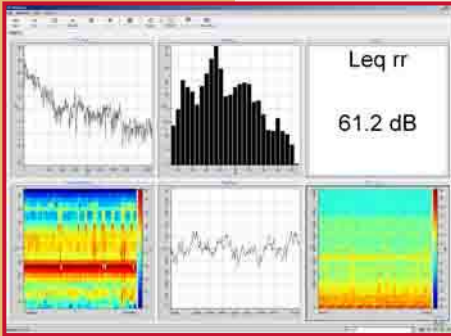


### Sound and Vibration Analysis



**NetdB PRO-120** meets your requirements for the everyday use of an efficient S&V analyzer!

Indeed this starter package composed of a NetdB-DAQ12-4ch with the versatile dBFA Pro software suite is the perfect way for starting your NVH work in a most operational and flexible conditions:

- 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!



**Special Entry Price!!**

### PRO-120

#### Key Features...

##### NetdB-DAQ12 Hardware Platform

- ▶ NetdB-DAQ12 Front-end limited to 4 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 6, 8, 12, 32 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

# PRO-120 Technical Specifications

Features	PRO-120	Features	PRO-120
<b>Hardware NetdB-DAQ12</b> PC Link (Type/seed): PDA Link (Type/seed): Storage: Base channel numbers: Maximum throughput rate: Channel input connectors: Signal output: Digital Input/Output: Digitization: Sampling Frequency:	<ul style="list-style-type: none"> <li>▶ Ethernet 100Mbits connector RJ45 and 2 x USB II sockets (Rear panel)</li> <li>▶ WiFi 802.11g 54Mbits for remote control</li> <li>▶ 100 GB HDD (12 hours /continuous measurement with 12 channels @51.2kHz 24bit)</li> <li>▶ 4, 6, 8, 10, 12</li> <li>▶ 12-channel units can be chained Up to 51.2kHz 24bit on each channel of any NetdB-DAQ12 unit</li> <li>▶ BNC with high rigidity frame</li> <li>▶ 2 x BNC connectors</li> <li>▶ RCA connector for SPDIF In/Out</li> <li>▶ 24 bits linear</li> <li>▶ 51.2kHz, 25.6kHz, 12.8kHz, 400Hz</li> </ul>	<b>Environmental</b> Operating temperature: Storage temperature/humidity/Pressure: Operating position: Vibration resistance: Shock resistance: Vibration class: Noise emission: EMI: Safety:	<ul style="list-style-type: none"> <li>▶ 0°C to 60°C</li> <li>▶ -10 to 50°C, 10 - 90% RH (no condensation), 500 - 1060 hPa</li> <li>▶ Horizontal and Vertical</li> <li>▶ 10ms-2 (9-200Hz), 3mm (2-9Hz) operating</li> <li>▶ 250ms-2 (2ms) operating</li> <li>▶ EN60721-3-4 class 4M5</li> <li>▶ LWA 49dBA with fan running, LWA 33dBA fan off, software selectable (ISO7779)</li> <li>▶ EN55011, EN55014, EN61000-4.2, EN61000-4.3, EN61000-4.4, EN61000-4.5, EN61000-4.6, EN61000-4.11</li> <li>▶ UL3101-1; CSA C22.2 No.1010.1; EN 61010-1 A1+A2</li> </ul>
<b>Analog input Characteristics</b> Input impedance: Input range: Maximum allowable voltage: Sensor power supply: Anti-aliasing low-pass filter cut: Dynamic range: External trigger:	<ul style="list-style-type: none"> <li>▶ 1MOhms</li> <li>▶ 10V rms (-15V to +15V), 1V rms (-1.5V to +1.5V), 100mV rms (-150mV to +150mV)</li> <li>▶ -20/+30V peak</li> <li>▶ IEPE and TEDS (IEEE1451.4) compliant</li> <li>▶ DC, AC 0.3 Hz, AC 20 Hz</li> <li>▶ 105dB</li> <li>▶ BNC connector</li> </ul>	<b>Physical</b> Dimensions: Weight: <b>Power supply</b> Battery: Main adaptor: Power consumption: Car adaptor supplied:	<ul style="list-style-type: none"> <li>▶ 250mm(W) x 85mm(H) x 263mm(D) excluding projections</li> <li>▶ 3.5kg</li> <li>▶ Internal NiMH 4000mAh, 1H45 continuous operation 12 channels</li> <li>▶ External Main Adaptor 100/240VAC - 50-60 Hz</li> <li>▶ 20W</li> <li>▶ DC 9-18V with jack</li> </ul>

Features	PRO-120
<b>Software dBFA Suite (Recorder - Analyzer - Post-Processing):</b>	<ul style="list-style-type: none"> <li>▶ 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...)</li> <li>▶ Calculation on spectra and signals,</li> <li>▶ Color spectrogram and waterfall,</li> <li>▶ Tacho acquisition,</li> <li>▶ Signal edition,</li> <li>▶ Import of Teac/Sony files...</li> <li>▶ Reporting Module. Analyzer and post-processing option</li> </ul>
<b>Software options (included in PRO-120A):</b>	<ul style="list-style-type: none"> <li>▶ RT Automation (User-defined sequential acquisition procedure);</li> <li>▶ 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</li> <li>▶ Order (Analysis and Tracking in Real Time and post-processing)</li> <li>▶ Time-Frequency Transforms, De-noising, Convolution (Post Processing on signals)</li> </ul>

**Ordering Information:**  
 NDB1002000-4: NetdB-DAQ12 data acquisition front-end restricted to 4 channels, 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-120A):**  
 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.

The presented characteristics are subject to change without notice. Rev:03/2007

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