



CEL SOUNDTRACK LIBRARY

dB36 SOFTWARE INSTALLATION AND USER MANUAL

Go to [Index](#)

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HB3342-01

TABLE OF CONTENTSBack to [Cover](#)

SECTION	TITLE	PAGE
1	Before You Start	5
2	Introduction	5
3	Minimum Specification	6
4	Software Application	6
5	Initial Setup	13
6	Creating a Tree View for Data Storage	15
7	Downloading from the CEL-6X0	17
8	View Measured Data	19
9	Action Level Exceedences	25
10	Printing Data	27
11	Options Menu	30
12	Generating Reports	32
13	Backing Up and Restoring the Database	39
14	Export and Import Data	41
15	Software Warranty	44

1. BEFORE YOU START

Please take the time to read this section as it clarifies the terms and conventions used in this handbook.

A. TERMINOLOGY

CEL-6X0: The CEL-6X0 sound level meter used to monitor and record noise levels. The 'X' represents the instrument model e.g. CEL-620.

dB36: The Windows application produced by Casella CEL to interface with the instruments.

B. WINDOWS, DIALOG BOXES, BUTTONS and MENUS

Throughout this handbook the following conventions are used:

Names of buttons, menus and related items are written in *italics* to distinguish them from the surrounding text, whereas window and dialog names are written with initial capital letters, for example:

Click the **OK** button to save the changes made in the Configuration dialog.

The vertical bar icon (|) is used to denote the path for hierarchical menu items, for example:

From the Main Menu select *View | Properties...*

C. KEYBOARD and Mouse

Throughout this handbook the following conventions are used:

Key names are spelled with an initial capital and are underlined. A plus sign denotes a key combination, for example:

Press **Ctrl+A** to select all the text in the window.

When a mouse click is indicated, the default is always a left-click unless otherwise specified, for example:

Right-click and select *Properties...*

Back to [Index](#)

2. INTRODUCTION

dB36 is Casella CEL's PC based software solution for the CEL-6X0 family of sound level meters. It provides users with a powerful and versatile Windows based application for the accumulation, processing, managing and presentation of noise data.

The software integrates the functions of data downloading, archiving and octave frequency data presentation into one easy to use package.

dB36 is built using the latest technologies from Microsoft™. The application itself is designed to take advantage of the ".NET framework" and all database functions have been implemented using SQLite.

dB36 offers the following features:

- Cumulative record display
- Octave data presentation
- Tree database structure
- Exporting of data in text and graphical formats

Data managed by this application is stored in a database. This allows the raw data to be easily migrated into other packages.

The following steps are recommended for getting your system started:

- Prepare the Instrument as detailed in the Operator's Manual for the CEL-6X0;
- Install the dB36 software;
- Configure the dB36 software for your system;
- Specify the data you want to display.

Back to [Index](#)

3. MINIMUM PC SPECIFICATION

A. HARDWARE SPECIFICATION:

- Pentium III - 1 GHz;
- 256 MB memory;
- 20 GB hard drive;
- CD drive for program installation;
- Super VGA colour monitor (1024 x 768 16M colours recommended);
- USB communication port.

B. OPERATING SYSTEM:

- Windows Vista (service pack 1);
- Windows XP Home or Professional;
- Windows 2000 (service pack 4).

Back to [Index](#)

4. SOFTWARE APPLICATION

This Chapter is presented in four Sections: Install dB36 Software; Redistribution of Microsoft Components; Uninstall dB36 Software; Starting dB36 for the First Time.

Before commencing Software Installation, it is recommended that a back-up copy be made of the program CD. Keep the original program CD in a safe place and use the copy to install the software. It is also advisable to ensure that no other applications are running while installation takes place.

A full installation of dB36 together with all required components can take several minutes depending on the speed of the PC. There may be periods of time during the installation when nothing appears to be happening, however looking at the hard-disk activity light should show that the installation is busy copying/updating the Windows installation.

If an error or warning message is displayed, make a note of it and continue with the installation.

DO NOT, if prompted restart the PC during the installation. Once everything has been installed the PC can be restarted.

HB3342-01

If the PC is restarted during the installation process then the user will need to start the installation process again. The Installation Requirements dialog will detect those components already installed and not attempt to install them again.

A. INSTALL dB36 SOFTWARE

1. Start Windows.
2. Insert the dB36 CD into the CD drive of the PC.
3. Windows should automatically detect the CD and start the installation process. Click on the 'Software dB36' button to begin the installation and the wizard shown in Figure 1 will be shown.



Figure 1 Setup Wizard Screen

If this is the case go directly to step 6, otherwise continue with steps 4 and 5.

4. Click the **Start** button on the task bar then select the **Run...** option.
5. Type **x:\setup**, where **x** denotes the CD drive identifier and press the **Enter** key.
6. Click on the 'Software dB36' to launch the dB36 installer package.
7. Click **Next** to proceed through the install wizard. The Licence Agreement window will be displayed. You must accept the Licence Agreement to continue with Software Installation. Check the "Accept" box to enable the **Next** button.
8. The dB36 installer will check the PC for any required components that are missing or out of date. It will then show a list of Components that must be installed. Refer to Figure 2. To see the description of each item, pass the cursor over the list of Components and read the text in the Description box. Select the Components and click **Next**.

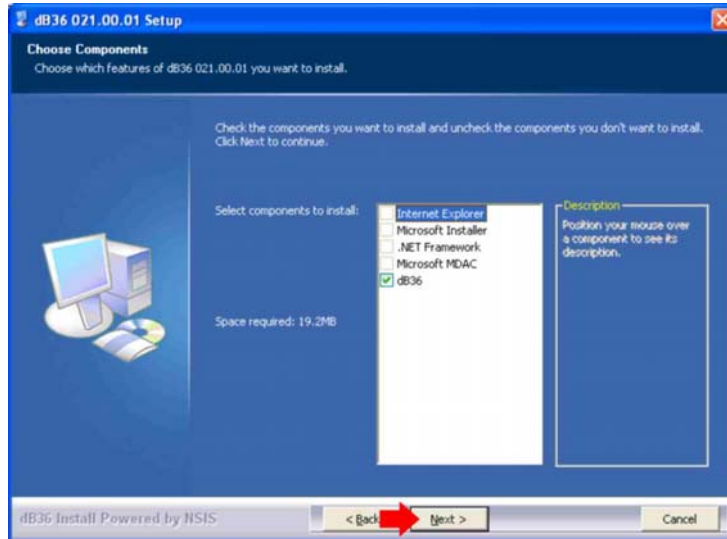


Figure 2 Required Components

NOTE: Unless otherwise instructed by your IT department do not change these selections, just click on **Next**.

- The program destination folder will be displayed. The dB36 Installer will offer a location on the PC Hard Disc Drive (A) and display the space required (B). If the program destination is not satisfactory, click the **Browse** button to select a different location. When the program destination has been selected, press **Next** (C). (Refer to Figure 3)

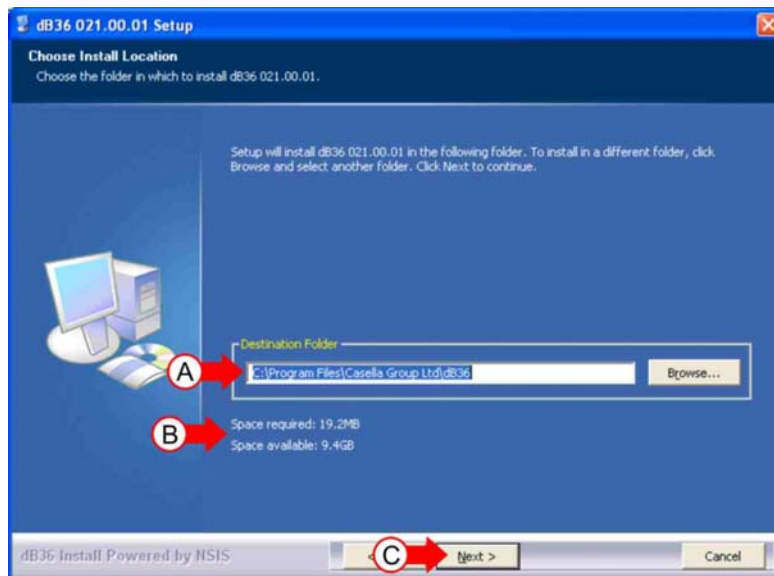


Figure 3 Program Destination Screen

- The programs already installed on your PC Hard Disc Drive will be displayed. The dB36 Installer will offer a name for the Start Menu Folder (A) – Refer to Figure 4. If this is not acceptable delete it and enter a preferred name for the Start Menu Folder. When the Start Menu Folder name is satisfactory, press **Next** (B).

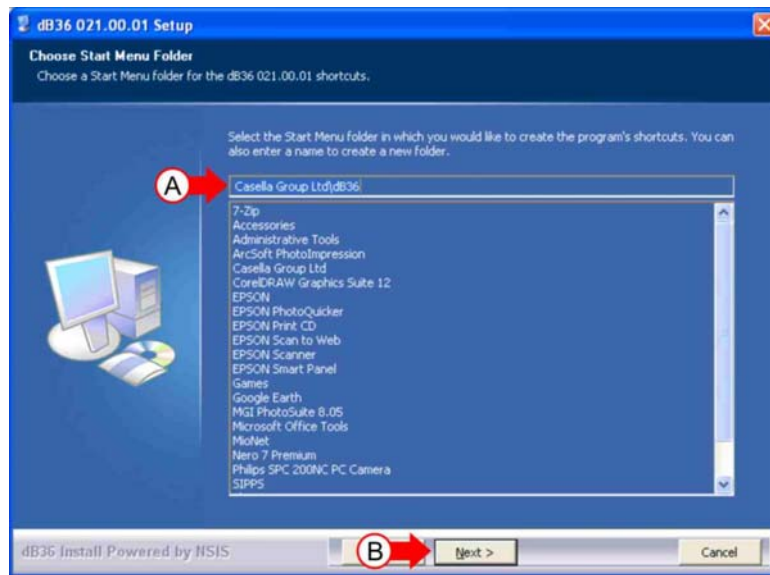


Figure 4 Start Menu Folder Screen

12. Setup is now ready to install the dB36 Program. Check the Destination Folder and Setup Menu Folder (A) are what you want and press **Next** (B) to begin Installation (Refer to Figure 5).

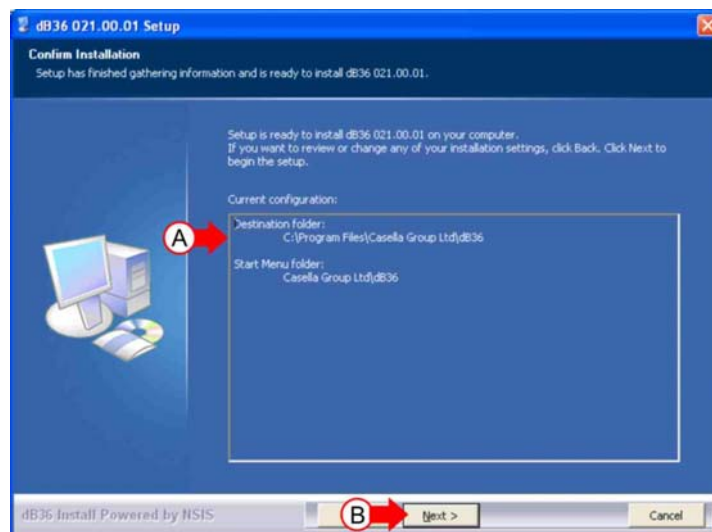


Figure 5 Setup is Ready to begin Installation

13. During Installation the buttons on the screen are disabled (Refer to Figure 6). Installation time is dependent on PC speed.

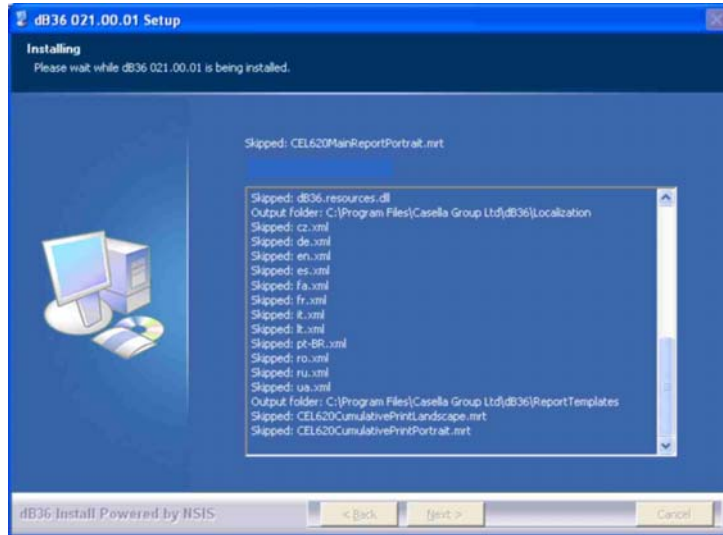


Figure 6 Installation

14. A screen is displayed indicating the Setup was completed successfully when the Installation is complete (Refer to Figure 7). Click **Next** to continue.

