of the most demanding 3D graphics applications.

About Brüel & Kjaer

Brüel & Kjaer is a world leading manufacturer and supplier of sound and vibration solutions. They help their customers solve their sound and vibration problems from measuring traffic noise and vibration in car engines to evaluating building acoustics and performing quality control.

Brüel & Kjaer 

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