

NetdB DAQ12

NetdB



KEY BENEFITS

NetdB DAQ12 represents the last generation of Data Acquisition (**DAQ**) system for Acoustic & Vibration Applications. Also, a 32 channels version (NetdB32) is available and complete the 01dB-METRAVIB DAQ range.

These systems are cost-optimized and can be mixed and chained with simple and low-cost Ethernet cables. So, This DAQ chaining structure allow the use of a large number of acquisition channels from 4 to 2048 channels thanks to a **patented** Ethernet connection for data synchronization. The first network sensor is born!

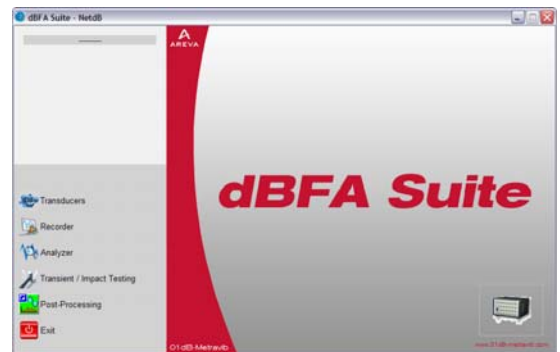
NetdB DAQ12 can be proposed with 4, 8 or 12 channels with firmware adaptation.

NetdB DAQ12 is a Data Acquisition Front-end for PC-based solutions. The distance between NetdB12 and PC computer is up to 100m (Ethernet copper cable).

NetdB DAQ12 can be used as a stand-alone Recorder thanks to a Wifi PDA remote control.

NetdB DAQ12 is supplied with an internal 60GBytes Hard-Disk giving 7 hours recording with 51200 sampling frequency, simultaneous 24 bits digitization on 12 channels.

- External modularity (Ethernet connection)
- Patented Ethernet Acquisition synchronization protocol
- Up to 100m between DAQ unit (copper cable)
- Close to transducers (transducer cables expensive!)
- Embedded PC with HDD
- Stand-alone or PC Front-end
- USB connectivity for WIFI or Memory extension
- Labview compatible
- Built-in batteries
- Special inputs extension slots on rear panel
- Compatible with all 01dB-METRAVIB NVH applications software (dBFA, dBVISION...)
- ...



KEY FEATURES

- 12 channels – 24 bits – AC/DC/IEPE - up to 51.2 kHz sampling frequency
- 2 analog BNC output for generation, 1 analog Jack Stereo output for headphones and one digital (SPDIF) output
- 4 and 8 active inputs channels version available
- Stand-alone signal recorder with external remote control and internal 60GB HDD
- General Purpose NVH analyzer with simultaneous multi-processing capabilities (FFT, 1/n Octave, Order analysis and tracking, Signal recording, Statistics, Acoustic and Vibration Overall values ...)
- Sound Power and Sound imaging
- Sound Quality



Inputs

Number of channels:	12 BNC connectors for dynamic channels (two are high frequency tachometer input hardware compliant – 12 MHz)
Digitization:	24 bits
Coupling:	AC / DC / AC with IEPE power supply
Ranges:	-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
SNR:	> - 105 dB RMS of the full scale
Trigger:	TTL input



Sampling frequency

3 sampling frequencies: 12.8 kHz, 25.6 kHz or 51.2 kHz

Same sampling frequency on each channel.

If several NetdB units are networked: same sampling frequency on each channel of each unit.

Patent N° FR0402086 – Ethernet Data Synchronization

Outputs

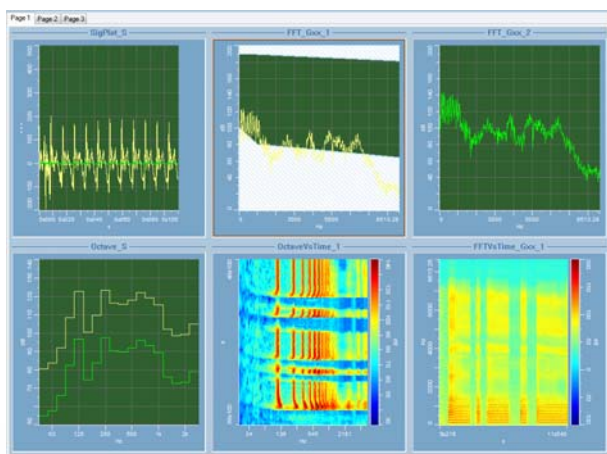
Number of channels:	2 BNC outputs 1 Jack for headphones 1 SPDIF digital audio outputs
Signal Generator:	White noise on the same frequency bandwidth as the acquisition Wave signals downloaded from the computer
Level:	Up to 20 V peak.

Power supply

Power:	20 W
Voltage:	12 to 14 VDC
Max current:	3.5 A
Battery life:	2 hours
Adapter:	AC 110 V / 250 V

Dimensions

H*W*L:	85 mm * 250 mm * 263 mm
Weight:	3.5 kg



01dB-Metravib
200 chemin des Ormeaux
F-69578 Limonest Cedex France
Tel. +33 4 72 52 48 00 - Fax +33 4 72 52 47 47
www.01db-metravib.com