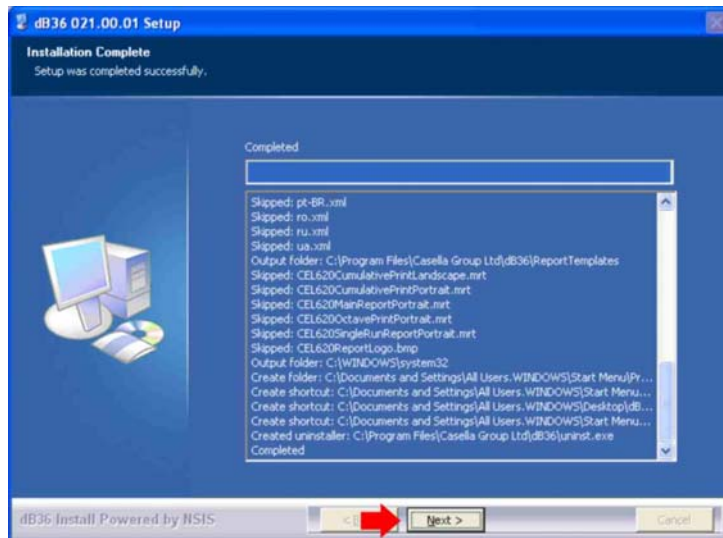


Figure 7 Installation Complete Screen

15. The screen confirming a successful installation is displayed. To acknowledge the installation, press **Finish** (Refer to Figure 8).

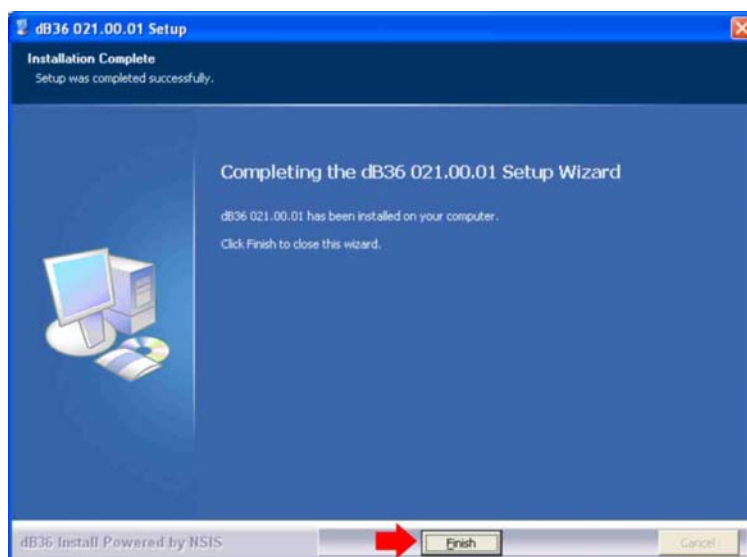


Figure 8 Installation Finished Screen

16. The Setup is now complete.



Once installation is complete, you will find the dB36 icon on your Windows desktop.

B. REDISTRIBUTION OF MICROSOFT COMPONENTS

Casella CEL Ltd redistributes some or all of the following Microsoft products as part of the dB36 installation:

- Microsoft Explorer;
- Microsoft Installer;
- Microsoft Data Access Components;
- Microsoft .NET Framework;

Casella CEL Ltd redistributes these under the terms and conditions of the relative "End User Licence Agreements" (EULA) as stipulated by Microsoft. Copies of each EULA can be obtained from the Microsoft web site "www.microsoft.com".

No additional warranty is offered or implied by Casella CEL Ltd in relation to these Microsoft products.

C. TO UNINSTALL dB36 SOFTWARE

1. Click the **Start** button on the task bar.
2. Select **Settings...** and then **Control Panel**.
3. Double-click on **Add/Remove Programs** icon.
4. In the list of installed software, select dB36 and click the **Add/Remove** button.
5. Follow the on-screen instructions.

D. STARTING dB36 FOR THE FIRST TIME

To start dB36, double click the desktop icon or by select the shortcut located in **Start | Programs | CEL Soundtrack**

You will be prompted to select a directory where the database file will be located. Unless otherwise instructed by your IT department, use the default directory offered by dB36. Refer to Figure 9.

NOTE: We recommend this directory be backed up on a regular basis to keep data secure.

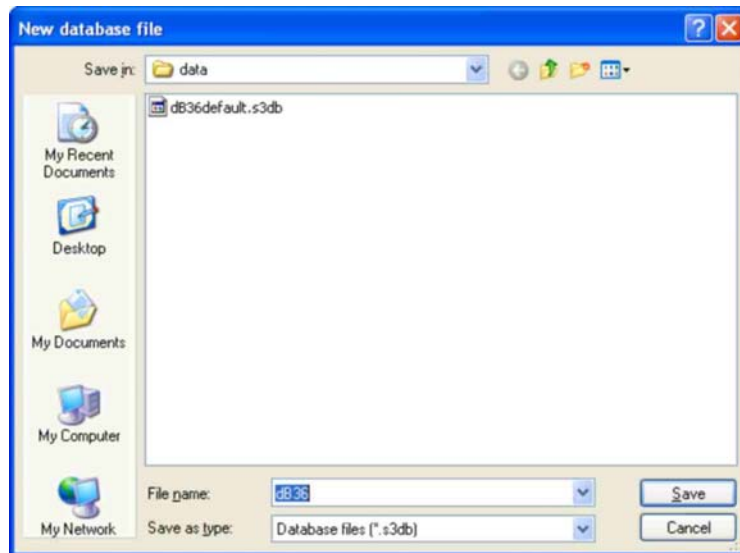


Figure 9 Select Directory

Click **Save** to select the highlighted directory. Do not move the above database file as this will prevent dB36 from working.

The dB36 application will now create an empty database then populate it with the minimum entries required for a usable installation. A message will be displayed stating a database has been created. Click **OK** to continue.

At this point the dB36 main screen will be displayed. Refer to Figure 10.

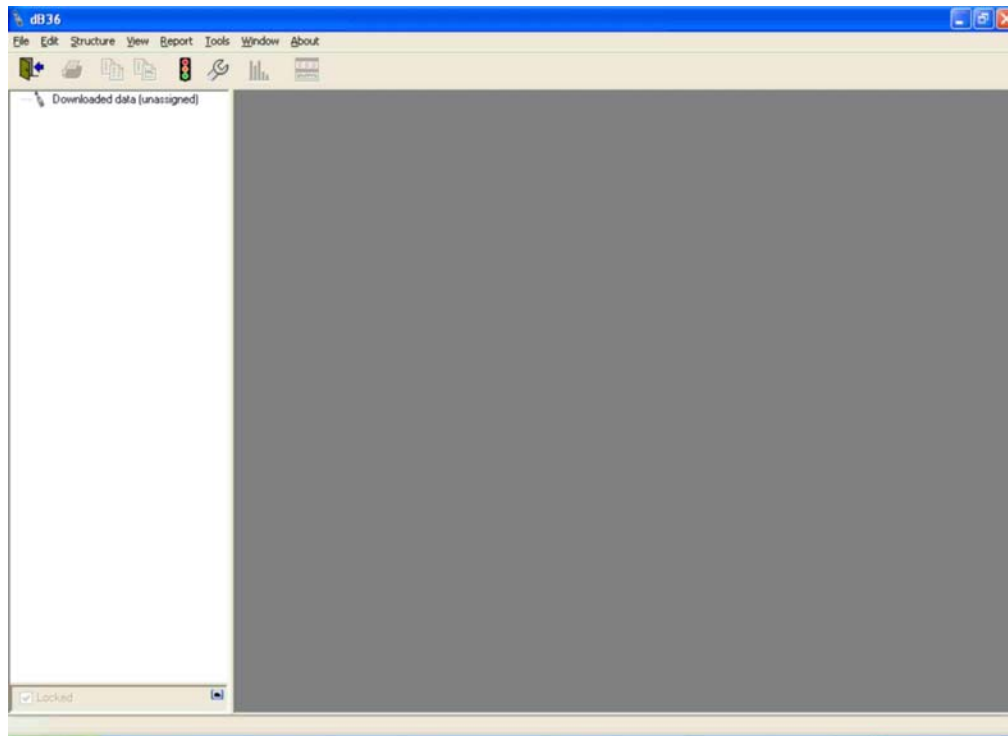


Figure 10 Main Screen

Back to [Index](#)

5. INITIAL SETUP

A. OPTIONS

A number of settings can be changed using the *Tools | Options* menu. dB36 is set to default settings which should not need to be changed, except for the paper size used when printing documents. If you do not wish to change the defaults, move to section 6.

MAIN SCREEN: Select *Tools | Options | CEL-6X0* (Refer to Figure 11).

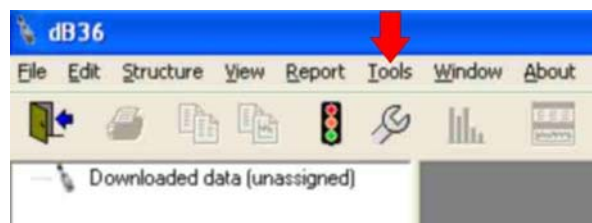


Figure 11 Select Options from Main Screen

When the Options screen is displayed select the **Copy Export** tab (Refer to Figure 12). Set the preferred parameters.

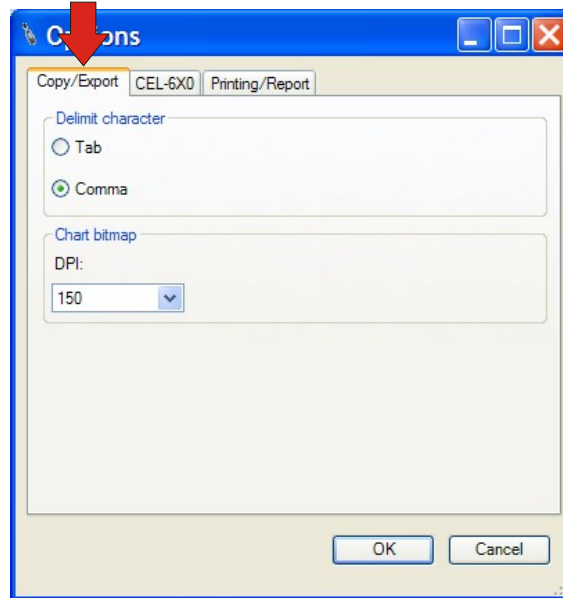


Figure 12 Copy Export Tab

Select the **Printing/Report** tab. The default settings will be displayed. Use the drop down menu to select a preferred setting. Select paper size for reports to be printed on (Refer to Figure 13).

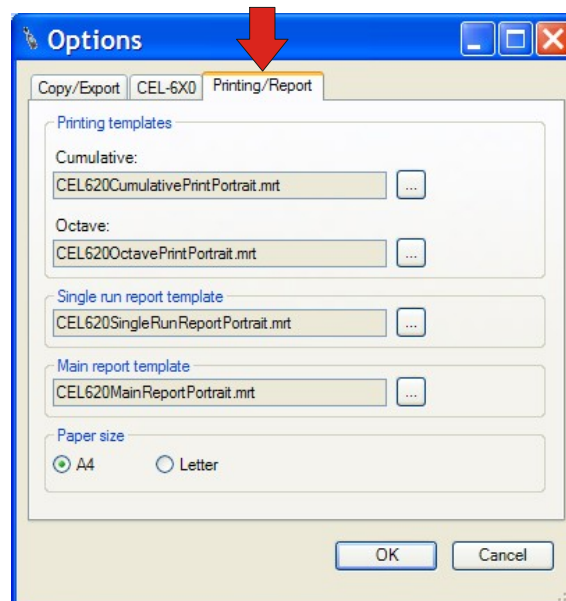


Figure 13 Printing/Report Tab

6. CREATING A TREE VIEW FOR DATA STORAGE

The Data Storage Tree view is designed to provide an easy and convenient way to store and manage data according to a relevant place, person or process etc. Data can be stored in different folders as represented by specific icons shown below:



Folder



Site



Location



Process



Person

A. STARTING THE TREE

1. ADD A NEW FOLDER (Refer to Figure 14)

- (A). Right click anywhere in the blank space below the CEL-6X0 icon and select 'Add new folder'.

