

Vibdata

Professional Vibration Analysis Software

User Manual

Version 1.32

For Use with the Following Casella Vibration Meter

HAVex Vibration Meter

www.casellasolutions.com

Thank you for purchasing the Casella Vibdata software. We hope that you will be pleased with the software and the service that you receive from us. If you do have any queries, concerns or problems, please don't hesitate to contact us:

UK Office Casella

Regent House Wolseley Road Kempston Bedford MK42 7JY

Tel: +44 (0)1234 844100

info@casellasolutions.com

Or specifically for technical support, please contact our dedicated product support line on:

Tel: +44 (O) 1234 847799 Or visit: <u>http://helpdesk.casellameasurement.com</u>

Casella prides itself on providing precision instrumentation since 1799, supplying eminent figures including Darwin and Livingstone. A lot has changed in our long history but what does remain is our commitment to reliable, trustworthy and credible solutions.

Casella's aim is to enhance the long term health and quality of life for workers in high risk occupational sectors and to monitor the impact on the environment through innovative technology, easy to use products and expertise that can be trusted.

For more information or to find out more about Casella, please visit our website at:

http://www.casellasolutions.com

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Minimum System Requirements

- Pentium 4 1.5 GHz or Athlon XP 1500+ processor or higher
- 200MB Free hard disk space
- 256MB Ram
- One free USB Port
- Operating Systems (minimum operating system requirements also apply): -
 - Windows XP SP3
 - Windows Vista SP2
 - Windows 7 32 or 64 bit
 - Windows 8 32 or 64 bit
 - Windows 8.1 32 or 64 bit

Windows 8.1 RT is not compatible with Vibdata.

Contacting Casella

This manual contains complete operating instructions for the Casella software Vibdata, read it carefully and you will quickly become familiar with its features and operation.

If you do encounter problems with the operation of your software please feel free to contact customer support with your enquiry on: -

Telephone:	+44 (0)1234 847799
Website:	http://www.casellasolutions.com
Helpdesk:	http://helpdesk.casellameasurement.com
Email:	info@casellasolutions.com

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Chapter 1

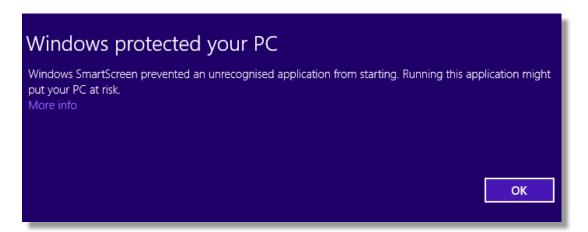
Installing Vibdata

Installation of Vibdata requires full administrative privileges, please seek advice from your IT manager if required.

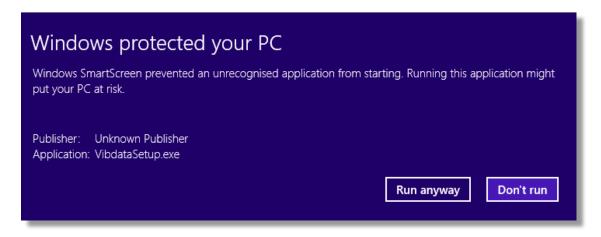
This example shows how to install Vibdata on Windows 8.1, installation on other operating systems will be similar but may show slight variations in screens: -

- 1. Unplug any vibration meter device from the PC or laptop.
- 2. If you have downloaded Vibdata double click the saved file named **VibdataSetup.exe** to start the installation.

Depending on your operating system setup you may be prompted with the message as below: -



Click on the text More info and a new screen will be displayed: -

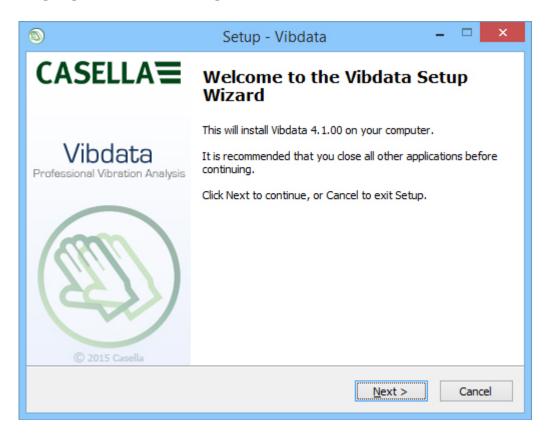


Click **Run anyway** to continue.

