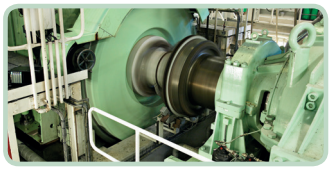
PULSE Reflex Structural Dynamics

Make decisions based on results you can trust

PULSE REFLEX™

The Product of Intuition



A LONG-TERM BUSINESS PARTNER

Brüel & Kjær delivers innovative solutions that create sustainable value for customers in a diverse number of industries

www.bksv.com/StructuralDynamics

Brüel & Kjær

Fast, intuitive and powerful

PULSE Reflex Structural Dynamics is an advanced suite of applications for structural testing, and for integrating structural testing and simulation. It allows you to observe, analyse and document the dynamic behaviour of structures and provides accurate results even in the most demanding situations.

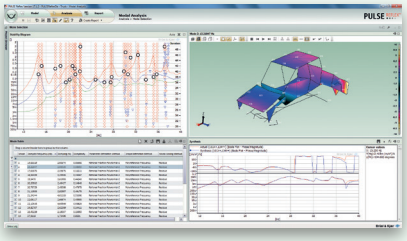
PULSE Reflex Structural Dynamics is the culmination of extensive customer surveys and helps you work more efficiently to shorten time-to-market and reduce costs, while developing high-quality innovative products with strong brand value.

PULSE Reflex Structural Dynamics provides:

- Enhanced usability for high productivity with an intuitive modern user interface
- Open data policy that supports a wide range of native and third party formats
- Consistent user interface throughout all applications encouraging faster learning of new applications

PULSE Reflex is part of Brüel & Kjær´s complete solutions for structural dynamics within controlled excitation tests, real-life operational tests and test-FEA integration. We supply the complete measurement and analysis chain from modal exciter systems, transducers and data acquisition hardware, to measurement and post-processing software.

To learn more, visit: www.bksv.com/StructuralDynamics



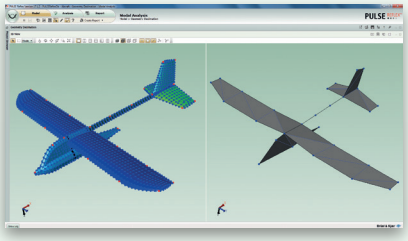
Reflex Modal Analysis

Reflex Modal Analysis enables you to perform Classical Modal Analysis even in the most demanding situations by using a targeted set of best-in-class mode indicator functions, parameter estimation methods, and measurement and analysis validation tools.

Accurate modal parameters are quickly obtained by following an intuitive, yet flexible workflow process.

Reflex Modal Analysis helps you to:

- Estimate modal parameters that will be used for FE model correlation and updating, design verification, benchmarking, quality control and troubleshooting
- Perform single and polyreference modal analysis – even on inconsistent data

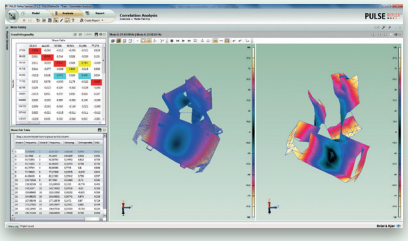


Reflex FE Interfaces

The Reflex Finite Element Interfaces enable you to import FE models (geometry, reduced mass matrix and results) from leading programs like NASTRAN®, ANSYS®, ABAQUS® or as UFF files.

The interfaces enable test planning and test validation in Reflex Modal Analysis including:

- Animation of FE models to investigate frequency range of interest, mode density, target modes, etc., for optimal selection of excitation and response locations for modal testing
- Decimation of FE geometrics to test geometrics for modal testing
- Comparison of modal test results with FEA results



Reflex Correlation Analysis

Reflex Correlation Analysis enables you to correlate two modal models whether they are finite element models or test models based on CrossMAC and CrossOrthogonality calculations.

Graphical tools ensure fast and accurate geometry alignment of the modal models.

Reflex Correlation Analysis helps you to:

- Evaluate different test and modeling strategies
- Identify shortcomings in modal tests
- Identify areas of insufficient Finite Element modeling quality
- Define targets and update variables for model updating

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HEADQUARTERS: Brüel & Kjær Sound & Vibration Measurement A/S · DK-2850 Nærum · Denmark
Telephone: +45 7741 2000 · Fax: +45 4580 1405 · www.bksv.com · info@bksv.com
Local representatives and service organisations worldwide

Brüel & Kjær