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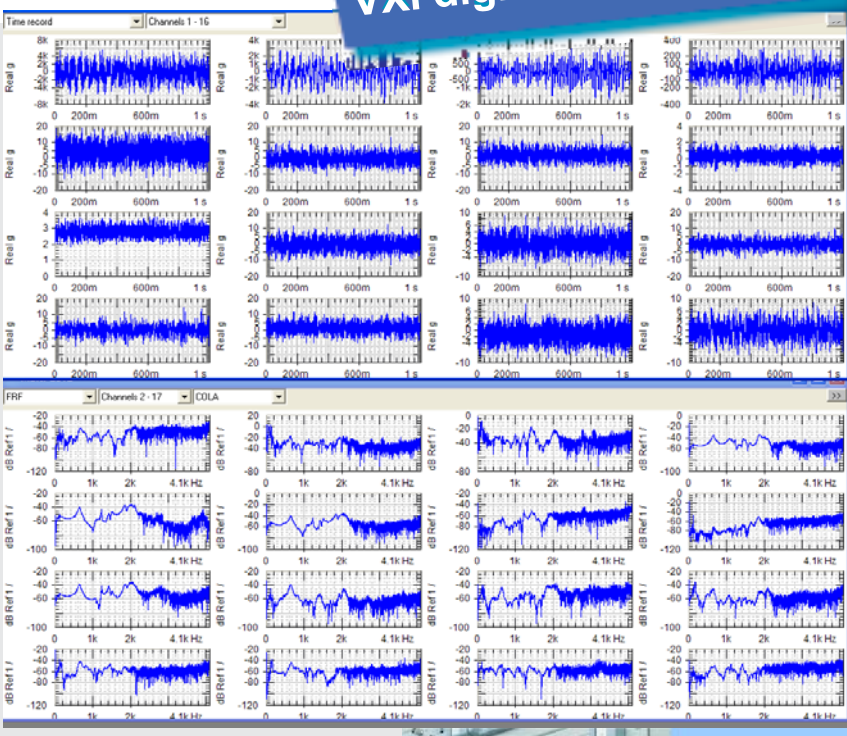
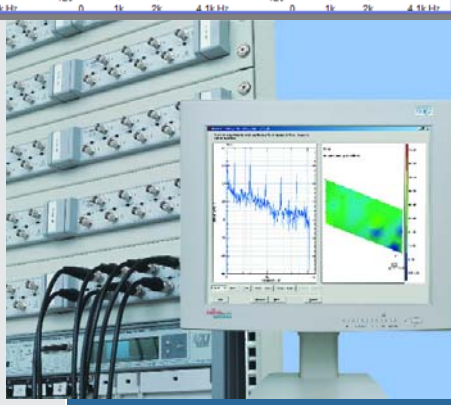
# High Channel-Count Real-Time Dynamic Analyzer

## SO Analyzer

VXI digitizers plus DSP



The SO Analyzer VXI is m+p international's dynamic signal analyzer for advanced needs in noise and vibration analysis when high-channel counts are required. No matter how many channels are connected, the SO Analyzer provides highly accurate cross channel measurements, gap-free throughput to disc recording and reliable online and offline analyses. The high-precision data acquisition hardware includes a mainframe, multiple 24-bit 16-channel VXI digitizers plus DSP and a FireWire or Gigabit network link from the PC to the VXI chassis.



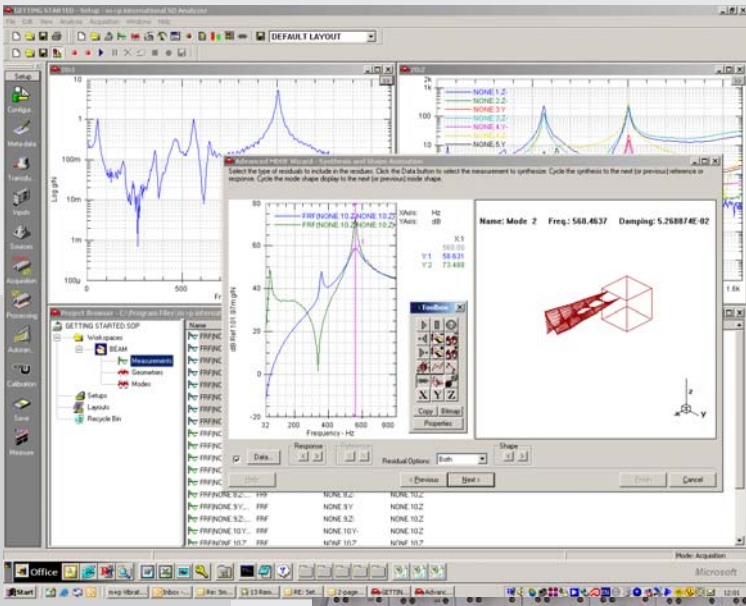
The flexible SO Analyzer architecture supports 4/6/13-slot mainframes housing three, five or twelve digitizers for up to 48, 80 or 192 input channels, respectively. Additional chassis can be daisy-chained for even higher channel configurations.

Being an open standard the VXI architecture is the ideal solution to ensure long-term support and system longevity. Existing VXI DSA systems that require a software performance upgrade as well as additional hardware for system expansion can easily be integrated into the SO Analyzer.
A range of VXI modules are supported for measurement requirements up to 625 kS/s per channel.

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.

With the Gigabit Ethernet interface you are free to install the front-end chassis remotely near your signal sources with the convenience of the PC remaining in your control room or office hence reducing cable costs, reducing measurement noise and maintaining real-time performance.

The SO Analyzer VXI is designed for high-channel count real-time data acquisition, analysis and reporting in the aerospace, defense, automotive and other industrial sectors.



**SO Analyzer VXI Specifications (eg using VT1432B digitizers)**

- 8/16 input channels per digitizer, breakout-box or front-panel coaxial connections
- 24-bit resolution
- 130 dBfs spurious free dynamic range
- 102.4 kS/s maximum sampling rate
- Analysis bandwidth to 46 kHz
- ICP source
- +/- 10 V output source
- Onboard multiple DSP per module
- IEEE-1394 FireWire or 1 Gigabit Ethernet PC link to VXI
- 4/6/13-slot VXI mainframe
- 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
- Offline post-processing analysis (spectrum, PSD, FRF, etc.) of measured or imported data
- Online and offline real-time octave analysis
- MS Windows like user interface, wizards
- e-Reporter incl. automating reporting, calculator and user programming (Visual Basic)
- Automated ActiveX reporting to Microsoft Windows and PowerPoint

**Options:**

- Throughput to disc acquisition (time recorder), replacing conventional tape recorders
- Modal analysis (ODS, SDOF, MDOF)
- Online and offline rotating machinery analysis with tacho inputs for order analysis, RPM spectral mapping etc.
- Acoustic intensity analysis
- Shock response analysis

Ordering information: SO-20xx SO Analyzer VXI
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 VXI Technology inc, NI PCI/PXI and others.

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