- 3. If you have a Vibdata installation USB Flash Drive, insert the drive into a USB port on your computer and double click the file named **VibdataSetup.exe** to start the installation.
- 4. Depending on the operating system setup you may need to allow permission for the application to be installed. Click **Yes** to continue and start the installation.

0	User Account Control ×	
0	Do you want to allow the following program from an unknown publisher to make changes to this computer?	
	Program name: Publisher: File origin:	VibdataSetup.exe Unknown Removable media on this computer
⊘ s	how <u>d</u> etails	<u>Y</u> es <u>N</u> o
		Change when these notifications appear

Click on **Yes** to begin the installation of Vibdata, select the installation language and the following screen will be shown:-



Follow the on screen instructions carefully to install your software correctly.

During the installation of Vibdata the USB device drivers for your vibration will need to be installed: -



Click on Extract to open the Device Driver Installation Wizard.

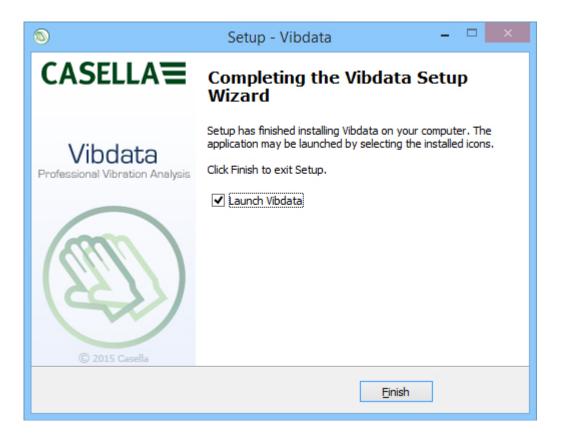


Click on **Next** to start Driver Installation.

Device Driver Installation Wizard	
	Completing the Device Driver Installation Wizard
	The drivers were successfully installed on this computer. You can now connect your device to this computer. If your device came with instructions, please read them first.
	Driver Name Status ✓ FTDI CDM Driver Ready to use ✓ FTDI CDM Driver Ready to use
	< <u>B</u> ack Finish Cancel

When the driver installation is complete the above screen will be displayed.

Click on **Finish** to close the Driver Installation.



Click on **Finish** to complete the Vibdata installation.

5. Your vibration meter may now be attached to a spare USB port on your laptop or desktop PC.

Note that the HAVex instrument must be turned ON

The first time the meter is attached, windows will automatically configure the device for use: -



		×
Device Setup		
Installing HAVe	x Vibration Meter Please wait while Setup installs necessary files on your system. This may take several minutes.]
	Clo	se

When complete your computer will be ready to download data from your vibration meter.

Chapter 2

Vibdata LITE

HAVex instruments are supplied with a free version of Vibdata which has limited functionality.

Every time the software is opened, it will operate with limited functionality in LITE mode until the software has been unlocked. See **Registering** for further details.



This manual describes the functions that are available in the registered version of the software.

Functionality

In Vibdata LITE the following viewing screens are either unavailable or will display Not available in LITE mode: -

- ➢ Exposure Calculator
- Merge / Combine
- Adding Images
- Trend Analysis
- Add New Record

Registering

Vibdata LITE can easily be unlocked by entering a valid Unlock Key Code which can be purchased at any time.

If or when you have purchased Vibdata you can unlock the software using the 3 Step Procedure below.

Please note that the Encryption Code provided in Step 1 is randomly generated, therefore if the software is removed and installed either on the same PC or another PC you will need to repeat all the steps outlined below.

Step 1

Copy the Encryption Code from the 'Enter KeyCode' screen. This displays each time Vibdata LITE starts, or alternatively it can be opened by selecting '**Help**', '**Licensing...**' from the toolbar menu.

۲	Enter KeyCode 🛛 🗕 🗙	
to purch	ntly using Vibdata LITE. If you have already, or would like ase the full version, then please contact Casella on:- +44 (0) 1234 844100 To continue using Vibdata LITE, click Close info@casellasolutions.com	
Encryption Cod Key Code	Encryption Code LLPCKCGJZI Key Code	
	Get Key Code Activate Close	

Step 2

Click on **Get Key Code** and enter the required fields to obtain your Key Code immediately. Please note an internet connection is required.

