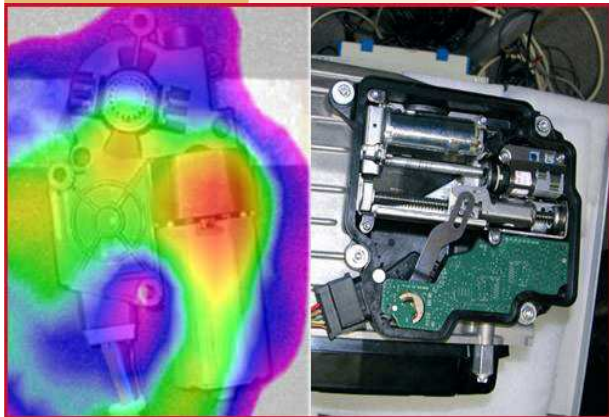


Track the noise with images!



The power of Nearfield Acoustical Holography (NAH) in this starter package providing you with the minimum set of tools for tracking your first noise images!

NetdB PRO-330 based on a **6ch expandable** data acquisition platform is an ideal system for small to medium size objects, offering:

- **Best accuracy** in noise Source localization
- Holography, Intensity and partial power processing functions
- **Source quantification** through immediate radiated power evaluation (global & partial)
- Expandability to **capturing the real test situation** (RELAX technology)

PRO-330

Key Features...



A wide range of applications!

Automotive
Aeronautics
Railway
Ships
Motorbikes
Components Manufacturers
Construction Machines
Mechanics
Materials
Electric appliances/IT
Household appliances

Portable and Expandable

- ▶ 6ch NetdB-DAQ front-end easily expandable to 12 channels or more
- ▶ Built-in batteries – up to 1.45 hour autonomy (*12 channels full speed*)
- ▶ Compact user-friendly 6-microphones hand-held array
- ▶ Remote control unit possibly acting as an array holder
- ▶ Separate array holding device (mechanical frame with fixed spacing marks)

Diagnosis, comparison, optimization...cost effective

- ▶ Accurate Source localization and ranking on any tested equipment
- ▶ 2D map visualization on top of numerical pictures of test object for easier exchanges with design office and project management
- ▶ Perfect tool for benchmarking competing solutions
- ▶ Data import/export to Matlab™ offering extended processing capabilities
- ▶ Fully automated test procedures relying on robotized instrumentation for increasing added value time, dedicated to analyzing processed data and developing your most competitive solution (*optional*)

Options (dBVision software suite)

- ▶ Extended simulation capabilities for radiated noise estimation
- ▶ Diffused measurement mesh processing (RELAX technology)
- ▶ Patented IPS coupled to remotely driven DAQ system for reducing time & test facility costs
- ▶ Robot driven operations (hardware/software components)

PRO-330 Technical Specifications

Features	PRO-330
Acoustic Array Number of microphones: Microphone spacing: Total weight: Handle/Remote control unit: Connectors:	<ul style="list-style-type: none"> ▶ 6 (expandable to 12) ▶ 5 cm (possibility of overlapping measurements to increase the mesh density) ▶ 350 g ▶ Start/stop commands integrated, hinged system for a better accessibility to confined regions ▶ 6 BNC connected to the NetdB, serial port connected to the computer for the remote control
Microphones Diameter: Output connector: Length: Weight: Sensitivity at 250 Hz: Dynamic range: Frequency response: Output impedance: Phase Match: Temperature Range: Power supply:	<ul style="list-style-type: none"> ▶ ¼ inch ▶ SMB coaxial socket ▶ 60.0 mm ▶ 5.5 g ▶ 8 mV/Pa (nominal) ▶ Lower limit < 30 dBA re. 20µPa ▶ Upper limit 138 dB re. 20µPa ▶ 100 Hz - 3 kHz ± 1dB ▶ 3 kHz - 10 kHz ± 2dB ▶ < 50 Ohm ▶ 100 Hz - 3 kHz: ± 3° ▶ 3 kHz - 5 kHz: ± 5° ▶ -10 °C to +50 °C ▶ 2 mA to 20 mA (typically 4 mA)
NetdB 12 channels Dimensions: Weight: Input channels: Digitization: Sampling frequency: Ranges: SNR: Data storage: Output channels: Phones: Digital Input/Output: Power: Voltage: Max current: Battery life: Adapter:	<ul style="list-style-type: none"> ▶ 250mm(W) x 85mm(H) x 263mm(D) excluding projections ▶ 4.5 kg ▶ 12 dynamic channels with IEPE power supply ▶ 24 bits ▶ 51.2kHz, 25.6kHz, 12.8kHz ▶ - 20 dB: 14.1 V peak or 10 V RMS ▶ - 0 dB: 1.41 V peak or 1 V RMS ▶ - +20 dB : 141 mV peak or 100 mV RMS ▶ > - 105 dB RMS of the full scale ▶ 100 GB HDD (12 hours of continuous measurement @ 12 channels 51.2KHz 24bit) ▶ 2 x BNC connectors ▶ Jack connector - Stereo output for Headphones ▶ RCA connector for SPDIF In/Out digital audio ▶ 20 W ▶ 12 to 14 VDC ▶ 3.5 A ▶ CPR3013000 ▶ 2 hours as a stand alone solution ▶ AC 110 V / 250 V
Software for Recording/Analysis dBVision-PRO software package: Source Ranking module:	<ul style="list-style-type: none"> ▶ Planar or Cylindrical holography (up to customer's choice), ▶ Intensity maps ▶ Reporting Module ▶ Data import/export to Matlab™ ▶ 3D View graphics capabilities/photo-image superimposition ▶ Global Power computation ▶ Partial power computations and Source ranking according to selected zones (patch definition)
Software Options dBVision TL: dBVision FAR: dBVision EARPREDICT: dBVision RELAX: dBVISION IPS:	<ul style="list-style-type: none"> ▶ Transmission Loss computations possibly using selected zones definition (patch definition) ▶ Far-field predictions capabilities, radiations patterns (directivity, polar diagrams, ...) ▶ CABIN Noise level predictions at arbitrary location inside an enclosure ▶ Automatic projection of measurement data onto regular grids from arbitrary antenna locations ▶ Data acquisition/management with Instrumentation Positioning System of dBVision

Ordering Information:

DBV1005000: 6mics measurement Array (1/4" size) - includes support frame (line 30cm) + 4m cables + packaging BASIC compact
 DBV1003000: Remote Control Unit - Full compatibility with DBV1005000. Includes a 4m cable link to the PC controller (packed with Array)
 CMI3001000: 40AE 1/2" Condenser Microphone Electret. 50mV/Pa – to be used as a reference microphone
 CPR3013000: 26CA 1/2" Coax Preamplifier (ICP® compatible)
 CPC3014000: 10m BNC-BNC Cable
 CAL3009000: Calibrator CAL21, type 1, 94dB, 1000 Hz, PTB approved
 NDB1002000: NetdB-DAQ12 12ch DAQ front-end, AC/DC/IEPE inputs, headphones and SPDIF outputs, Patented Ethernet protocol, 100GB HDD
 SFA2001000: dBVISION PRO: Planar or Cylindrical holography (up to customer's choice), Intensity maps, Reporting Module, Data import/export to Matlab, 3D View graphics capabilities, Global Power computation
 DBV2006000: Partial power computation, Source ranking according to selected zones
 DBV2026000: Mechanical frame to suspend the array

The presented characteristics are subject to change without notice. Rev:04/2007

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