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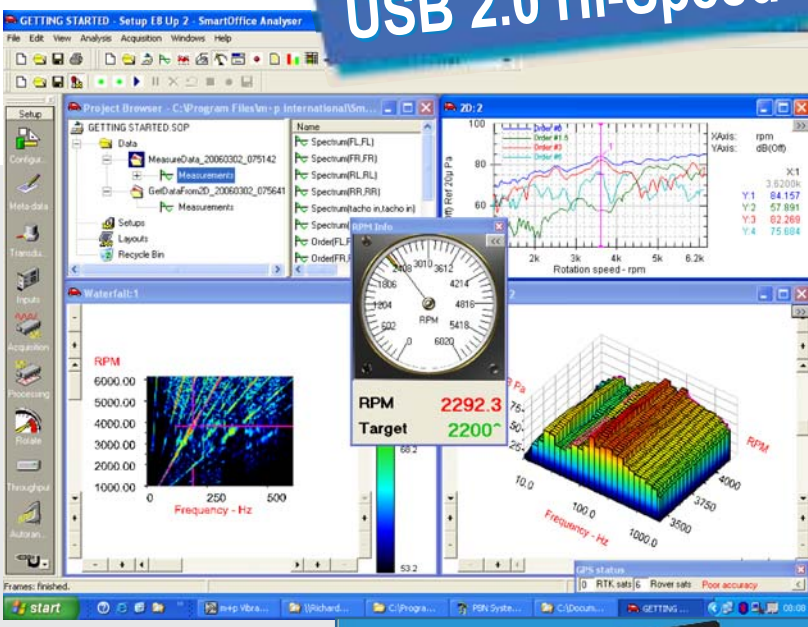
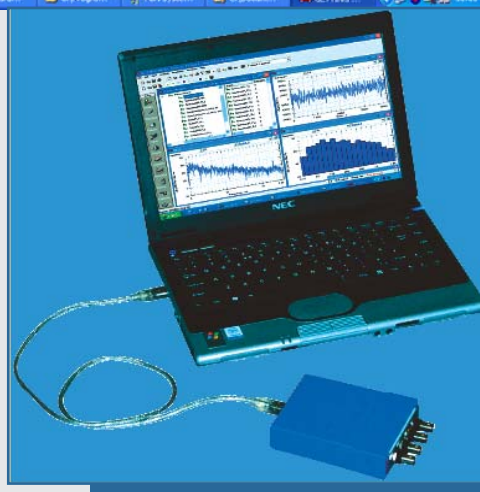
Professional Portable SO Analyzer



Equipped with a 24-bit four-channel USB powered dynamic acquisition module, the new SO Analyzer is the perfect engineering tool for portable noise and vibration applications. It provides highly accurate measurements from audio frequency IEPE (ICP) sensors and all the functionality you need for your daily test job at a surprisingly low price.



Thanks to its self-powered USB 2.0 hi-speed connectivity to a host PC or a laptop, the SO Analyzer is a compact real-time analyzer designed for professional applications in the field and in the laboratory. Measurements have never been so easy: Load the SO software, connect the USB cable between the acquisition module and the host PC/laptop and start your measurement using ICP sensors powered directly from the USB front-end. With 25 kHz bandwidth, 24-bit resolution and 102 dB dynamic range, the SO Analyzer offers very high precision and is perfectly suited for versatile N&V measurements and analyses.