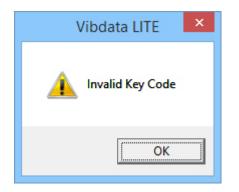
Alternatively please contact Casella on +44 (0) 1234 847799

Entered details will be validated and a valid Key Code will be issued.

Enter the issued Key Code in the blank Key Code cell and press 'Activate'.

All Unlock Key Codes must be entered in **UPPER CASE**.

If the entry is not valid then the following will be displayed: -



If a valid Unlock Key Code is entered the following will be displayed. Please click '**OK**' and then restart Vibdata for the Unlock Key Code to take effect.

Vibdata
Thank you for purchasing Vibdata. Please restart the application
ОК

Your software is now registered and each time you start the software it will open as Vibdata Pro with no restrictions.



Chapter 3

Connectivity

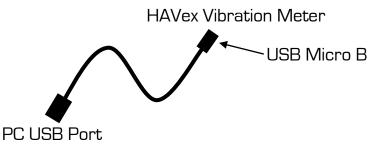
Downloading recorded data from your vibration meter into Vibdata is only possible if you are using the correct cable and the required device drivers are correctly installed during installation of the software.

To download recorded data from your HAVex instrument into Vibdata requires a spare USB port on your desktop or laptop and the installation of the supplied USB device driver which is installed during the installation of Vibdata please see **Installing Vibdata**, **Chapter 1** for more information.

Regardless of your operating system the USB device driver **MUST** be installed to allow communication between your HAVex instrument and your PC.

If the incorrect device driver or no device driver is installed then your instrument will not download.

Ensure your instrument is powered \mathbf{ON} and then connect the supplied USB cable as shown below: -



The instrument is now ready for downloading data into Vibdata.

Please be aware of the Auto Shutdown feature on the HAVex instrument if no keys have been pressed for 10 minutes. Download will not occur if this feature has been activated.

Chapter 4

Getting Started

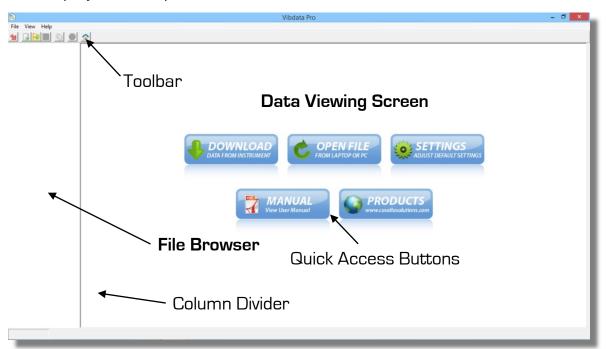
Vibdata can be run using either of the two options below: -

- 1. Double click on the desktop icon or single click on the quick launch icon, both of which are named **Vibdata**. Note these shortcuts are only available if selected during the installation process. Quick launch on Windows 7 or above will need to be turned on, alternatively simply pin the desktop icon to the taskbar.
- On Windows 7 or below click the 'START' button and select 'All Programs', choose the folder 'Vibdata' and finally select the application 'Vibdata'.

On Windows 8 or above, press and hold the **Windows** key on the keypad then press **S**. Type **vibdata** in the search bar and then select the application **Vibdata**.

Opening Home Screen

The display area is split into two sections.



The left hand column named the 'File Browser' will display details of any file opened within Vibdata.

The right hand area named the '**Data Viewing Screen**' displays downloaded data and instrument information relevant to the recording.

The Home Screen also contains quick access buttons to useful features of Vibdata.

The File Browser or Viewing Screen can be resized horizontally by grabbing and moving the column divider.

At the top left of the screen is the Toolbar which gives quick access to the commonly used functions within Vibdata.

