

dBdataPRO Castle Sound Meter Software

Noise Analysis Software

Castle produce a well known range of high class data-logging instruments for measuring Noise, many of which have a built in PC communication facility via RS232 or USB interface. To make full use of this feature, a new range of PC software has been developed which will provide the user with the ability to manipulate and use data in the most flexible way using the full potential of Windows 95, 98, NT, ME, XP or 2000.

The particular instruments that can be used with the software from the Castle range are the the Pro-DX Vocis meters, which are real-time analysers available with octave band and 1/3 octave filters. dBdataPRO also works with the GA111 and GA154 as well as the Castle Professional range.

The Concept

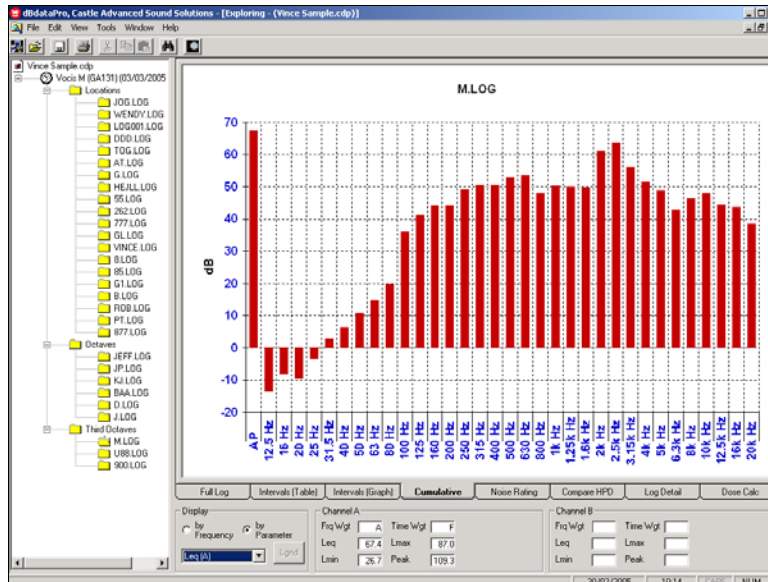
Simplicity is the key to the flexibility that this software offers. Once the program is open, one mouse click is all it takes to start acquiring data from the instrument. Options are then presented to the user about how much data and which types of data to acquire thus giving control to the operator. Once the data is in the PC, displaying the information in either graphical or tabular form could not be simpler. The 'explorer' pane on the left of the window shows the structure of the data and simply clicking on a data item will display a graph in the right hand pane.

Flexibility is Power

Getting the data to the screen of your PC is only the beginning and this is where the power of dBdataPRO really starts to come into its own. Within the program itself there are a number of options for manipulating data, for example. The Multi-view system allows you to tailor the data-view to exactly what you want to see. You can merge data taken with different instruments or on different occasions. You can even print out a report, which has your own company logo and name on it. You can change the frequency weighting for 1/1 and 1/3 octave data. You can carry out automatic hearing protection attenuation assessment and there is even a dose calculator for assisting with those tricky noise at work exposure formulae. What is more, all of this is available at the click of your mouse.

Windows Integration

Possibly one of the most powerful features of this software is the fact that you can use the tables and graphs in any of your other Windows software packages such as word processors or spreadsheets. The process is once again incredibly simple, as all you have to do is click on 'copy', go into your other software, open a document and 'paste' the data straight in Modular Software. You can even have the option of pasting a table of data, an editable picture or a bitmap, so you can tailor your reports to the way you want them!