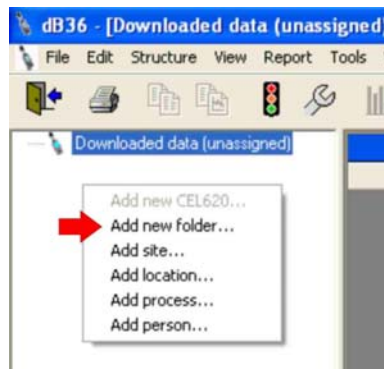


Figure 14 Add a New Folder

- (B). Give New Folder a Name and Description (Refer to Figure 15) – The default title will be New Folder. Add a new name and description. Click **OK** to continue.



Figure 15 Give New Folder a Name and Description

- (C). The new folder is listed in the left hand below the CEL-6X0. (Refer to Figure 16)

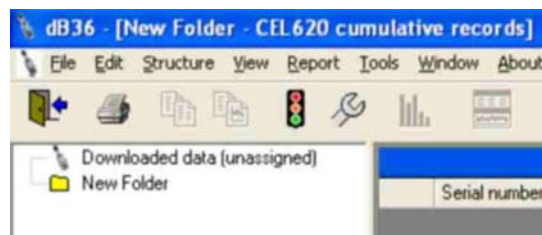


Figure 16 New Folder below the CEL-6X0

2. ADD SITE (Refer to Figure 17).

- (A) Right click anywhere in the blank space below the CEL-6X0 icon, or on an existing tree node (location, process, etc) and select 'Add Site.'
- (B) The Site Records window will be displayed. Click **New**.
- (C) The Add New Site window is displayed. Type in the site name and add any notes as appropriate. Click **OK**.
- (D) The Site Records window is displayed. Click **New** (1) to add another site. Click **Edit** (2) to make changes to a site. Click **Delete** (3) to remove a site. Click **Select** (4) to add the named site.
- (E) The new site will be listed below the CEL-6X0.

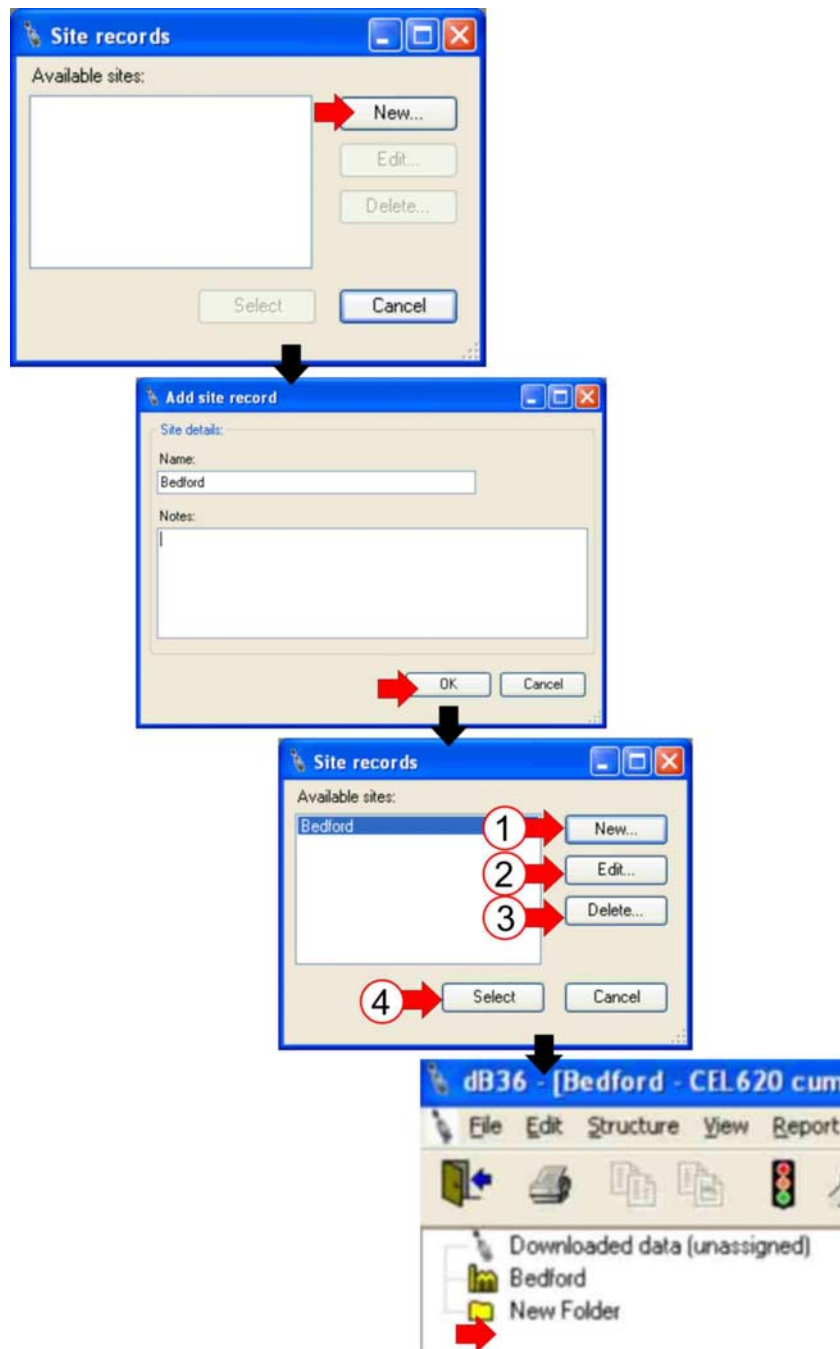


Figure 17 Add Site

B. DEVELOPING THE NEW TREE

The database tree can be added to, or have details removed from it by repeating the procedures explained in Section 6A. This can be done for processes, people etc until the tree structure is as required.

Back to [Index](#)

7. DOWNLOADING FROM THE CEL-6X0

- A. Connect the CEL-6X0 to the USB port of the PC with the cable provided. Press the CEL-6X0 **ON** button. If an explorer window appears showing the contents of the CEL-6X0, minimise it.
- B. The Select Runs to Download window is displayed showing the runs available (Refer to Figure 18). Click **Select All** (1) to highlight the runs for download. Click **OK** (2) to download the data. Click **Select None** (3) to cancel the selection.
- C. When the data has been downloaded to the PC a Download Summary window is displayed giving the option to keep the data on the CEL-6X0 or to permanently delete the data from the CEL-6X0 (Refer to Figure 23). The downloaded data will be displayed under the 'Downloaded data (unassigned)' icon at the top of the tree structure. At this stage the downloaded data is unassigned to any person or place created in the tree view.

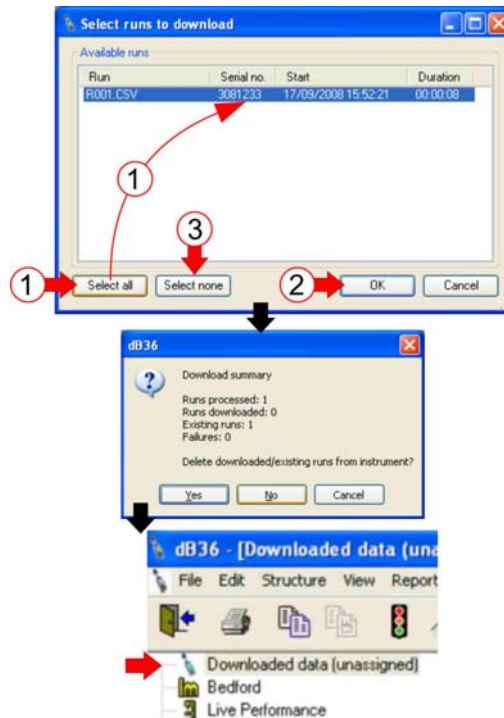


Figure 18 Download a Run

- D. The downloaded run is added to the Cumulative Records Screen (Refer to Figure 19 [1]).

To allocate the measured run data to a site, person etc within the tree structure, click on the run (2) in the cumulative table and drag it to the relevant part of the tree structure.

Downloaded data is uniquely identified by the CEL-6X0 serial number and the run start date and time.

Additional notes can be added to the measurement run to include information such as shift times, job roles, breaks. To add a note, right click on the measurement run (3) to display the drop down menu (B) and select 'Add note' (4). A window is displayed where additional information can be added. Click **OK** to save the additional information.

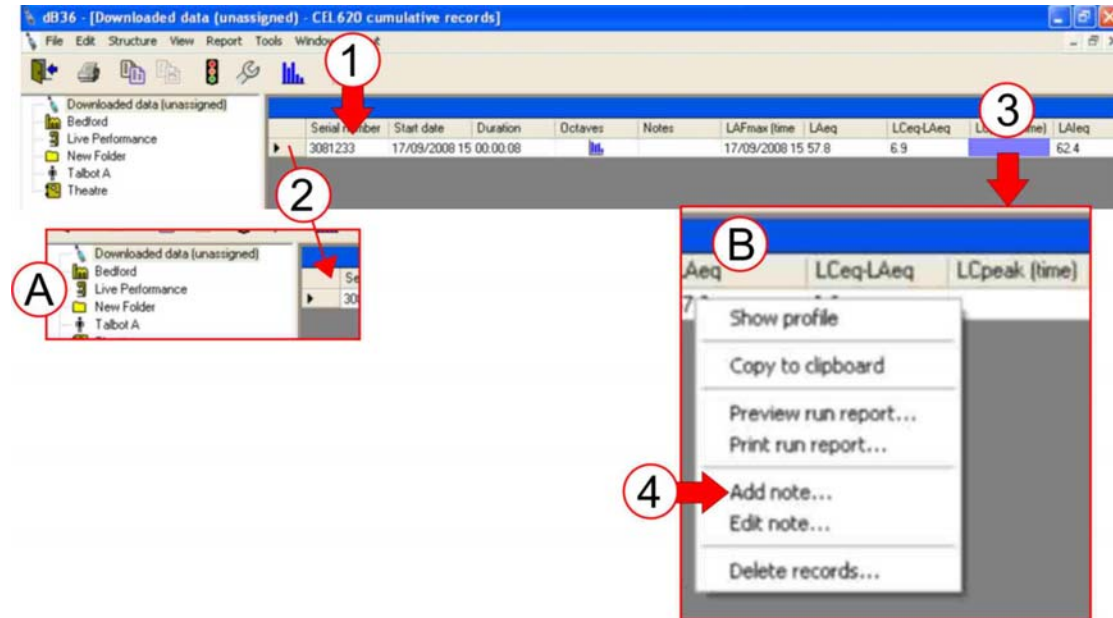


Figure 19 Cumulative Records

Back to [Index](#)

8. VIEWING MEASURED DATA

There are two distinct types of data downloaded from the CEL-6X0 family.

Cumulative Data corresponds to the measured values over the entire measurement duration, this includes, times, dates, noise levels etc. (CEL-620A and CEL-620B models).

Octave Data is the average and maximum levels for each Octave band 16Hz to 16KHz. (CEL-620B models only).

A. CUMULATIVE DATA

The instrument simultaneously measures parameters for different measurement protocols, making it suitable for use worldwide. Downloaded data can be presented in five separate views:

- ISO View (for measurements based on EU Directive 2003/10/EC);
- OSHA View (for USA based measurement protocols);
- ACGIH View (American Industrial Hygiene USA)
- DOD View (Department of Defence USA)
- USER View (bespoke measurement protocol not based on any particular legislation).

Changing the view determines which parameters are available to the user. The default view is ISO. Other views are selectable from the **View** menu (Refer to Figure 20). The active view is indicated with a 'tick'.



Figure 20 Default ISO View

1. CUSTOMISING CUMULATIVE VIEW (Refer to Figure 21)

By default, only the main relevant parameters for each view are displayed. Other parameters are available if required. For example, when in ISO view, the main ISO parameters are initially displayed (L_{Aeq} , L_{Cpeak} etc), but other parameters such as calibration times and L_{Amax} can be included at any time. To change the viewed data, select **View | Properties** to display the View Properties window.

