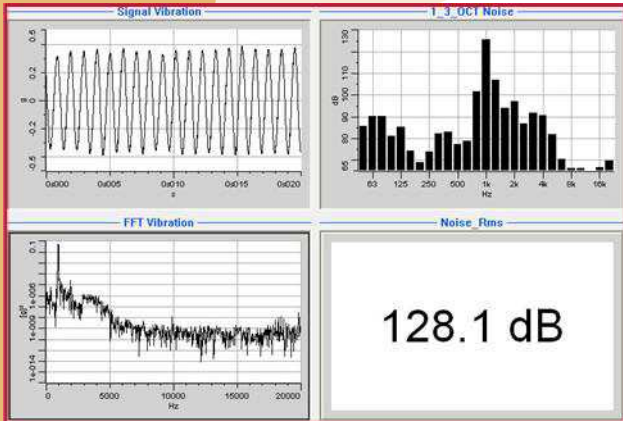


Product Data

The Power of Professional Software



dBFA Suite and a PC embedded sound card just let **PRO-115** transform your computer in an easy to use Sound & Vibration analyzer!

- Parallel Real time processing and recording
- Applications oriented processing tools
- Automated functions for time and cost saving
- Data Import/Export capabilities

It really makes your life easier...!



PRO-115

Key Features...

A full range of Applications in:

- Automotive
- Aeronautics
- Railway
- Mechanics
- Materials
- Construction Machines
- Building industry
- Electric appliances/IT
- Household appliances
- Telecommunications

A complete set of Recording and Analysis tools, including data management and reporting

- ▶ Simultaneous real-time multi-analysis as:
 - ▶ Averaged and multi-spectra with FFT and 1/1 down to 1/48 octave
 - ▶ Cross-spectra,
 - ▶ Statistics...
- ▶ Advanced software package for:
 - ▶ Frequency Response Functions,
 - ▶ Order analysis (option),
 - ▶ Transient & Impact Testing analysis with an enhanced path management for modal analysis (option)
- ▶ Set of application oriented post-processing functions with analysis scripts
- ▶ Transducers Database management: Sensors, calibrators, calibration history,...
- ▶ Data Import: UFF58, Wave, nCODE, Matlab™, SONY, TEAC (Digital format)
- ▶ Data Export: ASCII, Wave, MeScope™, Matlab™, mp3, Lexade, SDF...,
- ▶ Powerful bi-directional link to Matlab™ and compatibility with Office software
- ▶ Automatic reporting capabilities from real-time and post-processing modules

Options

- ▶ RPM recording and Order analysis
- ▶ Sound Imaging and Mapping
- ▶ Sound Quality and Sound Perception

PRO-115 Technical Specifications

Features	PRO-115
Main setup parameters Hardware management & configuration: Transducers and Calibrators: Calibration validity management:	<ul style="list-style-type: none"> See supported platforms in dBFA Suite main panel Database management – transducers sensitivity monitoring – calibration validity management Calibration check – Manual & Automatic range adjustment
Digital Recording Signal & RPM recording:	<ul style="list-style-type: none"> Direct-to-disk (PC) (see supported platforms) Any channel can serve as a Tacho channel Digital Recording and Frequency/Level Monitoring done simultaneously (Frequency Monitoring (FFT: 1024 lines, 1/3 octave, RMS), Level Meter (RMS))
Real Time processing features Triggers: Real time Processing functions: Real time Display:	<ul style="list-style-type: none"> Unlimited triggers (and/or) combinations Trigger on Time, on Level, on Threshold, on Tolerance curves. All for Start/Stop conditions Statistics - RMS, RMS in band, Leq, Min, Max, Peak, P-P, Average, Disparity, Skew, Kurtosis Statistics vs. time – idem as above Narrow Band Analysis up to 12,800 lines (from 0Hz to Max Bandwidth and zoom) Broad Band Analysis up to 1/48th (from 0,01Hz to Max Bandwidth) Average FFT, Average Cross Spectrum, Average 1/n analysis Cross vs. Time, Octave vs. Time, FFT vs. time Bode (2D Diagram - Amplitude and Phase), Text, Sonogram (color map), Bar Graph
Post Processing features Measurements database Import Data Export Computing Time domain: Filtering: Weighting: Amplitude gain adjusting: Windowing: Statistics: Frequency Analysis: Display Units Automation	<ul style="list-style-type: none"> Complete measurement session in a database, Multiple databases management, Multiple selection on database items, Add Comment on Displays, Copy/Paste Picture or Data to MS office .wav; .mp3; .uff; .dac (Nsoft); .hdr (Teac); .log (Sony); Lexade .wav; .txt; .mp3; .uff; .m (MatLab); .blk (Me-Scope); Lexade Time Selection, Playback, Resampling, Decimation, Offset compensation, Arithmetic Operations on signals Digital Filtering Low pass, High Pass, Band-pass, Band-cut, notch, A, B and C acoustic weightings, Human Vibration frequency weightings Denosing, Convolution (Post Processing on audio signals) Manual Gain, Automatic Optimized Gain Rectangular, Hanning, Hamming, Blackman-Harris, Kaiser-Bessel, Flat-top, Triangle, Exponential, Zero, Hole Statistics - RMS, RMS in band, Leq, Min, Max, Peak, P-P, Average, Disparity, Skew, Kurtosis Statistics vs. time – idem as above FFT (up to 12,800 Lines), 1/n (up to 1/48th Oct.), Auto and Cross Autocorrelation, Echogram, Cross Spectrum, Transfer Functions (Inverse and Direct FRF), Coherence, Overall Level Time-Frequency, Operation on spectra... Bode (2D- Diagram), Sonogram view, Lissajou, Waterfall, Simple cursor, Double, Harmonics, Sidebands Cursors, Energy calculation between 2 cursors and user-defined bandwidth, Automatic Peak(s) Search, Nichols/Nyquist RMS, PWR, PSD, ASD, ESD Matlab communicator processing Shortcuts, Batch Analysis
Software Options Real Time Impact testing Module: Order Analysis: RT Automation Sequencer: Reporting Post-processing Order Analysis:	<ul style="list-style-type: none"> FRF, Coherence, Path management, user-defined time signals windowing,... Order vs. Tacho, Cross vs. Tacho, Octave vs. Tacho, FFT vs. Tacho, Pulse vs. Time to RPM vs. Time Order Analysis with Resampling Method, Order vs. Tacho with fixed sampling frequency DF method, Dn method Cross vs. Tacho, Octave vs. Tacho, FFT vs. Tacho Sequenced measurements (Recorder or Analyzer configurations (*.ana, *.rec) chaining Automatic report generation after Analysis or Post Processing Calculations capabilities idem as real time

Ordering Information:

SFA4003000: dBFA Software Suite: Recorder-Analyzer-Post Processing (2Ch only)

Supported Optional Hardware Platforms:

NetdB-DAQ 4, 6, 8, 12, ..., 32+ channels, Orchestra 4 up to 72 channels, 2ch Symphonie, 4ch NI 9233

1 ne presented characteristics are subject to change without notice. kev:13/2007

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