



ACQUISITOR

Data Acquisition with Advanced Processing Capabilities

Benefits

Ease of Use: Intuitive user interface for quick setup.

Versatility: Compatible with various data acquisition hardware.

Customization: Allows for tailored configurations and calculations.

Scalability: Adaptable to different measurement needs and system sizes.

Real-time Visualization: Provides live data monitoring during tests.

Advanced Signal Processing: Perform real-time analysis, including filtering and FFT.

Data Logging and Export: Supports logging in multiple formats for analysis.

Streamlining Data Acquisition and Analysis

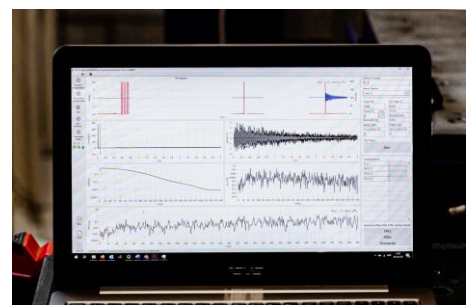
In today's technologically advanced world, data acquisition and analysis capabilities are essential for optimizing system performance and ensuring reliability.

Acquisitor is a powerful data logging and monitoring software developed by V2i. It's designed to simplify the process of acquiring, visualizing, and analyzing data from a variety of sensors and measurement instruments.

With Acquisitor, users can easily configure sensor channels, visualize measurements in real-time using customizable displays, and automate data logging tasks. It supports a wide range of hardware devices, making it suitable for various applications across industries such as automotive, aerospace, manufacturing, and research.

One of the key features of Acquisitor is its intuitive user interface, which allows users to quickly set up measurement tasks without needing extensive programming knowledge. It provides a drag-and-drop interface for configuring channels, setting up triggers, and creating custom dashboards for data visualization.

Acquisitor also offers powerful analysis tools, including built-in calculations, data processing functions, and the ability to export data to popular formats for further analysis in third-party software. Overall, Acquisitor streamlines the data acquisition and analysis workflow, helping users efficiently gather insights from their measurements.



EXPLORING DYNAMIC BEHAVIORS WITH ACQUISITOR

Benefits

Structural Integrity: Evaluate how structures respond to sudden loads and analyze dynamic behavior.

Performance Optimization: Determine natural frequencies and mode shapes to avoid resonance and enhance efficiency.

Noise and Vibration Control: Identify and mitigate noise and vibration issues.

Failure Prediction: Identify potential failure modes and locations, enabling preventive maintenance strategies.

Quality Assurance: Ensure products meet standards through experimental testing.

Model Calibration: Validate and improve accuracy of simulation models with experimental data.

Comprehensive Data Analysis: Acquisitor offers robust tools for efficient data analysis, visualization, and reporting of modal test results.

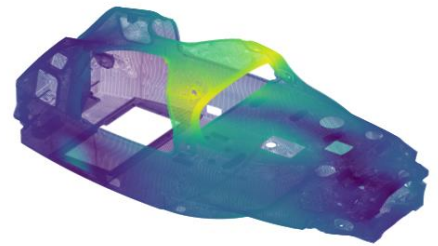
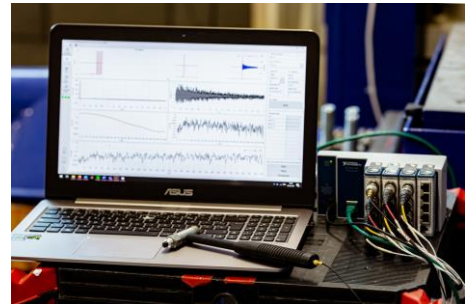
Impact Testing and Modal Analysis

Impact testing and modal analysis are crucial techniques used in engineering and structural analysis, and Acquisitor provides various tools for these tasks.

Impact testing involves subjecting a structure to a controlled impact or force, typically using a hammer or other instrument, and measuring the response of the structure. This can help engineers understand how a structure behaves under dynamic loading conditions, such as during sudden impacts or vibrations. Impact testing is valuable for assessing the structural integrity, durability, and performance of components or systems, especially in industries like automotive, aerospace, and civil engineering.

Modal analysis is a technique used to study the dynamic characteristics of structures. It involves identifying the natural frequencies, mode shapes, and damping properties of a structure. By analyzing these modal parameters, engineers can gain insights into the vibrational behavior and resonance phenomena of the structure. Modal analysis is essential for optimizing the design of mechanical systems, identifying potential sources of vibration-induced failure, and ensuring the structural safety and performance of products.

Acquisitor offers advanced solutions for both impact testing and modal analysis. These tools enable engineers to conduct experiments, acquire data from sensors, perform data processing and analysis, and visualize results in a comprehensive manner. By leveraging Acquisitor, engineers can efficiently analyze the dynamic behavior of structures, leading to improved product performance, reliability, and efficiency.



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Located in the Liege Science Park, V2i is a recognized Belgian player since 2004 and specialized in the development of turnkey monitoring systems and vibrations tests & measurements solutions. To fulfil its objectives, V2i has an experienced team of more than 15 persons and modern facilities. The company has been growing continuously since its foundation and is active in major sectors of the industry (aeronautics, automotive, transport, civil engineering, etc).



FROM VIBRATIONS
TO IDENTIFICATION