noise



vibration



INVESTOR IN PEOPLE



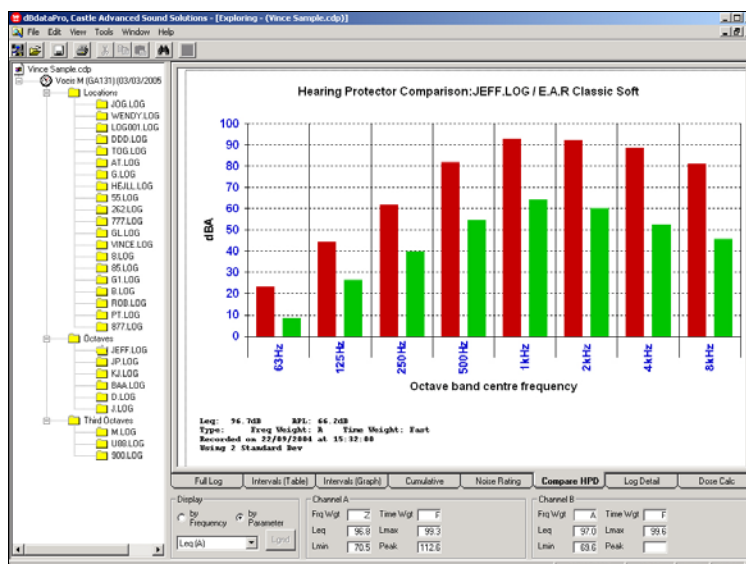
Castle
advanced sound solutions



Hearing Protection

Another very useful feature of dBdataPRO is the Hearing Protection attenuation Database which allows you to download measurements from your Sound Level Meter and then test out various hearing protectors to gauge their effectiveness for that type of noise environment according to the Noise at Work Regulations. Doing this gives you a detailed analysis graph and therefore evidence that you have selected a 'suitable' ear defender.

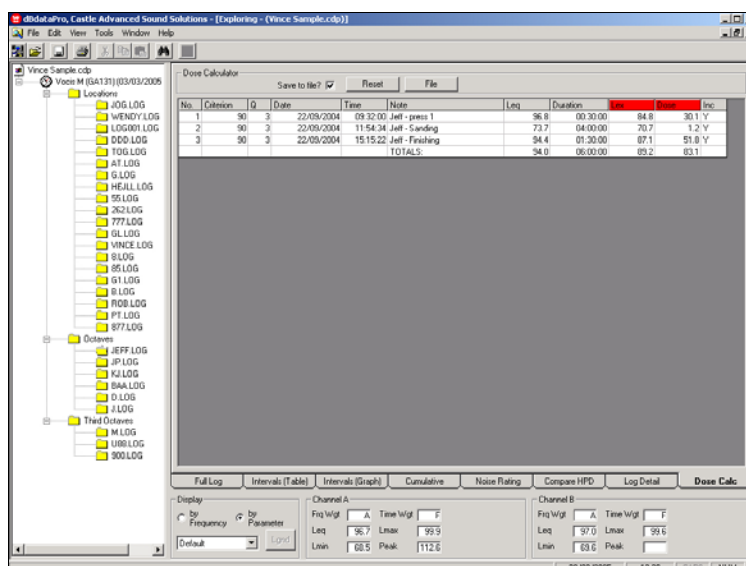
The picture (right) shows a measured octave band compared to E.A.R. Classic Soft ear plugs. You will see that the software is saying for this sound environment, those protectors will reduce the level from 96.7dBa to 66.2dBa. This process certainly takes any hassle out of what could otherwise be a time-consuming task



Dose Calculator

For conducting Noise at Work risk assessments, it can often be necessary to combine sound exposure from various tasks carried out by an employee. This involves calculating the exposure (Lep'd) for each task with one formula and then combining them with another formula. This can be time-consuming and there is potential for error.

With the dBdataPRO DoseCalc, it is a simple task to take readings from any number of measurements and put them into the table shown (right). This will then calculate the exposure (Lep'd) for each task and will also give the combined daily exposure.



Technical system requirements

Minimum Hardware

Pentium® Processor P200+ or compatible
 100 MB Free Disk space, 32 MB RAM
 1 Free RS232 25pin Serial Communications Port or 1 USB port (with USB to serial adaptor)

Software

dBdataPRO will work on the following operating systems. Windows 98, NT, ME, XP or 2000. If you have an alternative system, please call us to find out.

Ordering information

PC007 – dBdataPRO

Other Software (see separate sheet)

PC003 – dBdata4WV Vibration module
 PC005 – dBdata4WN Noise module

PC0035 – Upgrade from Noise to Vibration
 PC0045 – Upgrade from Vibration to Noise
 PC002 – dBdata software for DOS