VibWorks ANALYZER

MAKE A DIFFERENCE

Designed for Expertise Jobs, VibWorks ANALYZER comes in 4, 8, 16, or 32 channels, with less machine shutdowns.

Multichannel functions will provide a better understanding of your machines' dynamic behavior, deflection modes can be deducted using cross channel phase analysis. Orbits can be obtained from all kinds of sensors (proximity probes, accelerometers...).

REAL TIME ANALYZER

Perform simultaneous Frequency Response functions on up to 32 channels, coherence calculation and properly averaged FRF's. Export Data to Universal Files, Excel, Matlab...Analyze FRF in bode Diagram, Nyquist Diagram, Real and Imaginary diagram. 100% Me'scope compatible.

IMPACT TESTING

Load Run-up or Coast Down Signal and the Analyzer will guide you to obtain speed profile with special algorithms applied on trigger signal. Extract Time Waveform for specific or multiple orders, analyze and save the extracted Data..

ORDER ANALYSIS EXTRACTION

Multichannel Data Logger, customizable by channel to take Long Time data readings with iterative specific delay. The system acts as a temporary online system.

PROGRAMMABLE DATA LOGGER

A.R.M.A

Auto Regressive Moving Averages is an advanced signal processing technique used to perform Frequency Response Functions (FRF) without an impact hammer. Unlike simple FFT function, this method does not simply point out potential natural frequencies, but goes further by decomposing all the components of the transfer function, including stability coefficients, leading to a cleaner FRF, and more importantly, providing values of Natural frequencies AND correspondent damping ratio.
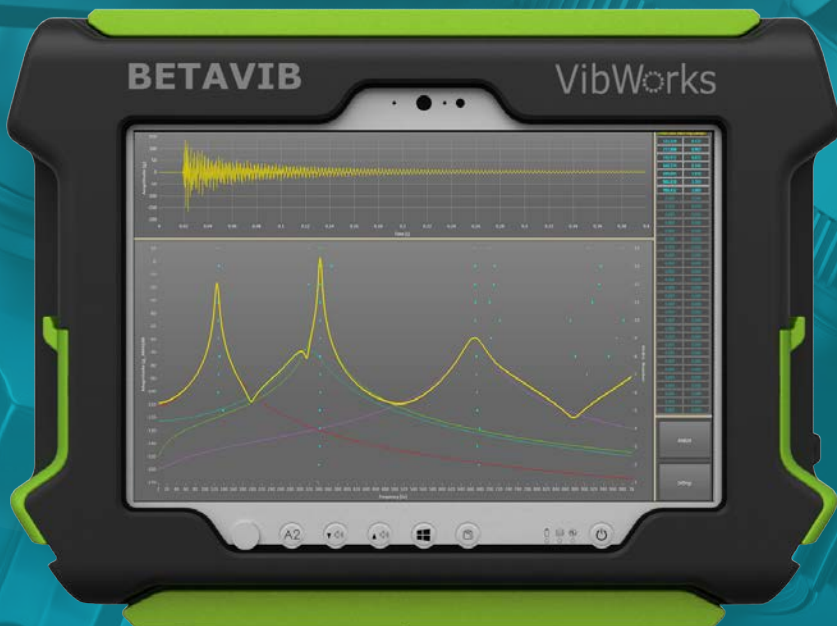
APPLICATIONS

- VibWorks Multi-channel analyzer is the perfect example to emphasize how BETAVIB's vision is reflected on our solutions interfaces: interaction is clean and simple while providing more power on demand whenever it's needed.

- VibWorks is able to detect the slightest changes in the vibration signature of your machines, but sometimes you may require multichannel functions to analyze more in-depth dynamic behavior, like Cross Phase analysis and deduce the operational deflection shapes; FRF with or without a hammer and Run up-Coast down algorithms in order to get the natural frequencies and the damping ratios, or even a quick acceptance test to generate a vibration report.

- VibWorks Multi-channel analyzer also comes with an amazing channel count spreading from 4 channels (standard) up to 32 Channels. Your imagination is the only limitation when it comes to its Scope of application since it's built to accommodate a wide variety of sensors (Accelerometers, Impact Hammers, current clamps, Tachometers, Voltage, 4-20mA sensors, microphones…).

OPTIMAL EXPERTISE JOBS

VibWorks ANALYZER provides you with all the needed expertise tools and scalable according to your needs. The product is fully compatible with BETAVIB SUITE Hardware.

ADVANCED SIGNAL PROCESSING

All the tools required to investigate structural dynamic behavior are embedded within VibWorks ANALYZER as well as Long-time data Logger for post-processing.

ANALYSIS FEATURES

SPECTRAL PHASE ANALYSIS	RUN UP COAST DOWN	ORBIT PLOT
MULTICHAN-NEL IMPACT TESTING		QUICK ACCEPTANCE REPORTS

EMBEDDED ISO STANDARD

☑ Tachometer processing speed profile
☑ Overall levels combined with bandpass Filter

ALL THE NEEDED TOOLS
We made sure to include multiple features required for the investigation of structural dynamics

AUTO REGRESSIVE MOVING AVERAGES

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Keep it running.