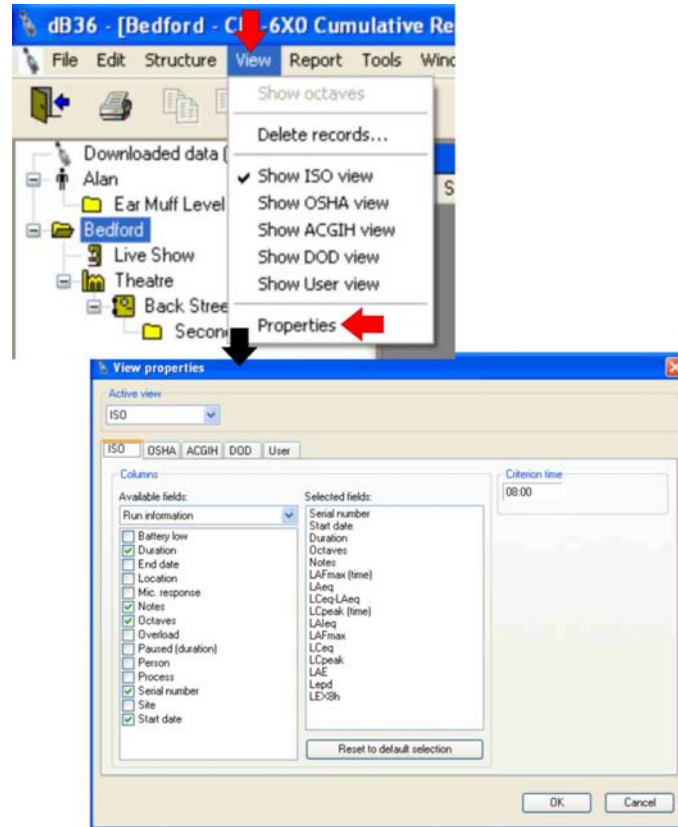


Figure 21 Customizing Cumulative Data

By selecting the relevant tab (ISO, OSHA, ACGIH, DOD, USER) the parameters for that view can be changed. Use the left hand window (Available Fields) to select/deselect individual parameters. Only ticked parameters will be shown. Use the Selected Fields window to specify the column order of the selected parameters. Click and drag individual fields up and down as required. The top field will be displayed in the left hand column of the cumulative data view.

2. CRITERION TIME

Criterion times are used in the calculation of some dose values (Lavg, TWA). The criterion times applied to dose values can be changed as required. Once changed, the relevant dose data (Projected Lex,8h, Lepd and TWA) subsequently viewed will have criterion times applied automatically. (Refer to Figure 22 [A]).

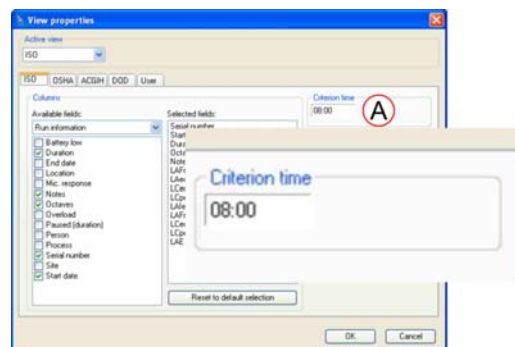


Figure 22 Thresholds and Criteria

The criterion time is the overall time during a working day an individual is exposed to the measured noise. It is therefore used to project forward if only a partial measurement of a working day was taken.

HB3342-01

3. COPYING DATA

If data is required in other applications it may be transferred using the clipboard.

Click in the field (1) to highlight the rows to be copied. Click Copy (2) to send the data to the clipboard. Alternatively - Click Edit in the menu and select Copy to Clipboard.

The data in the current view will be copied to the clipboard together with the relevant column headings.

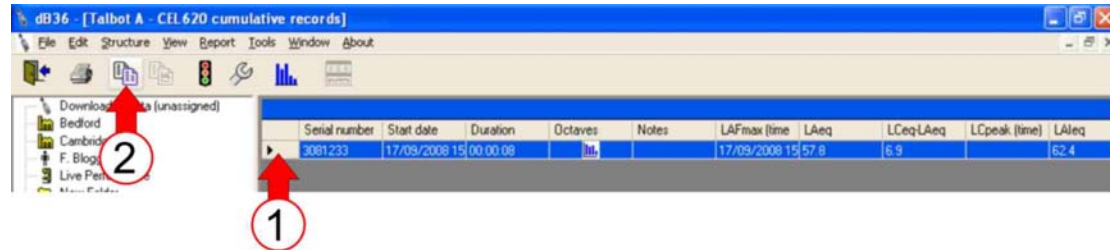


Figure 23 Copying Cumulative Data

If octave data is available, a table of the octave data is on the left of the bar graph (Refer to Figure 24) and drop down arrow (A) is used to select a parameter to be displayed. It can be copied in the same method as described above. Use the mouse to move the Cursor (B) across the graph to see the dB level of each bar. Right click on the bar graph and select Copy to place the graph on the clipboard.

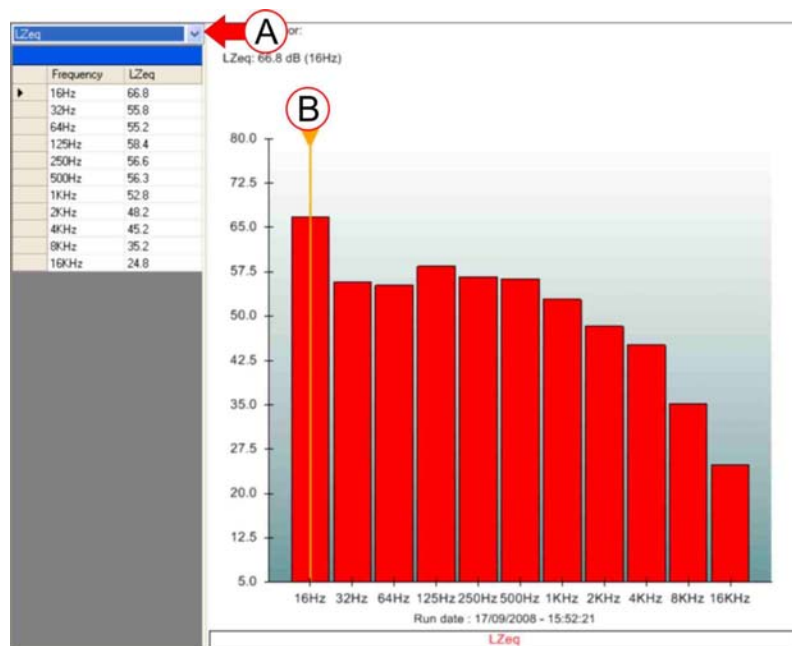


Figure 24 Octave Bar Graph

B. CUSTOMISING OCTAVE DATA

The view can be changed from the default display showing the Table and Graph together as in Figure 25. Just the Table, or just the Graph can be selected. (Refer to Figure 26).

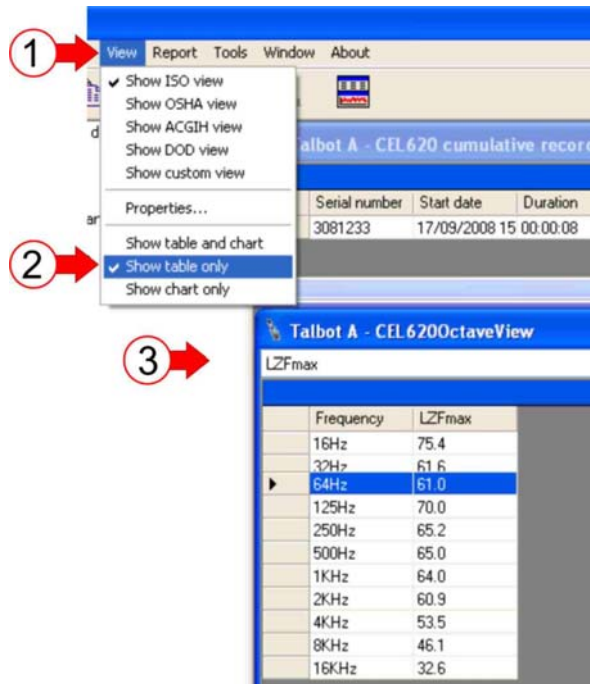


Figure 25 Customising Octave Data – Table



Figure 26 Customising Octave Data – Graph

HB3342-01

As with the cumulative view, the Octave view allows data to be displayed according to specific specifications such as ISO, OSHA ACGIH and DOD. These can be selected using the **View** menu. (Refer to Figure 27)

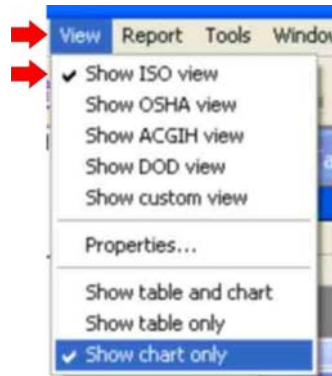


Figure 27 Select ISO, OSHA

Each of these views can be altered by going to **View | Properties**. The View Properties window will be displayed (Refer to Figure 28).

Select a specification from the Active View drop down menu (1). Click on the tabs (2) to see the parameters selected. The individual views can be selected using the tabs and then customised as required, altering data displayed on the graph and table.

Use Available Fields (3) to select/deselect individual parameters. Only ticked parameters will be shown. Use the Selected Fields window (4) to specify the order of the selected parameters. Click and drag individual fields up and down as required. The top field will be displayed in the left hand column of the profile table. Click **OK** (5) to close the window and save changes.

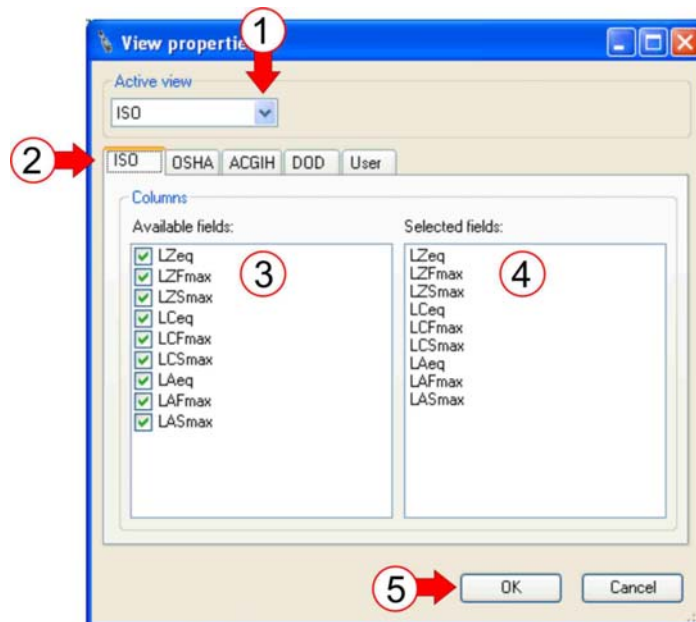


Figure 28 View Properties

C. COPYING OCTAVE DATA

The table or graph of the profile data can be copied. This can then be pasted directly into other applications.

Click the top left cell of the table (1) to highlight the row to be copied (2). Click Copy (3) to send the data to the clipboard. Alternatively - Click Edit on the top button bar and select Copy Table to Clipboard, or Copy Chart to Clipboard as required.

The data in the current view will be copied to the clipboard together with the relevant column headings.

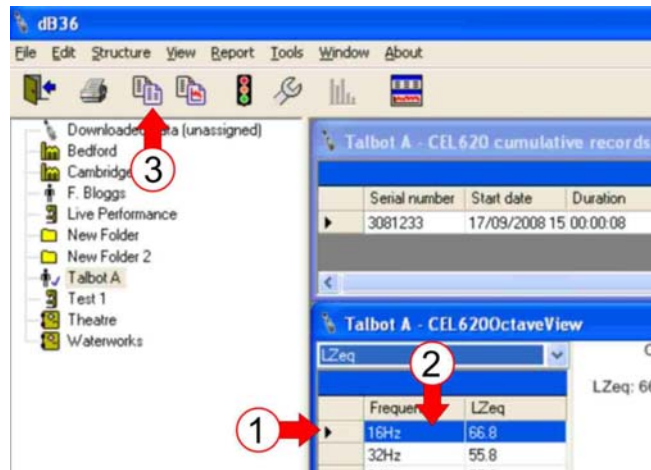


Figure 29 Copying Octave Data

D. OCTAVE GRAPH OPTIONS

Right click on the octave graph (1) to access the options menu. The chart can be copied to the clipboard for pasting into other applications.

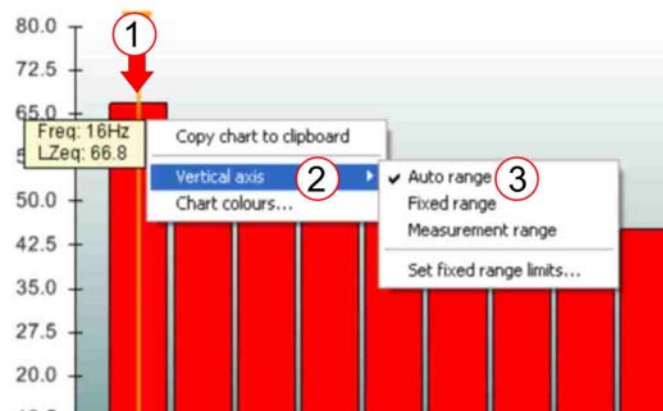


Figure 30 Profile Graph Options

Click on the vertical (dB) axis of the graph (2) to display the options menu. Make selection from auto range (default), fixed range or measurement range. The fixed range limits can also be set accordingly.