Toolbar Options

The following toolbar options are available (some options listed below require an active file to be open): -

File Menu

Download	Download data from an instrument
New	Create a new blank folder
Open	Open a saved file
Save	Save the current data to a file
Save As	Save the current data to a new file
	specifying a new name
Close	Close the active data file
Close All	Close all the open data files
Print	Print current view
Exit	Close the application

View Menu

Toolbar	Toggle toolbar on / off
Settings	Open the Options window for Vibdata
	settings and user preferences

Help Menu

Vibdata Help Casella Homepage	View the help file Opens Casella's Website in a browser window
About Vibdata	Display the current software version
Update Instrument	Update HAVex instrument firmware

Edit Menu

File Edit View Help File Folder File Edit View Help File Edit View He	Rename Folder Group Folder By nen click on Edit or right click on the folder and described below: -
	Date Location Tool Record Employee Regroup and sort the measurement folder by Date, Location, Tool, Record or Employee

File Edit View Help File Edit View Help HAVex 23/02/15 09:05:21 Employees Click on HAV within the grow type to show the options abo	New Employee up and then click on Edit or right click on HAV ve and described below: -
New	Create new :- • Employee, Tool, Record, Location or Date Depending on Grouped By selection
File View Help New 1 Employees HAV	New Employee Add Picture Copy To Clipboard Rename Employee Delete Employee Print Current View Delete Measurement Copy Measurement Paste Measurement Exclude Measurement Edit Exposure Time Log Information Edit Note

Click on a recording and then click on Edit or right click on the recording to show the options above and described below: -

Create new :-		
 Employee, Tool, Record, Location or Date 		
Depending on Grouped By selection		
Add a picture to file		
Copy selected file data to clipboard		
Rename either: -		
 Employee, Tool, Record or Location 		
Depending on Grouped By selection		
It is not possible to rename by Date		
Delete Individual selection of either: -		
Employee, Tool, Record, Location or Date		
Depending on Grouped By selection		
Print current view		
Delete selected indivdual measurement		
Copy selected measurement		
Paste selected measurement into group		
Exclude / Include selected measurement		
from calculations.		
Enter a new Exposure Time		
Edit		
Copy to Clipboard		
Edit Log Information such as Tool, Employee		
Copy all Log Information to the clipboard		
Add a Note description to the measurement		

Toolbar Buttons



From left to right, the buttons perform faster access to the following common actions: -

- 📁 Download data from an instrument
- 📑 Create a new blank folder
- 🛃 Open a saved file
- 💾 Save selected data to a file
- Copy current view data to clipboard
- 营 Print current view
- A Home Screen

To change user preferences and settings within Vibdata, select '**Settings**' from the '**View**' menu.

Some settings may require a restart of Vibdata to take effect.

General Tab

Settings	<
General Fields Display Criteria	
Program Options Group Downloaded Data By: Tool	
Company Options	
Company Name:	
Logo File:	
Browse	
Working Directories	
Files: C:\Program Files (x86)\Casella\Vibdata\	
Images: C:\Program Files (x86)\Casella\Vibdata\Images	
Browse	
OK Cancel	

Program Options

Group Downloaded Data By:

Select how downloaded data will be grouped. The available grouping methods are by: -

• Employee, Tool (Default), Record, Location, Date

Data can be regrouped at any time if required after it has been downloaded.

Company Options

Company Name:

Enter your company name here.

Logo File:

Browse to the location of your company logo image file which is used when printing documents.

The image size is $170(W) \times 57(H)$ pixels and must be in the .bmp or .wmf format.

Working Directories

Files:

Point to the folder where you wish to open and save your data.

Images:

Point to the folder where you wish to open image files from.

Note that image files are 100(W) * 100(H) pixels and must be in either of the following formats: -

- .jpg
- .bmp
- .gif
- .png

Fields Tab

1	Settings	×					
General Fields Display Criteria							
Measurement Mode	Measurement Mode Hand-Arm Vibration						
Data Format	Screen						
Available Fields Points [15m] Points [1h] Dominant Employee Location Record Tool Serial No. Instrument Version Fac Cal Due Units Mode Integration Range Sensitivity	Add >> No Move Up << Remove Date Move Down Variation Note Y Z OL Vector Sum Max Dur(AV)(rms) Max Dur(LV)(rms) Ai(8) Inc Exp Ai(8) Inc Exposure Points						
	0K Canc						

Use the Fields tab to select which information is: -

- Displayed on screen
- Copied to the Clipboard
- Printed

Use the drop down box labelled $\ensuremath{\textbf{Data Format}}$ to select any of the following options: -

Screen	Select for parameters displayed on screen
Clipboard	Select for parameters copied to clipboard
Print	Select for parameters to be printed

Parameters in the Current Fields list will be displayed, copied or printed.

