Novian

4~128 Channel
Noise And Vibration Analyzer



Features

Real-time analysis:
Conduct real-time measurements such as; multiple FFT's, Order Tracking, and Octave measurements with wide range of functionality and analysis capability.

Raw data recording:
Measure and record raw data to your hard disk continuously at the same time you perform real-time monitoring of time waveforms or spectrums.

Playback analysis:
Replay the previously saved raw data file(s) as if it were a live reading. Now you can recreate the event as if you were on-site and perform playback analysis of the saved data file.

Data viewing, processing and report:
- Add or import data files for data viewing, analysis and playback
- Work with multiple channels on a single graph, or separate channels as needed.
- Perform post processing; FFT, IFT, integration, differentiation, weighting functions, filters and more.
- Generate reports directly with Microsoft Word.
- Work with multiple cursor types: dual, side-band, harmonic, peak and multiple single cursors.
- Export data files to XML, CSV, UFF, ASCII or WAV file formats.

Function generator:
Use Novian's built in function generator to create various signals like sine waves, square waves, ramp, pulse, random or chirp signals. These signals created by the function generator can be used through the output devices.

Easy and ready to use:
Novian's menu structure is straightforward to use and does not have scripts or require graphical programming. Simply put, Novian's easy to use menu structure provides the user with understandable functionality with built-in flexibility for your advanced analysis needs.

Extremely high speed performance:
Novian software is programmed in C++, and optimized to run on computers with Intel multi- core processors at a very high rate of speed.

Advanced features and powerful capability:
Novian supports multiple analysis mode which allows you to run different analysis programs at the same time such as multiple FFT and Octave analysis for example.

Specification

Specification	Novian S04	Novian D08 ~ D128
Channels	4 analog input channels (BNC connector)	8~128 analog input channels and 2 analog output channels (BNC connector)
Tacho input channel	1 channel (6 pin LEMO connector)	1 channel (6 pin LEMO connector)
Input range	±5 V / ±20 V	±1 V / ±10 V
Maximum output level	-	±10 V (peak)
Maximum sampling rate	102.4 kS/s	102.4 kS/s
Type of AD converter	24 bits Delta-sigma AD converters	24 bits Delta-sigma AD converters
Input coupling	AC/DC/IEPE	AC/DC/IEPE
IEPE power	3.0 mA	4.0 mA
Power supply	USB Power	5V to 24VDC
DAQ Interface	USB 2.0	USB 2.0

Software function

FFT module
Functions for FFT analysis : Time waveform, auto power spectrum,complex spectrum, cross power spectrum, FRF, coherence cepstrum, power spectra density, envelope spectrum, envelope waveform, overall level, Mean trend and Rate trend, rotation speed.
Multiple analyses : Run up to 3 real-time FFT measurements at the same time. The parameters of each measurement can be set independently.
For other module functions, please see the complete catalog...

Order Tracking module
Functions for Order Tracking analysis : order trace, order spectrum, spectral map, orbit, filtered orbit, orbit and waveform, shaft centerline, DC gap and RPM profile.
Order resolution : 1/2 order, 1/4 order, 1/8 order or 1/16 order
For other module functions, please see the complete catalog...

Octave module
Functions for Octave : Octave spectrum and spectrum map.
Conforming standard : IEC 61260 & IEC 61672
Built-in filters : A, C, ISO 6954, ISO 8041, ISO 22867 and ISO 20643
For other module functions, please see the complete catalog...

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