

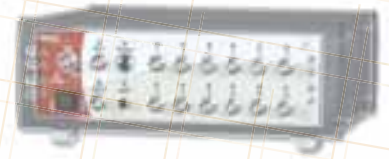
dBVision

Key Benefits...

- Needing the accuracy of acoustical holography for eradicating sound sources? **dBVISION** provides you with the power of Nearfield Acoustical Holography (NAH) for:
- **Best accuracy** in noise Source localization
 - Most operational process for **capturing the real test situation** (RELAX technology)
 - **Unique patented IPS technology** for CABIN noise processing
 - **Source quantification** through immediate radiated power evaluation (global & partial)

dBVision

Key Features...



A wide range of solutions fitting general and specific customers requirements complying with dimension of the tested structure and application fields:

- ▶ **dBVision CABIN** (inside vehicle, cockpits)
- ▶ **dBVision MARINE** (signature of naval vessels and submarines)
- ▶ **dBVision ENGINE** (on running engine in test bench situations)
- ▶ **dBVision COMPONENT** (exterior measurement of test products and components)

With a combined approach (exterior/interior measurements), dBVision demonstrated the benefits of NAH and offers the most cost-effective solution recognized for industrial acoustical investigations pertaining to a wide range of structures and components, from design phase through tuning and modification stages of projects, up to final acoustic optimization.

Best system for diagnosis, comparison and optimization

- ▶ Accurate Source localization and quantification (ranking) on any tested equipment
- ▶ Parametric simulation of new potential solutions relying on source masking functions
- ▶ 2D/3D map visualization for an efficient dialog with design office and project management
- ▶ Perfect tool for benchmarking competing solutions and predicting acoustic final product score (synthesis)

Test productive and cost effective solution

- ▶ All operational situations met with a choice of compact user-friendly hand-held arrays
- ▶ Patented IPS coupled to remotely driven DAQ system reduces time & facility (wind tunnel operations, ...) costs
- ▶ Fully automated test procedures relying on robotized instrumentation for increasing added value time, dedicated to analyzing processed data and developing your most competitive solution

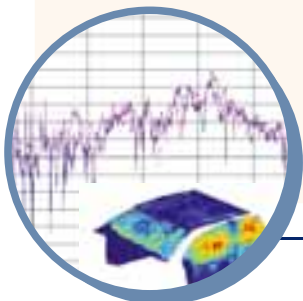


dBVision Technical Specifications

Features

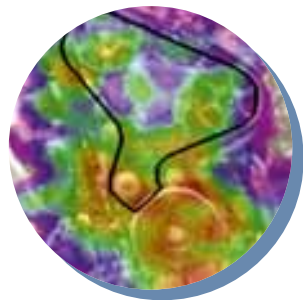
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Software package



- ▶ Data acquisition and database management
- ▶ Near-field pressure measurement, 3D visualization of measurement array locations
- ▶ Spectral analysis, holography mapping, noise source localization
- ▶ Visualization of pressure and intensity results (spectra, 2D colour maps),
- ▶ Global radiation power estimation
- ▶ Usual mathematical operators on NAH results (+, -, √, ...)
- ▶ Export to Matlab© (including time domain data)
- ▶ Batch functionality for data processing and reporting via automatic export to standard office tools

Software options



- ▶ **RANKING** - Partial power computations and Source ranking according to selected zones (patch definition)
- ▶ **TL** - Transmission Loss computations possibly using selected zones definition (patch definition)
- ▶ **FAR** - Far-field predictions capabilities, radiations patterns (directivity, polar diagrams, ...) - standard or advanced modules
- ▶ **EARPREDICT** - CABIN Noise level predictions at arbitrary location inside an enclosure
- ▶ **3DV** - 3D results display - enhanced interpretation capability
- ▶ **MULTIPLAN** - Multiple plan NAH measurement processing & related results display – includes 3DV option
- ▶ **HOLOCYL** - Cylindrical NAH measurements, processing & related results display – includes 3DV option
- ▶ **RELAX** - Automatic projection of measurement data onto regular grids from arbitrary antenna locations

Hardware components



- ▶ Acoustic arrays:
 - Standard 6, 10 and 12 channel arrays of microphones, ICP type – 5cm spacing
 - Modular array of microphones, ICP type, 10 to 60 channel – 2.5cm spacing
 - Any further array dimensions upon customer's request (esp. for Navy applications)
- ▶ Reference transducers (microphones, accelerometers, ...) used out of measurement plane
- ▶ dBVision patented Instrumentation Positioning System:
 - Simple, non-contact geometry positioning device based on ultrasonic technology
- ▶ 2D, 3D and 5D robots for automated testing

Data acquisition

- ▶ Full compatibility with stand-alone hardware: NetdB-DAQ platforms of 01dB, compact ORCHESTRA, PXI or VXI front-ends

PRODUCT REQUIREMENTS

Recommended PC computer: Minimum configuration with Pentium IV™ (2.4 GHz) or Centrino™ (1.6 GHz) with 512MB RAM, 40GB HDD; XVGA display; OS Win 2000 SP4 or Win XP SP1

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The presented characteristics are subject to change without notice. Rev: 08/2006

NetdB™