Back to [Index](#)

9. ACTION LEVEL EXCEEDENCE

Data can be automatically colour-coded within the cumulative data table to show which measurements have exceeded specific noise action levels.



Press this icon on the top button bar to colour the data according to the current settings. These action level exceedence levels are determined by the view currently selected, ISO, OSHA, ACGIH, DOD or USER.

Serial number	Start date	Duration	Octaves	Notes	LAFmax (time)	LAeq	LCeq-LAeq	LCpeak (time)	LAeq
3081233	17/09/2008 15:00:00.08				17/09/2008 15:57.8	6.9			62.4
3081233	27/09/2008 12:00:00.27				27/09/2008 12:00.27	77.6	0.8		87.1

Figure 31 Colour Coded data According to Action Level

If the action levels colours or levels need to be changed, click the button (A) to display the Action Level Control Window. Click button (A) again to close the Action Level Control Window.

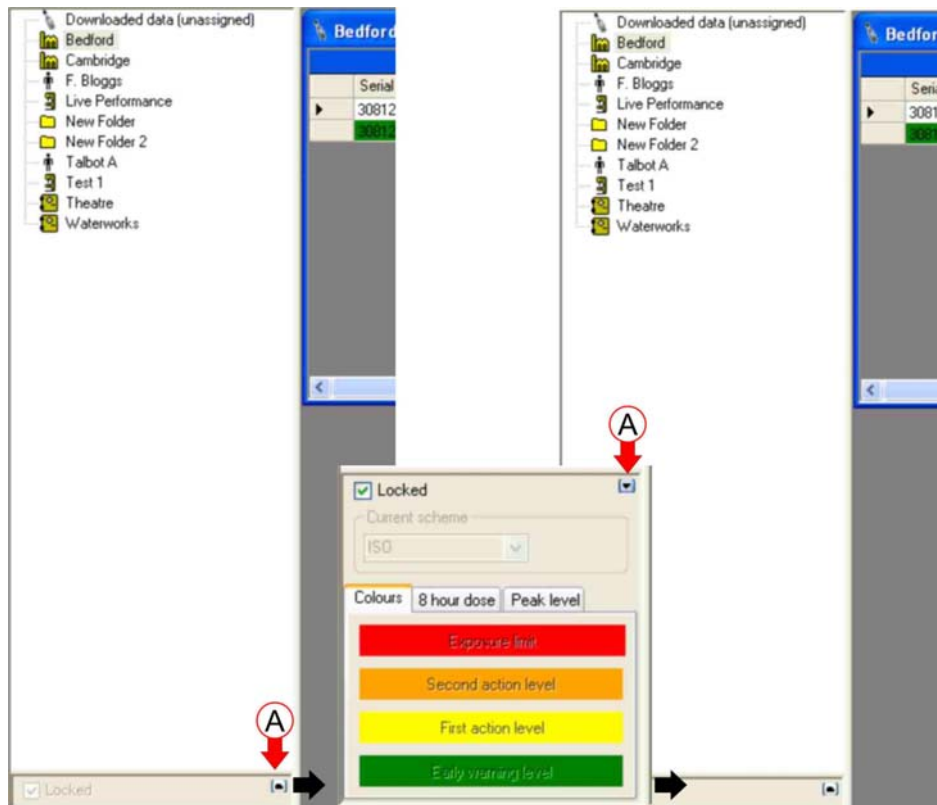


Figure 32 Action Level Control Window

The control will then be displayed (Refer to Figure 33). To make any changes:

1. Uncheck the tick box (A) next to 'Locked' to allow changes to be made.
2. To change from ISO, ACGIH, DOD, OSHA or USER click the dropdown menu (B). Select ISO, OSHA or specific USER settings. Action level colours can now be configured according to the selection made.
3. The colours used to highlight the cumulative data table can be altered by left or right clicking the relevant coloured box (C). Left click for background colour, right for text colour.
4. This will open the colour palette window (D).
5. Make changes and click **OK** (E) to close the colour palette window and save changes.

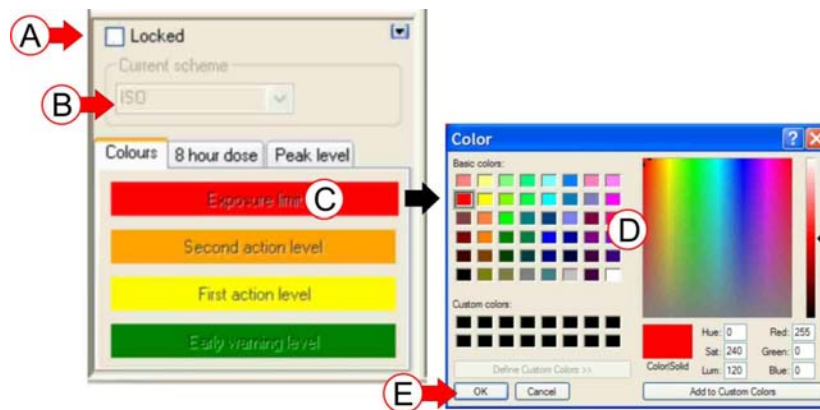


Figure 33 Action Level Control Window Unlocked

The action levels can be changed for Dose Level (A) and Peak Level (B) by selecting the appropriate tabs. (Refer to Figure 34). The new values and colouring are applied to the cumulative data table by pressing the traffic light icon on the tool bar.



Figure 34 Eight Hour Dose and Peak Colour Levels

NOTE: The '8 hour dose' values highlight data based upon measured average values (Leq or Lavg), independently of inputted criterion times and projected Lepd, Lex,8h and TWA values.

Back to [Index](#)

10. PRINTING DATA

A. PRINTING CUMULATIVE DATA

Cumulative data can be printed in a tabular form. The data printed will be the parameters selected in the current view together with any notes. To select the data that you require printed follow the procedure detailed in Chapter 8 Section A (1) Customising Cumulative Data to alter the viewed data as required. Only highlighted measurements will be printed. Highlight the cumulative data that is to be printed by clicking on the grey box at the left of the row (Refer to Figure 35).

Serial number	Start date	Duration	Octaves	Notes	LAFmax (time)	LAeq	LCeq-LAeq	LCpeak (time)	LAeq
3081233	17/09/2008 15:00:08				17/09/2008 15:57.8	6.9			62.4
3081233	27/09/2008 12:00:00	00:27			27/09/2008 12:77.6	0.8			87.1

Figure 35 Highlight Data To Be Printed

MAIN MENU - Select **File | Print Preview** or **File | Print** as appropriate (Refer to Figure 36). When the data is sent directly to the printer, the printer dialogue box will be displayed and the installed printer(s) can be selected and the settings changed as required.

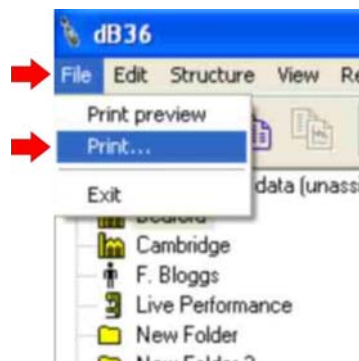


Figure 36 Printing the data

PRINT PREVIEW (Refer to Figure 37)

The Print Preview screen allows the operator to select to go straight to print or to select to export the file.

PRINT – Press the Print button (A).

EXPORT – Press the drop down menu button (B). Select an export format (C). The Export Settings window (D) is displayed. Make the appropriate selections on the Export Settings window and press **OK** (E).

For more details about the export option refer to [Chapter 14](#).

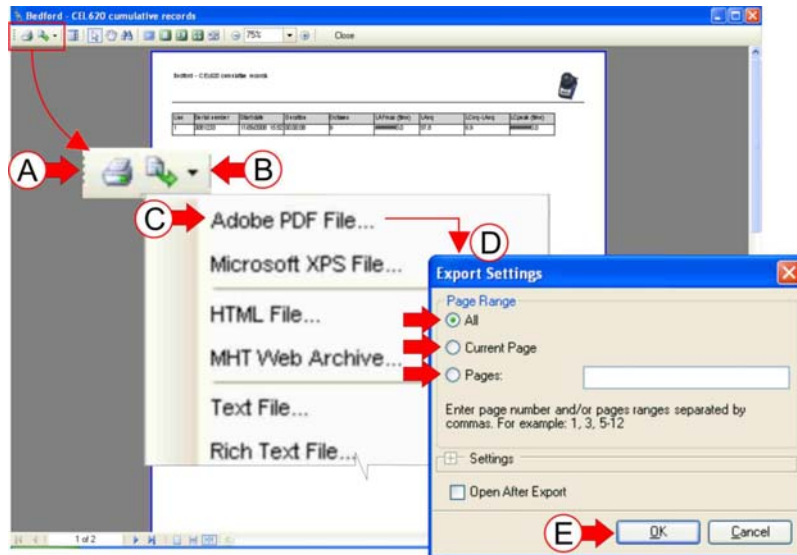


Figure 37 Print Preview of cumulative data

B. PRINTING OCTAVE DATA

To select the data that you require printed follow the procedure detailed in Chapter 8 Section 3 (B) Octave Data to alter the viewed data as required.

PRINT – Press File (A) and then Print (B). The Print Options window (C) is displayed. Make print selections and press Print (D).

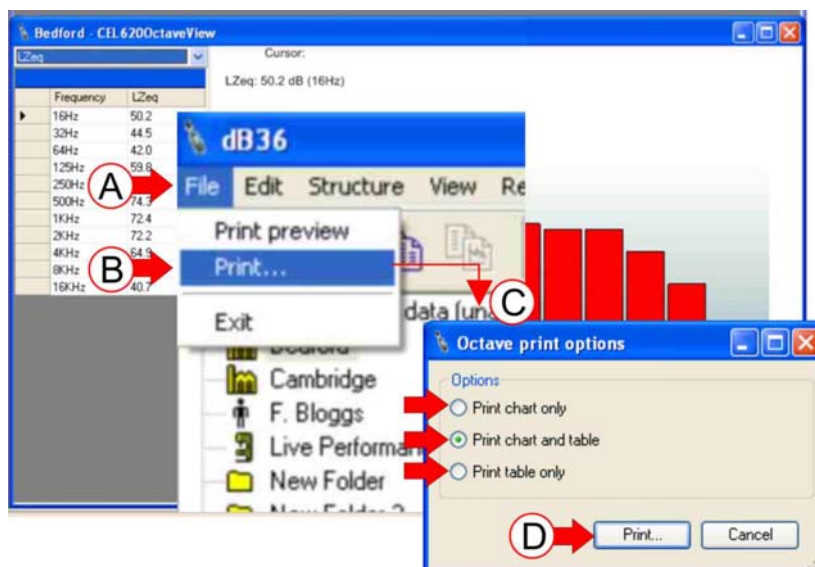


Figure 38 Select Data to Print

HB3342-01

PRINT PREVIEW (Refer to Figure 39) – The Print Preview screen allows the operator to select to go straight to print or to select to export the file.

PRINT – Press File (A) and then the Print Preview button (B). The Octave Print Preview window is displayed. Make the appropriate selection and press Preview (D).

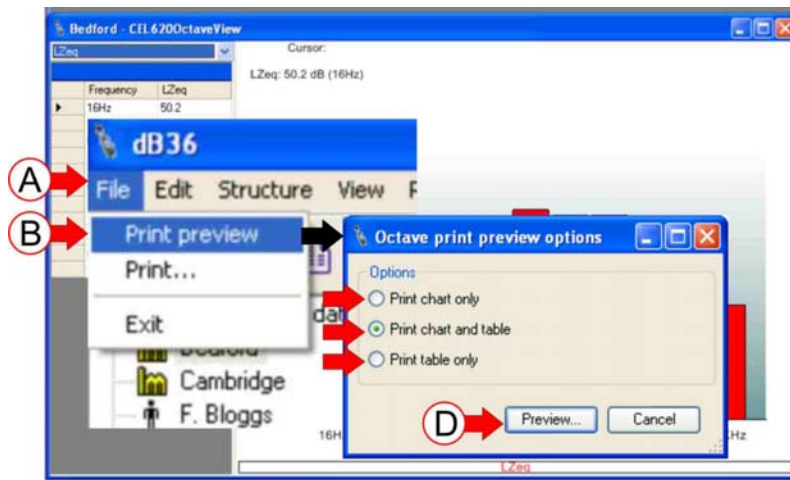


Figure 39 Print Preview of Octave Data

EXPORT (Refer to Figure 40) – Press the drop down menu button (A). Select an export format (B). The Export Settings window (C) is displayed. Make the appropriate selections on the Export Settings window and press **OK** (D).

For more details about the export option refer to [Chapter 14](#).

