

Reflex Core & Modal Analysis 를 이용한 통합 분석 기법

황 문 주†

1. INTRODUCTION

In a customer survey of software quality carried out at the end of 2006 we asked our customers how well we were doing based on four specific aspects of software quality—Stability, Performance, Ease-of-Use and Functionality. The customers were asked to rate the criteria based on their perception of the importance of each criterion and then how well B&K performed.

2. PULSE Reflex - the product of intuition

PULSE Reflex is a workflow strategy that we apply to test and measurement software to create consistent, high-performance applications that are intuitive to use and that openly share data in a PC environment. PULSE Reflex aims to make the next step in the workflow process obvious and intuitive.

PULSE Reflex is designed to be easy-to-use by standardising the user interface components and emphasising only the most commonly used features.

PULSE Reflex is a major evolutionary step in the development of the world’s most popular sound and vibration platform, PULSE. Designed in close cooperation with end-users from diverse sectors of industry around the globe, PULSE Reflex has ease of use and high productivity at its heart.

PULSE Reflex is designed to optimise your workflow so you can share data across applications and vendors, visualise results quickly, and create high quality reports with ease. With PULSE Reflex, functionality is at your fingertips. Common operations are grouped

together in dedicated regions of the screen. You control whether they are visible or hidden to give you maximum focus and screen space for whatever task you are performing.

PULSE Reflex enables you to centralise and organise all your knowledge and information on the project at hand.

PULSE Reflex has an architecture that allows multiple users working on different aspects of a problem to collaborate and share data and results.

Take notes as you go along and record every thought as it occurs using the versatile but simple to use notes section. You can include sounds, photographs, or videos and link them to items in your project to provide a lasting reminder of how or why critical decisions were made.

3. PULSE Reflex

PULSE Reflex Core

PULSE Reflex Core is the nucleus of the application suite for off-line processing of stored time-domain and frequency-domain data. From troubleshooting to routine testing, it brings high efficiency, high productivity and high quality results.

You can quickly view and listen to large volumes of time data across multiple recordings or select sections of time-data for further processing, such as filtering, statistical analysis, spectral analysis and order analysis.

Take notes and link them to your data to remind you of key decisions or critical project issues. Display your results at each stage of the process and link them to your report as you go along.

† 황 문주; B&K Division of Spectris Korea LTD.
E-mail : mjhwang@bksv.com
Tel : (031) 705-0605, Fax : (031) 708-0602

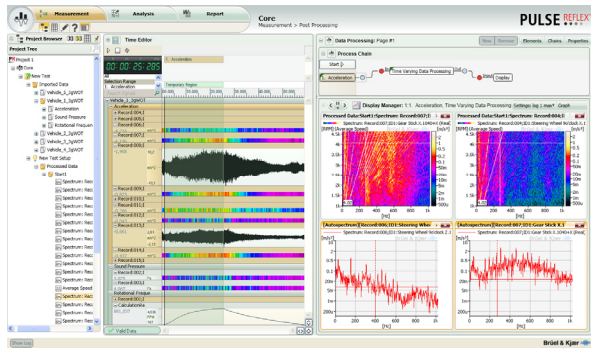


Fig. 1 PULSE Reflex Core User Interface

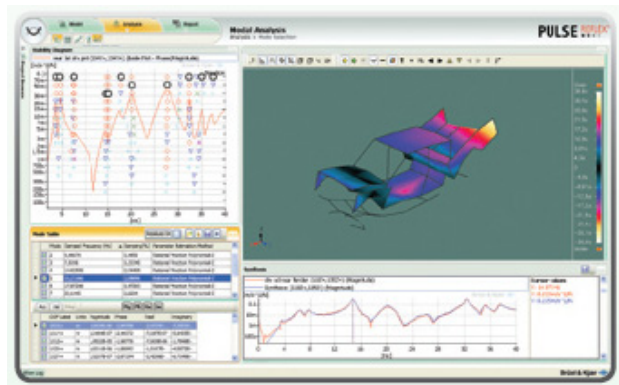


Fig. 2 PULSE Reflex Modal Analysis User Interface

PULSE Reflex Modal Analysis

Bruel & Kjaer is a leading supplier of complete modal analysis solutions ranging from impact test systems with a single hammer and accelerometer to large multi-shaker systems with hundreds of accelerometers. From troubleshooting and benchmarking to design and model validation, applying the PULSE Reflex concept to modal analysis gets you accurate results in a quick and easy way. It guides you efficiently through measurement validation, parameter estimation setup, mode selection, analysis validation and reporting.

4. CONCIUTION

PULSE Reflex takes the world's most popular sound and vibration platform to a new level. Designed in close cooperation with end-users from diverse sectors of industry across the globe, PULSE Reflex makes sound and vibration analysis easy. A new graphical user interface optimizes your workflow so you can share data across applications, visualize results quickly, and create high quality reports with ease. And with three applications – Core Analysis, Modal Analysis and Building Acoustics–PULSE Reflex extends the measurement and analysis chain to include world class post-processing.

