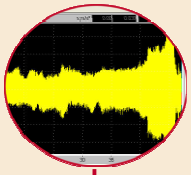
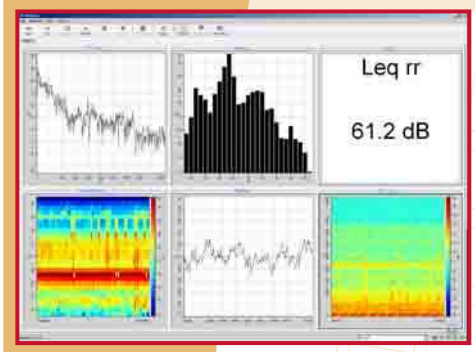
NetdB™ Pro Series

Product Data

PRO-122: 24 channel Real Time Analyzer



Sound and Vibration Analysis



NetdB PRO-122 meets your requirements for the everyday use of an efficient S&V analyzer!

Indeed this complete package composed of a double NetdB-DAQ12 platform with the full-featured versatile dBFA Pro software suite is the perfect way for performing any NVH work in a most demanding and operational conditions with an increased flexibility:

- It's a Recorder
- It's a Sound and Vibration Analyzer
- It's a Troubleshooter
- It really makes your life easier

At an incredible price to performance ratio!

Full featured!

PRO-122

Key Features...

NetdB-DAQ12 Hardware Platform

- 2xNetdB-DAQ12 Front-end managing 12 channels, 24 bits, DC to 20 kHz
- AC/DC/IEPE instrumented inputs
- 2 generators, headphones and SPDIF outputs
- Patented Ethernet protocol, WiFi ready
- 100GB hard disk internal HD.
- Batteries operated

dBFA suite PRO software main features

- Recorder - Analyzer - Post-Processing
- Simultaneous signal recording and real-time multiprocessing and monitoring
- Average 1/n octave, 1/n octave vs. time
- A, B, C, Wb, and more than 20 standard weighting functions
- Average FFT, FFT vs. Time
- FRF calculation on spectra and signals
- Color spectrogram and Waterfall
- Tacho signal acquisition
- Signal edition
- Import of .wav files, Teac/Sony files, MatLab communication
- Sound Quality metrics and Criteria

Options

- Expandable to 36, 48, ... up to more than 1000 channels
- Order analysis, Time-Frequency, Impact testing, Sound Intensity
- Suitable for Acoustic Holography and Modal Analysis
- Complete set of transducers and accessories

Applications:
Sound and Vibration measurements, analysis and reporting

Improving products design vs. NVH characteristics

NVH analysis on transportation vehicles:
automobiles, motorbikes, trains, ships, aircrafts, ...

Civil vibration on transportation infrastructure

Quality control

01dB-Metravib
www.01db-metravib.com

AREVA

PRO-122 Technical Specifications

Features	PRO-122	Features	PRO-122
Hardware NetdB-DAQ12		**Environmental**	
PC Link (Type/seed):	Ethernet 100MBits connector RJ45 and 2 x USB II sockets (Rear panel)	Operating temperature:	0°C to 60°C
PDA Link (Type/seed):	WiFi 802.11g 54Mbits for remote control	Storage temperature/humidity/Pressure:	-10 to 50°C, 10 - 90% RH (no condensation), 500 - 1060 hPa
Storage:	100 GB HDD (12 hours /continuous measurement with 12 channels @51.2kHz 24bit)	Operating position:	Horizontal and Vertical
Base channel numbers:	12 (2 units are provided!)	Vibration resistance:	10ms-2 (9-200Hz), 3mm (2-9Hz) operating
Maximum throughput rate:	12-channel units can be chained Up to 51.2kHz 24bit on each channel of any NetdB-DAQ12 unit	Shock resistance:	250ms-2 (2ms) operating
Channel input connectors:	BNC with high rigidity frame	Vibration class:	EN60721-3-4 class 4M5
Signal output:	2 x BNC connectors	Noise emission:	LWA 49dBA with fan running, LWA 33dBA fan off, software selectable (ISO7779)
Digital Input/Output:	RCA connector for SPDIF In/Out	EMI:	EN55011, EN55014, EN61000-4.2, EN61000-4.3, EN61000-4.4, EN61000-4.5, EN61000-4.6, EN61000-4.11
Digitization:	24 bits linear	Safety:	UL3101-1; CSA C22.2 No.1010.1; EN 61010-1 A1+A2
Sampling Frequency:	51.2kHz, 25.6kHz, 12.8kHz, 400Hz		
Analog input Characteristics		**Physical**	
Input impedance:	1MOhms	Dimensions:	250mm(W) x 85mm(H) x 263mm(D) excluding projections
Input range:	10V rms (-15V to +15V), 1V rms (-1.5V to +1.5V), 100mV rms (-150mV to +150mV)	Weight:	3.5kg
Maximum allowable voltage:	-20/+30V peak	**Power supply**	
Sensor power supply:	IEPE and TEDS (IEEE1451.4) compliant	Battery:	Internal NiMH 4000mAH, 1H45 continuous operation 12 channels
Anti-aliasing low-pass filter cut:	DC, AC 0.3 Hz, AC 20 Hz	Main adaptor:	External Main Adaptor 100/240VAC - 50-60 Hz
Dynamic range:	105dB	Power consumption:	20W
External trigger:	BNC connector	Car adaptor supplied:	DC 9-18V with jack

Features	PRO-122
Software dBFA Suite (Recorder - Analyzer - Post-Processing):	Simultaneous signal recording and real-time multiprocessing and monitoring, post processing analysis (Average 1/n octave, 1/n octave vs. time, Average FFT, FFT vs. Time, FRF...) Calculation on spectra and signals, Color spectrogram and waterfall, Tacho acquisition, Signal edition, Import of Teac/Sony files... Reporting Module. Analyzer and post-processing option
Software options (included in PRO-122A):	RT Automation (User-defined sequential acquisition procedure); Transient / Impact mode: Coordinates management, user defined windowing, Me' scope format export, Reporting Module both in Analyzer and post-processing; MATLAB communicator in Post-processing Order (Analysis and Tracking in Real Time and post-processing) Time-Frequency Transforms, De-noising, Convolution (Post Processing on signals)

Ordering Information:
NDB1002000 (x2): NetdB-DAQ12 data acquisition front-end, AC/DC/IEPE inputs, headphones and SPDIF outputs, Patented Ethernet protocol, 100GB hard disk.
SFA4050000: Software dBFA Recorder - Analyzer - Post-Processing: simultaneous signal recording and real-time multiprocessing and monitoring, post processing analysis (Average 1/n octave, 1/n octave vs. time, Average FFT, FFT vs. Time, FRF...), calculation on spectra and signals, color spectrogram and waterfall, tacho acquisition, signal edition, import of Teac/Sony files....
Options (included in PRO-122A):
SFA4060000: RT Automation
SFA4061000: Transient / Impact mode
SFA4022000: MATLAB communicator
SFA4044000: Order Analysis and Tracking
SFA4038000: Time-Frequency Transforms, Denoising, Convolution... Data format: CMG documented, UFF, MatLab, WAV, ASCII.

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