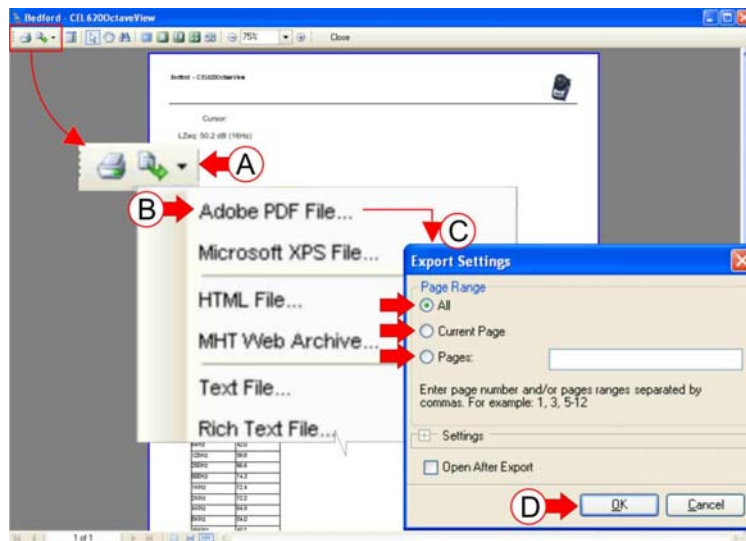


Figure 40 Export Octave Data

Back to [Index](#)

11. OPTIONS MENU

The Options Menu provides access to the Copy/Export, CEL-6X0 and Report settings.

A. COPY/EXPORT OPTIONS (Refer to Figure 41)

Click the Show dB36 Dialogue icon (1) to display the Options window (Alternatively go **Tools | Options**). Click the Copy/Export tab (2).

The copy/export options allow changes to the way data is exported from dB36.

3. DELIMIT CHARACTER - This specifies the character used to separate each parameter.
4. CHART/BITMAP - This option determines the resolution of the exported chart image. (web pages use 75DPI (Dots Per Inch), whereas documents use 300DPI).

If more changes are required, click on the CEL-6X0 tab.

5. If no further changes are required click OK to close the window and save changes.

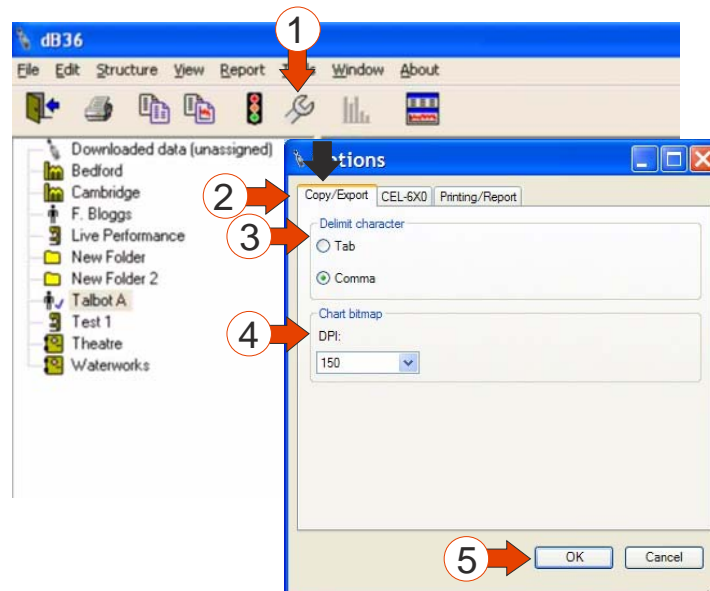


Figure 41 Copy/Export Options

B. REPORT TEMPLATE (Refer to Figure 42)

The default settings will be displayed. Use the drop down menu (1) to select a preferred setting. Select paper size for the report to be printed on.

Default templates should be used. When all changes have been made, click **OK** (2) to close the window and save changes. Click Cancel to close without saving changes.

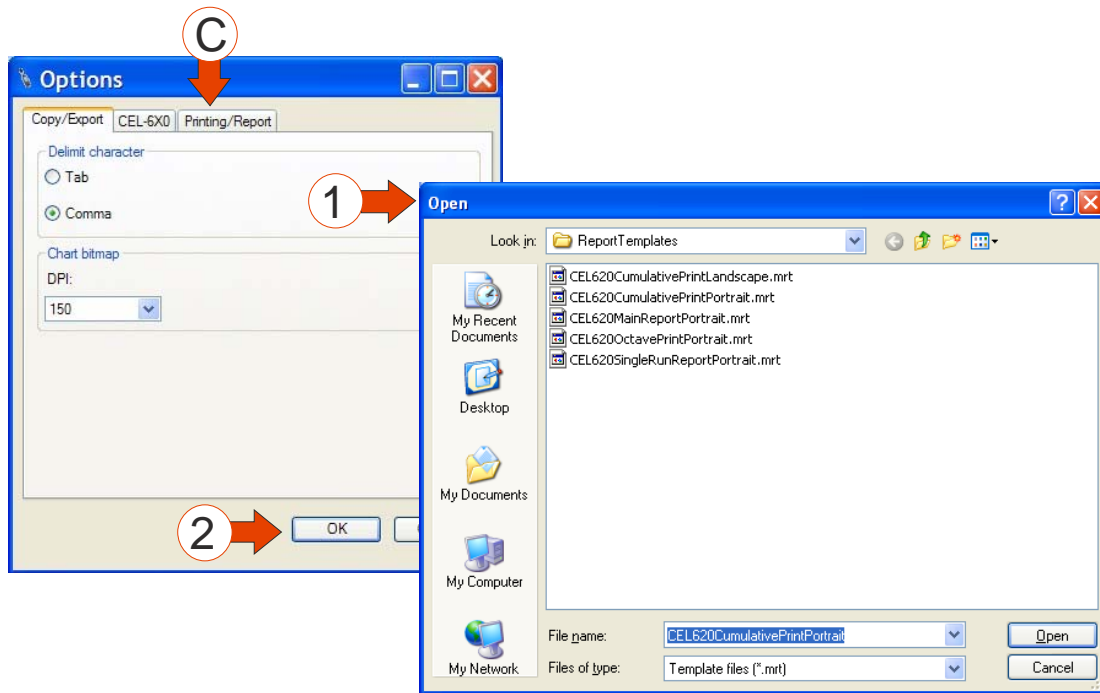


Figure 42 Printing Report Tab

Back to [Index](#)

12. GENERATING REPORTS

Single run reports will print both the cumulative and octave data (if available). This will also include any notes added to the cumulative data. An example of a single run report is shown in Figure 43.

A. GENERATE A SINGLE RUN REPORT

1. Click the Report button.
2. Select 'Preview run report' or 'Print run report' as appropriate. The report will either be previewed as shown in Figure 43, or if 'Print run report' is selected, the print dialogue box will appear allowing selection of the relevant printer.

Alternatively:

3. Right click on the relevant measurement run (Refer to Figure 43);
4. Select Preview Run Report or 'Print run report' as appropriate. The report will either be previewed as shown in Figure 43, or if 'Print run report' is selected, the print dialogue box will appear allowing selection of the relevant printer.



Figure 43 Single Run Report

B. GENERATE MULTIPLE RUN REPORTS (Refer to Figure 44)

Data is included in the final report based on the portion of the tree structure selected, in this example Theatre. All people and process data below 'Theatre' will be included, however, any individuals from 'Live Show' and all other data from 'Bedford' will not be included.

REPORT GENERATION

Right click on Theatre (1). Alternatively use the 'Report' Menu (2).

Select 'Generate report for this site...' (3). This will generate a report for 'Theatre' only under the tree section of 'Bedford', whereas selecting 'Generate report for this site (all records)...' (4) will generate a report based on sites called 'Theatre' from ALL of the tree view.

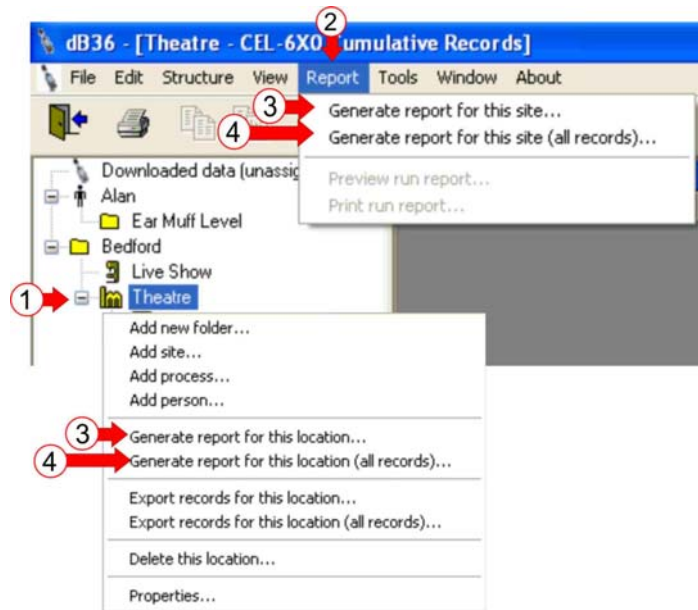


Figure 44 Generate Multiple Reports

C. THE REPORT WIZARD (Refer to Figure 45)

Once the selection detailed in Figure 45 has been made, 'Step 1' of the Report Wizard will be displayed.

STEP 1 – This window allows the data to be sorted by Site, Location, Person and Process as appropriate (A). The data can be arranged in ascending or descending order (B). Tick the *Break on change* box (C) to add a page break. Once the relevant selection has been made, press **Next** (D) to move on to Step 2.



Figure 45 Report Wizard Step 1

STEP 2 – This window allows selection of the cumulative data to be included in the report.

As a default setting, the current cumulative view (Refer to Chapter 8 Section A) will be used.

Click on the drop down menu to select a Data Type (A).

Check the boxes (B) to select the data to be displayed.

Click and drag the fields up or down the list (C) to arrange the order of displayed data.

Click **Cancel** (D) to close the Report Wizard without saving changes.

Click **Prev.**(E) to go back to the Previous screen.

Click **Next** (F) to continue to Step 3.

Click **Finish** (G) to end the process.

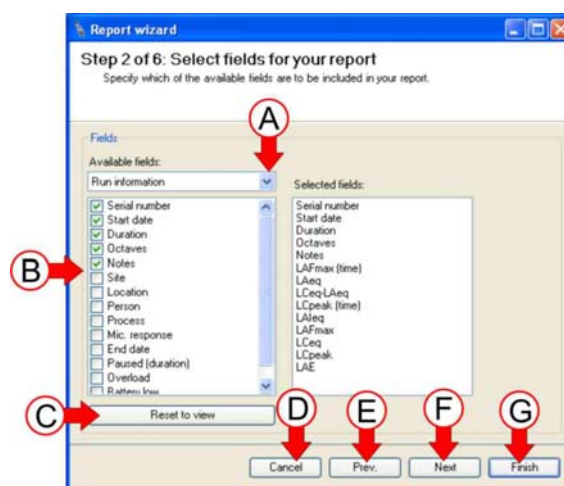


Figure 46 Report Wizard Step 2

STEP 3 - Step 3 of the Report Wizard allows the selection of the Octave Data for your Report.

HB3342-01

Select format of the Chart (A).

Check this box (B) if the report must include records with no Octave Data.

Click **Cancel** (C) to close the Report Wizard without saving changes.

Click **Prev.**(D) to go back to the Previous screen.

Click **Next** (E) to continue to Step 4.

Click **Finish** (F) to finish the process.

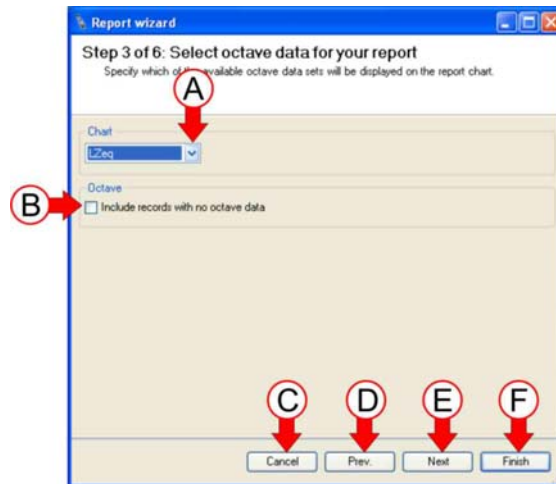


Figure 47 Report Wizard Step 3

STEP 4 - Step 4 of the Report Wizard allows the date range of reports to be selected.

A. Dates – Include all Dates: The date selectors in paragraph (B) are disabled. All stored reports will be included in the reports.

Specify Dates: Check this box to enable date selectors in paragraph (B).

B. Select dates – Use the drop down menu to select a date ‘From’ and a date ‘To’. All reports generate between these two dates will be included.

