ScanSet Features

OMS is the exclusive distributor in the United States for the VibroLaser ScanSet. The ScanSet is an innovative and cost-effective solution to convert any single point laser vibrometer into a complete scanning system.

Scanset Features

The ScanSet package includes a mirror set, camera, data acquisition module, software, quick release clamps to attach several brands of laser vibrometers, and easy-to-use translation stages to accurately position the vibrometer in relation to the scanning mirrors. The user-friendly software acquires high-quality video from the camera, and allows the user to precisely specify the areas to be scanned. The data acquisition module includes four input channels as well as an output channel that can be used to drive an excitation signal.

The system then automatically acquires the velocity data from each measurement point, and provides many methods to visualize the results, including Operation Deflection Shapes, FFTs, Frequency Response Functions, and many more. The data can also be exported for analysis with other software programs, or linked with the integrated optional modal analysis package.

ScanSet Specifications

The ScanSet package consists of two modules to convert any single point laser vibrometer into a scanning vibrometer. One contains the high precision laser scanning mirrors and the CCD camera. To ensure that the laser beam hits the mirrors in the proper location, the ScanSet offers linear slides to adjust the module and a clamp to lock the best position. The ScanSet is ideally suited to work with the OMS LaserPoint, but it can also be used with vibrometers from many other manufacturers. Please contact OMS for more details about laser vibrometer compatibility.
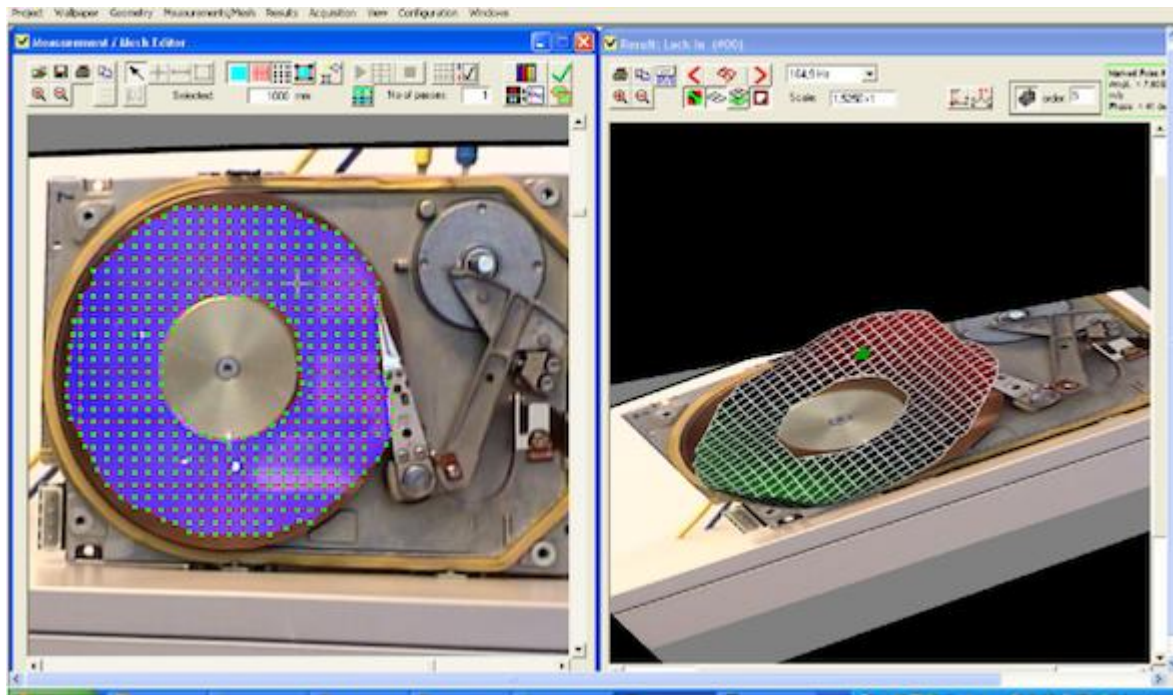
Scanset Specifications

The controller includes a four channel data acquisition module, a video frame grabber, and the drivers and power supplies for the system. The controller is connected to the ScanSet with a single cable. The controller also has a USB port to connect to a laptop or desktop computer, which is used to set up the acquisition and to view the results.

ScanSet Software

The measurement and analysis software operates under Windows 7, and includes all of the modules required for a complete scanning system, including:

- CCD Image Capture and Live Display

- Geometry and Measurement Point Editor

- FFT Analyzer and Signal Generator

- Mirror Control and Steering

- Operation Deflection Shapes (ODS)

- 3-D Animations and AVI export

- Export of Raw Time Records, FFT spectra, Geometries, and More

- Free Additional Offline Version for Post-Processing and Analysis

- Optional Modal Analysis Package

ScanSet Software