



## Noise & Vibration Analysis: SO Analyzer with New Software

m+p international's SO Analyzer is a dynamic data acquisition, analysis and reporting system with integrated analysis across a wide range of applications from structural testing to sound quality.

SO Analyzer 4.1 introduces new capabilities and enhancements to our software. For the demanding modal test requirements of the aircraft and space industries, Normal Mode Tuning ensures the most accurate estimate of the normal mode frequency and related damping values and is not limited by FFT resolution issues. The real-time user interface shows progress towards the optimum normal mode frequency indicated by the MIF display and real-time mode shape analysis and includes Nyquist and Bode plots as the final high-resolution stepped sine sweep is completed. The new Mode Shape Validation Wizard with Circle Fit Editor is the ideal accompaniment to normal mode tuning. In conjunction with the interactive mode shape animation it is perfectly suited for checking and optimizing each FRF measurement. The modern interactive multi-display implementation makes this traditional technique quick and easy to review and validate data across even high channel counts.

The new Sound Power wizard covers all functions available in the ISO 374x sound power standards with optional background noise corrections. The ECMA 74 standard provides a method of characterizing the audible significance of tones within a sound pressure measurement and is a useful addition to the Sound Power capability. Acoustic Time History Functions offer higher resolution down to < 1 ms increments for transient noise events.

Additional computation functions were added: FRF H1, H2 and Hv, normalized cross-correlation, normalized probability density, 1/x in chart calculator and integral in value table, m+p international's VibControl Averaged/Mean/Peak filters mimicked in sine reduction.

SO Analyzer 4.1 covers a wide range of National Instruments cards for data acquisition, strain and temperature measurements. The SO Analyzer software supports Windows 7 x86 and x64.

The new software revision contains many more upgrades that make the SO Analyzer even more powerful and user-friendly.

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