C. Click **Cancel** to close the Report Wizard without saving changes.

D. Click **Prev.** to go back to the Previous screen.

E. Click **Next** to continue to Step 5.

F. Click **Finish** to end the process.

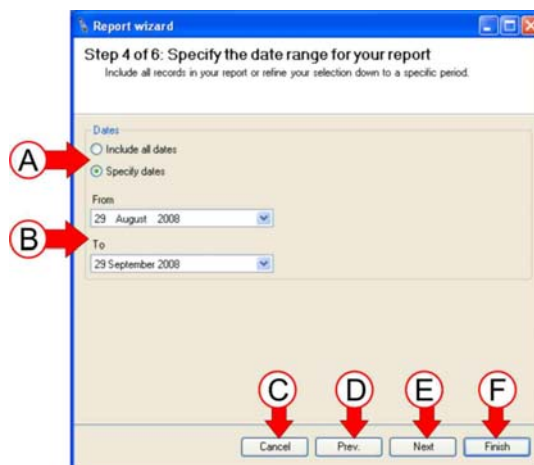


Figure 48 Report Wizard Step 4

STEP 5 – Step 5 of the Report Wizard allows customisation the pages of the reports.

If check boxes A, B, C and D are checked the customisation facility is disabled and the default Header and Footer will be added to the report pages.

Page Header

Line 1: Enter the Header (A).

Line 2: Add secondary Header information (B).

Logo: Click the check-box to accept the Logo offered or use the Browser (C) to load the logo stored in memory.

LOAD A LOGO

- (1). Click the Browser button (C).
- (2). A browser window is displayed showing the paths available to locate stored logos.
- (3). Navigate the browser to locate file / folder with the stored logos.
- (4). It may be necessary to select All Files form the File Type drop down menu.
- (5). Select the preferred Report Logo and click the Open button to load the selected logo into the Report Wizard.
- (6). When the logo is loaded, click **Next** to continue to step 6.

Page Footer

Line 1: Enter the Footer details (D).

- E. Check this box to add page numbers.
- F. Click **Cancel** to close the Report Wizard without saving changes.
- G. Click **Prev.** to go back to the Previous screen.
- H. Click **Next** to continue to Step 6.
- I. Click **Finish** to end the process.

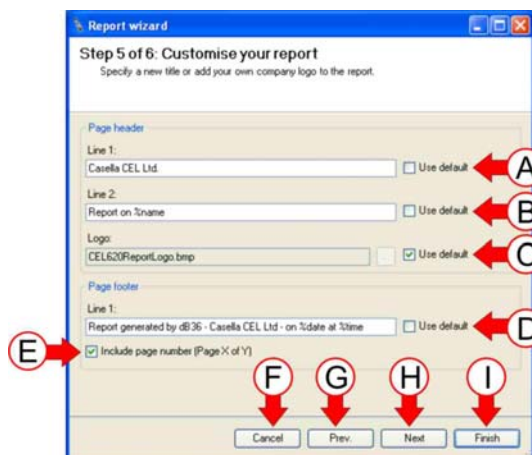


Figure 49 Report Wizard Step 5

HB3342-01

STEP 6 – Step 6 of the Report Wizard gives the options to view the Reports or to Print the Reports.

- A. Print Preview / Print: Check a box to select Print Preview or to Print the reports.
- B. Click **Cancel** to close the Report Wizard without saving changes.
- C. Click **Prev.** to go back to the Previous screen.
- D. Click **Finish** to end the process.

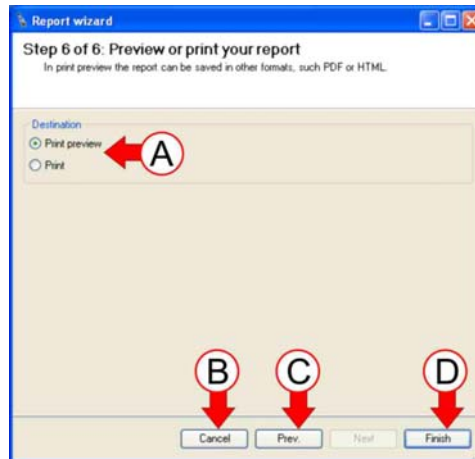


Figure 50 Report Wizard Step 6

The quantity of data used in the report will determine the time taken to generate the report. During the preparation time a window will be displayed (Refer to Figure 51).

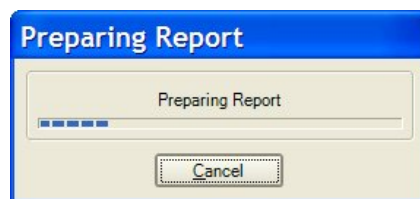


Figure 51 Preparing Report

D. EXPORTING REPORTS (refer to Figure 52)

When the **Print Preview** option is used as shown in Figure 50, reports can be exported in other formats.

EXPORT – Press the drop down menu button (A). Select an export format (B). The Export Settings window (C) is displayed. Make the appropriate selections on the Export Settings window and press **OK** (D).

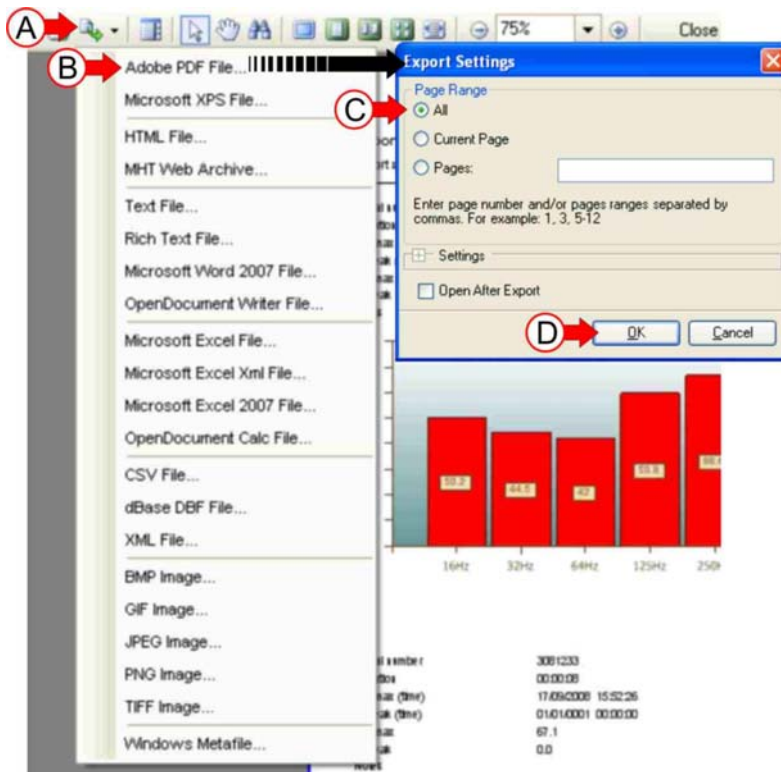


Figure 52 Exporting Reports

Back to [Index](#)

13. BACKING UP AND RESTORING THE DATABASE

BACKING UP THE DATABASE

It is recommended that the dB36 database be regularly backed up to prevent loss of important data.

The following procedure details the method of backing up the dB36 database.

Select **Tools** (A). Select **Database** (B) from the drop down menu. Another drop down menu is displayed. Select **Backup database** (C).

The Backup Database window is displayed. Press **Browse** (D) to select a location and filename to which the database will be backed up to. Press **Backup** button (E) to start. A dB36 window is displayed asking for confirmation the correct database is being backed up. If the selection is correct, click **Yes** (F).

The database backup will begin. The progress can be monitored in the “Progress” box in the Backup Database window. When backup is complete a message will be displayed asking for acknowledgement. Click **OK** (G) to complete the procedure.

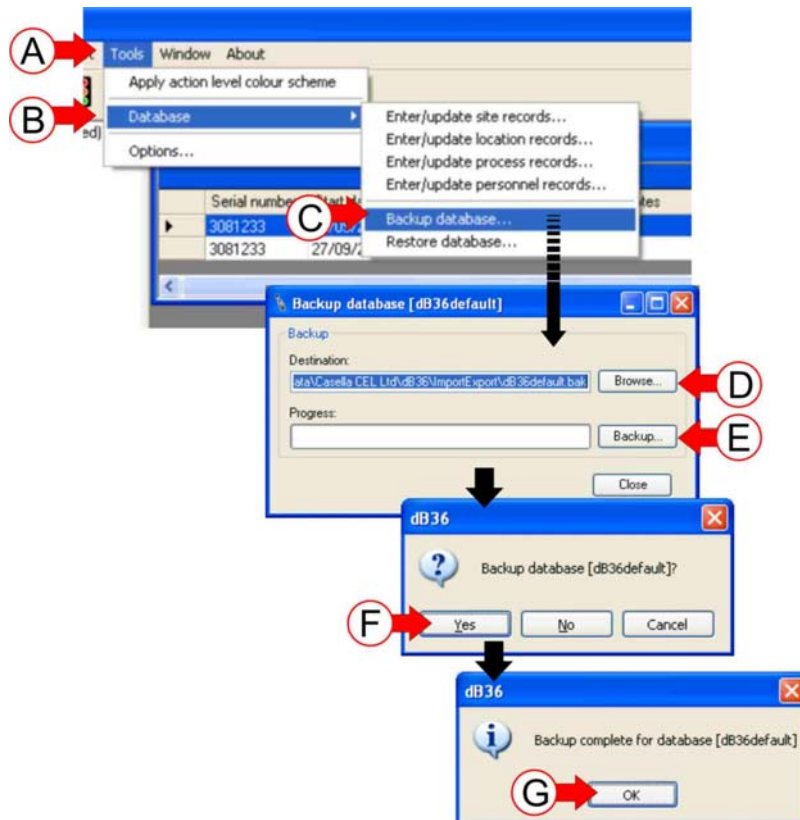


Figure 53 Backing Up the Database

RESTORING THE DATABASE

During this procedure a previously backed up database is loaded into dB36.

WARNING: This operation will overwrite ALL existing data within the dB36 application.

The following procedure details the method of restoring the dB36 database.

Select **Tools** (A). Select **Database** (B) from the drop down menu. Another drop down menu is displayed. Select **Restore database** (C).

The Restore Database window is displayed. **Browse** (D) to locate the database to back up and press the **Restore** button (E).

A confirmation window is displayed. If the selection is correct, click **Yes** (F).

A dB36 window alerts the operator that dB36 is ready to restore the selected database. Click **Yes** (G) to continue.

The database restore will begin. When Restore is complete, a message will be displayed asking for acknowledgement. Click **OK** (H) to complete the procedure.

Note: dB36 must be restarted following a database restore.

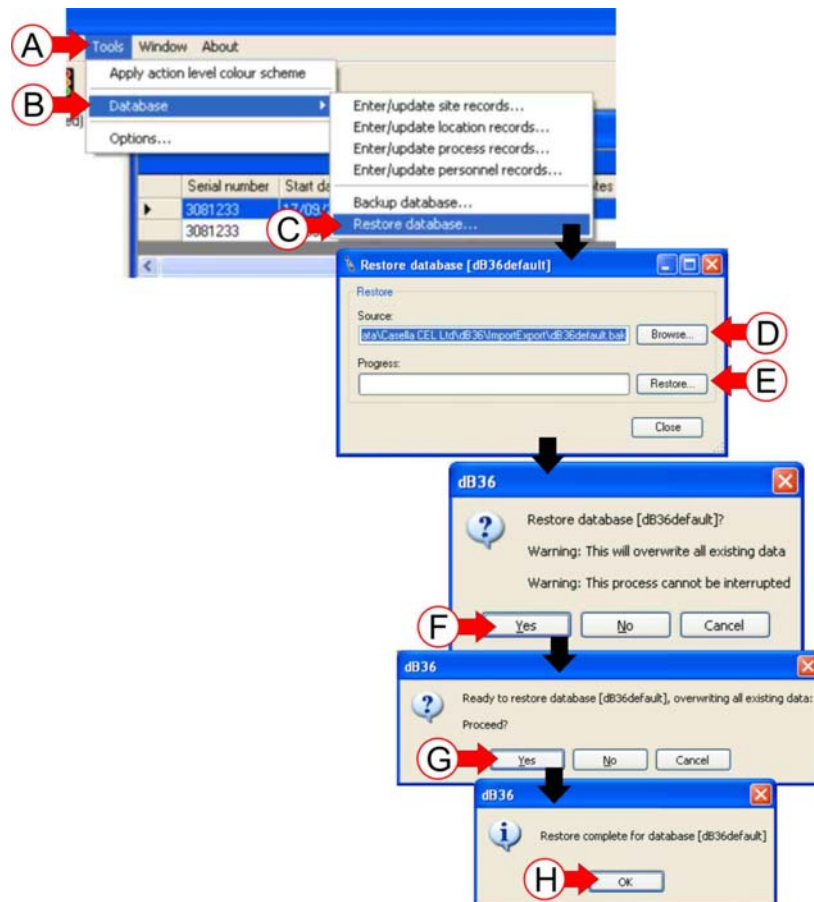


Figure 54 Restoring the Database

Back to [Index](#)

14. EXPORTING AND IMPORTING DATA

Exporting and importing data is used to transfer portions of the database, either to other applications or to alternative copies of dB36.