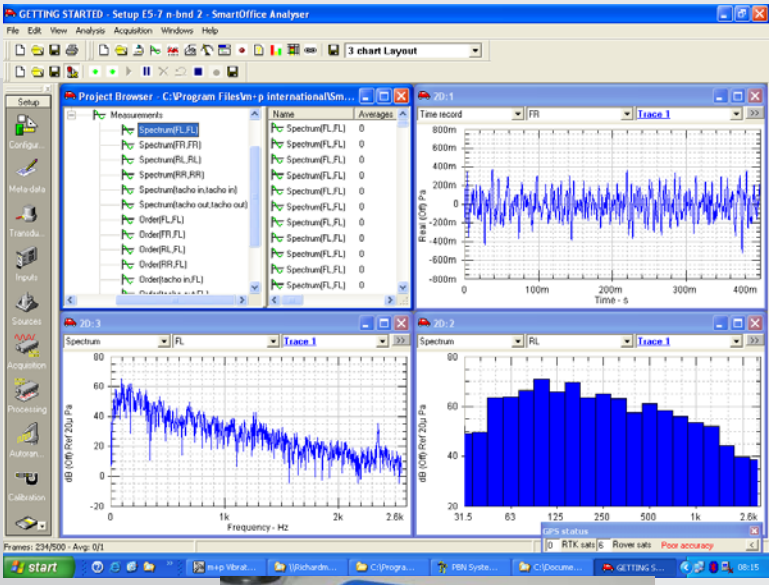
From within a single application, you do real-time data acquisition, analyze the results and create your reports. The MS Windows like user interface and the wizard-driven set-up of all measurement parameters ensure quick and safe operation, minimizing the probability of operator errors. The flexible real-time acquisition features user-selectable block sizes, sample rates, filtering, re-sampling and a wide range of time and frequency domain computed functions and averaging modes. Additional options are available for hammer impact capture linked to a geometry for ODS and modal analysis, rotating machinery analysis with tacho, real-time octave analysis, acoustic intensity analysis as well as throughput to disc recording. The power of the SO Analyzer even allows multiple capture modes to operate in parallel, e.g. do real-time spectrum analysis to the graphics display as well as recording (throughput) the raw data to disc for later post-processing.

The SO core e-Reporter is responsible for the central management of all data; it enables you to browse, view, rescale, analyze and organize the measurements. Within the same user interface advanced analysis options such as ODS, modal, rotating machinery and acoustics can be added without having to transfer data to another package. The reports can be generated either in bitmap format or with ActiveX graphics in which you have full control over the graphs within the Word document using the free SO Viewer software add-in for MS Office.

And if you use noise and vibration measurement systems of other manufacturers, you can benefit from the exceptional compatibility of the SO Analyzer: Options allow you to import data from more than 20 different standard N&V formats for common analysis.

The SO Analyzer is ideally suited for portable and stationary multi-channel noise and vibration measurements as well as for online and offline analysis in the time and frequency domain in the automotive, the aerospace, military and other industrial environments.

With the SO Analyzer, you can truly support your measurement, analysis and reporting needs both in the field and in the lab using one user interface at low cost and with excellent expandability. This means reduced training, improved productivity and 100% compatibility.



SO Analyzer USB Specifications

- 4 simultaneously sampled analog inputs (expandable to 32 channels using multiple USB modules), +/- 5 V input range
- USB 2.0 hi-speed
- 24-bit resolution
- 102 dB dynamic range
- ICP support (accelerometers and microphones)
- 50 kS/s maximum sampling rate
- Real-time data acquisition, analysis and reporting in one package
- Continuous or triggered measurements
- Online real-time FFT
- Online display of spectrum, PSD, FRF, etc.
- Online waterfall displays
- Microsoft Windows like user interface
- Intelligent wizards for easy and safe user guidance
- Automated ActiveX reporting to Microsoft Windows and PowerPoint

Options:

- Advanced reporting wizard for larger reports
- Advanced calculator and user programming (Visual Basic)
- Throughput to disc acquisition (time recorder), replacing conventional tape recorders
- Offline post-processing analysis (spectrum, PSD, FRF, etc.) of measured or imported data
- Modal analysis (ODS, SDOF, MDOF)
- Online and offline rotating machinery analysis with tacho inputs for order analysis, RPM spectral mapping, etc.
- Online and offline real-time octave analysis
- Acoustic intensity analysis
- Shock response analysis

Ordering information: SO-1904 SO Analyzer USB
Please refer to the SO product information sheets for options.

The SO Analyzer supports a wide range of hardware front-end options from 4 channels upwards using m+p international's VibPilot, VTI Instruments inc., NI PCI/PXI and others.

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