A. EXPORTING FROM THE DATABASE (Refer to Figure 55)

Right-click on the part of the tree view to export, e.g. Bedford (A) and select the relevant Export Option (B).

The Export Wizard (Step 1) will then be shown. Use **Browse** (C) to specify the export location. If required, the file name prefix can be changed from the default value. Press **Next** (D) to continue and go back to the Export Wizard.

Export Wizard (Step 2) offers Export to **dB36** or **Other** (F). Check the box for the required format and click **Finish** (G). The Export Successful window is displayed. Click **OK** (H) to complete the task.

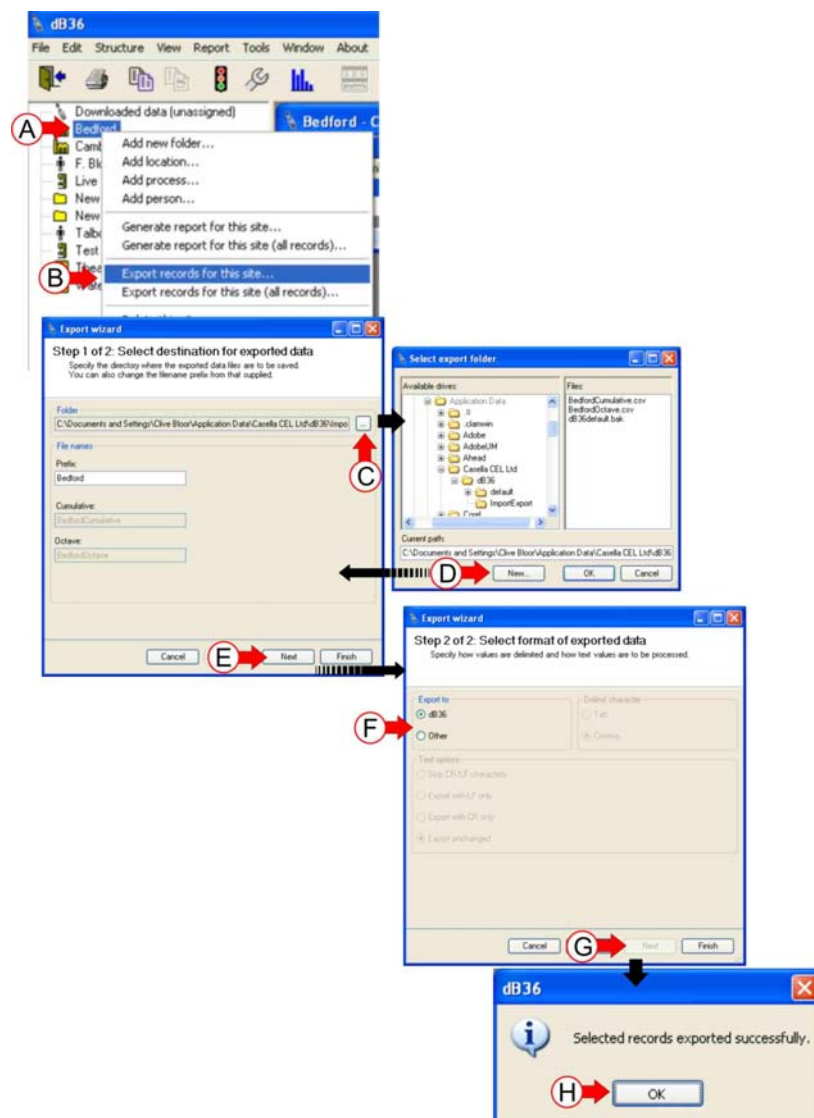


Figure 55 Exporting Data

Back to [Chapter 10](#) Print Preview

Back to [Chapter 10](#) Export

B. IMPORTING TO THE DATABASE

There are 2 sources of data to import into the dB36 database:

1) **IMPORT RUNS.** From run data copied directly to a PC from the CEL-6X0 memory where there will be a .CSV file for each measurement run (see section I within CEL-6X0 manual HB3340).

Right click on the CEL-6X0 (A) icon in the tree view. A drop down menu is displayed. Select Import Runs (B). Select the location of the runs to be imported e.g. (C). When located, press **OK**(D) to continue. Runs can then be individually selected (E), then press **OK** (F).

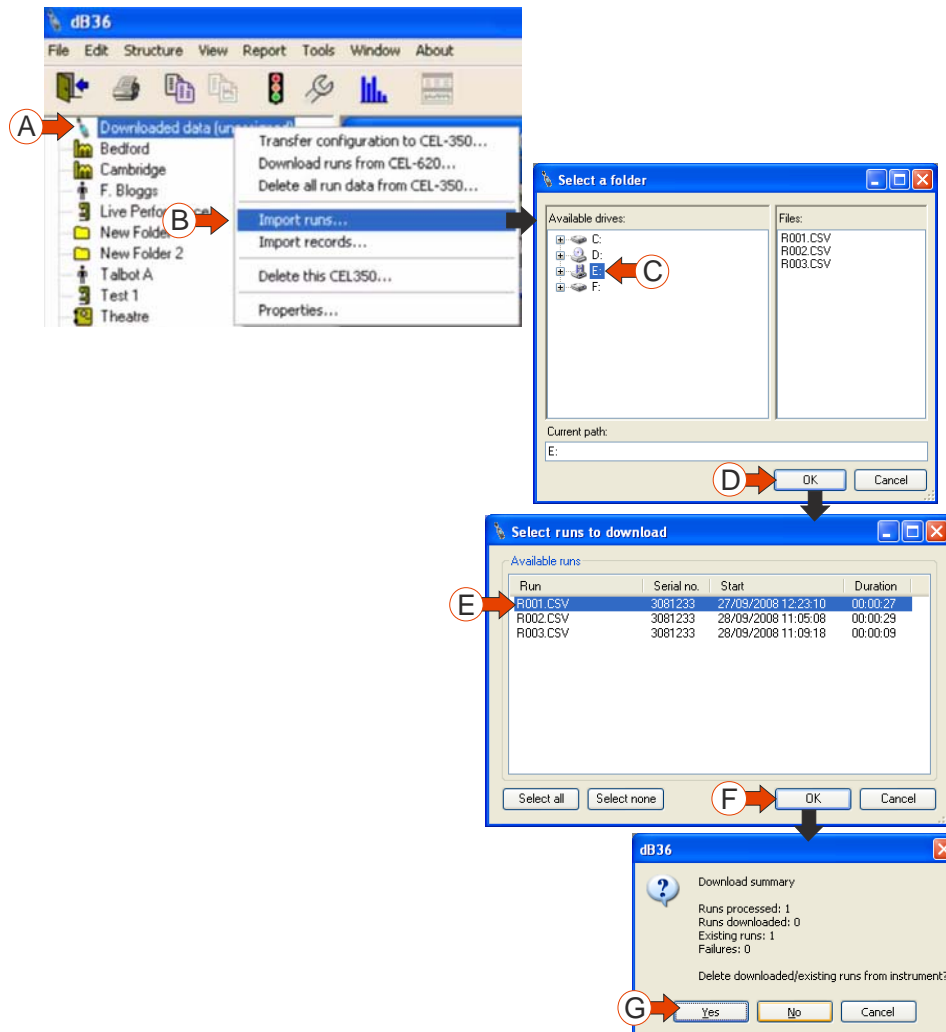


Figure 56 Importing runs to the Database

2) **IMPORT RECORDS.** From data exported from another installation of dB36 as described above in section 14.

Data previously exported in dB36 format can be imported back into dB36. This can be used to exchange data with other dB36 users as required.

Right click on the CEL-6X0 (A) icon in the tree view. A drop down menu is displayed. Select Import Records (B). Then a dialogue box is displayed showing an import wizard. Use the browse button (C) to locate the file to be imported. When located, press **Finish** (D) to continue. Records will then be imported. Any records without persons, locations etc will be displayed in a dialogue box as they are imported, and they should be written down. Then, when the import is complete, it is necessary to create any new references to the tree view as detailed in Chapter 6 Section (A)

HB3342-01

exactly as they appeared in the database they were exported from; otherwise any imported data will not be seen in the tree view.

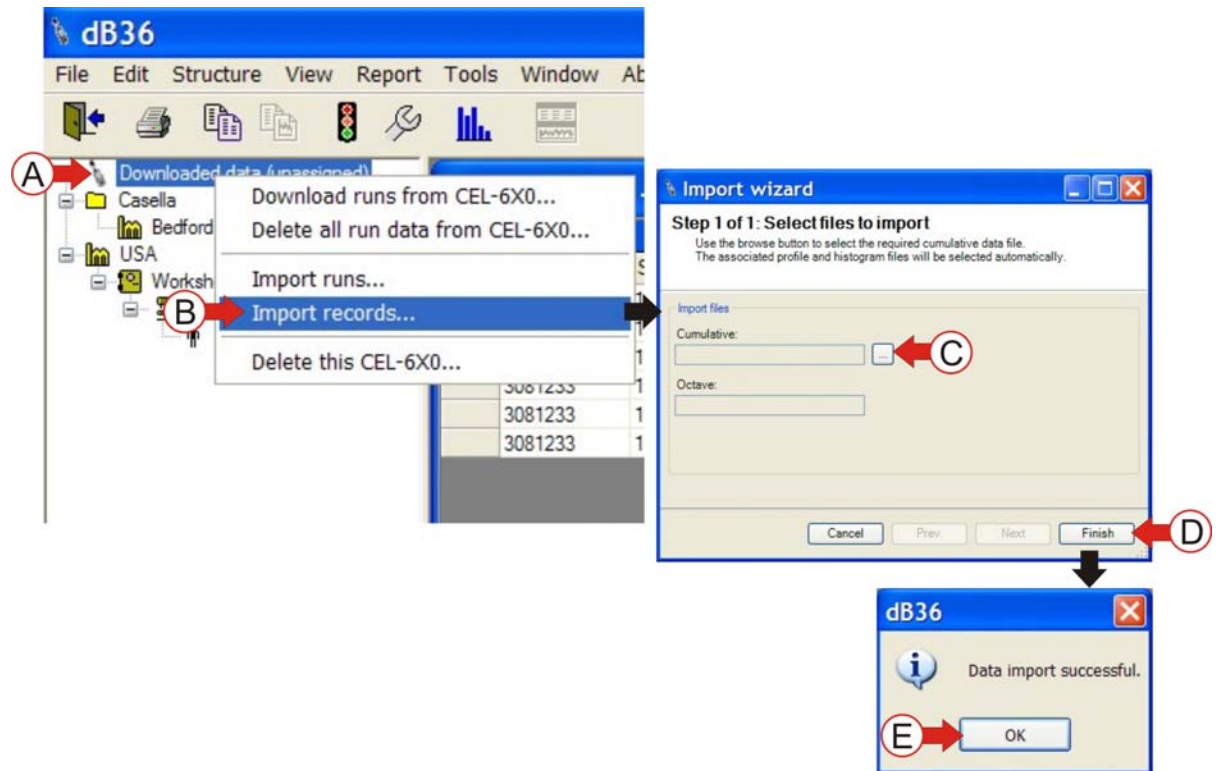


Figure 57 Importing records to the Database

Back to [Index](#)

15 SOFTWARE WARRANTY

The manufacturers undertake to replace any disk containing significant errors that are directly attributable to faulty design or manufacture that make the program unusable, and which become apparent during the warranty period. In order to take advantage of this warranty, the disk or disks must be returned, carriage paid, to the manufacturer's factory or accredited agent. The warranty period runs for three months from the date of receipt of goods.

Casella CEL Ltd's liability is limited to items of their manufacture and they do not accept liability for any loss resulting from the operation of, or the interpretation of results obtained by using this software. All technical information for individual sets of software is filed under the version and issue number given on the installation disks, therefore the version and issue numbers should be quoted in any correspondence concerning this software. In the event of a malfunction appearing during the warranty period, the disk or disks should be returned either to Casella CEL Ltd's local agent or to the Casella CEL Ltd's Customer Services Department at Bedford. Please include the following information:

Instrument type(s), serial number(s) and firmware version number(s);

Customer name and address;

Contact name and phone number;

Details of any PC and software involved, including version number(s);

Reason for returning the equipment with a detailed description of the fault;

List of any error messages that may have been displayed.

Back to [Index](#)