Highlight items under **Available Fields** and click on to add the parameter to **Current Fields**.

To remove parameters, highlight the item and click on

To change the order in which the parameters are displayed, copied or printed, highlight a parameter in the **Current Fields** list and then use the **Move Up** or **Move Down** buttons to move the selected item up or down the list.

Exposure Points which are not moveable or removable from the **Current Fields** and are always the last parameter in the item list.

Attempts to move Exposure Points will display the following message: -

Vibdata Pro	(
Exposure Points must be the last item in Current Fields and is not moveable.	
ОК]

Attempts to remove Exposure Points will display the following message: -

Vibdata Pro	×
Exposure Points must be selected in Current Fields and cannot be removed.	
ОК	

Display Tab

Settings	×
General Fields Display Criteria	
Graph Chart Options	
Chart Line Width:	
OK Cancel	ī
	_

Display Options

Chart Line Width:

Move the slider to determine the line width used for graphing.

Criteria Tab

1	Settings	x
General Fields Display	Criteria	
Units		
Display Units:	Metric	
dB Reference Value:	e: e*10-5	
Hand Arm Vibration		
Action Value:	2.5 Limit Value: 5	
	OK Cancel	

Use the Criteria tab to change the Action and Limit values as required.

In the UK, The Control of Vibration at Work Regulations 2005 stipulates the following Action and Limit Values: -

Vibration Type	Action Value (m/s²)	Limit Value (m/s²)
Hand Arm	2.5	5.0

Chapter 5

Downloading, Opening and Saving Data

Downloading Data

Please ensure the required drivers have been installed during installation, see **'Chapter 1, Installing Vibdata'** for more information.

Downloading data from your instrument is achieved by connecting your instrument to your PC or laptop via the supplied USB cable, see '**Chapter 3**, **Connectivity**' for more information.

To download the data from your Casella vibration meter, follow the procedure below: -

1. Ensure that the vibration meter is **ON**.

Connect the USB lead to the instrument and to the PC.

2. Select '**Download**' from the File menu or click on the Download icon **1** and Vibdata will attempt communication with your Vibration Meter.

Once the instrument is identified the acquisition of available logs will begin.

۲	Download Progress	×
	Acquiring list of logs	
	Cancel	

3. With acquisition complete a list of all available measurements is displayed.

Select All ClearAll							
HAV - Select the Measurement(s) you wish to download and click DK							
Date	Time	File Name	Mode				
27/02/2015	13:23:41	example1					
27/02/2015	13:25:47	example2					
27/02/2015	13:27:19	example3					

Available measurements can be sorted by clicking on the field name.

Sorted fields are identified by having the symbol '>' at the left of the field name. Reverse the order by clicking on the field name again.

The image below shows reverse sorting by **File Name**.

	\backslash		
٢		Download Data	×
<u>S</u> elect All <u>C</u> learAl			
HAV -		Select the Measurement(s) you wish to download and c	ick OK
Date 27/02/2015 27/02/2015 27/02/2015	Time 13:27:19 13:25:47 13:23:41	>File Name Mode example3 example2 example1	
✓ Merge Folders	✓ Combine Logs		OK Cancel

Field Names

4. Select which measurements are required by clicking in individual tick boxes or by selecting 'Select All' and then choosing Measurements or Hand-Arm Vibration.

۵		Download Da	ta		×				
Select All ClearAll									
Measurements		Select the Measurement(s) you wish to download and click OK							
Hand-Arm Vibra	ition	>File Name	Mode						
27/02/2015	13:23:41 13:25:47 13:27:19	example1 example2 example3	,						
Merge Folders	🗸 Combine Logs			ОК	Cancel				

		Download D	ata							
Select All <u>C</u> learAll										
HAV -	Select the Measurement(s) you wish to download and click OK									
Date	Time	File Name	Mode							
27/02/2015	13:23:41	example1								
27/02/2015	13:25:47	example2								
27/02/2015	13:27:19	example3								
Merge Folders	🔽 Combine Logs			OK Cancel						

5. Select or Deselect Merge Folder and / or Combine Logs using the tick boxes.

Selecting **Merge Folders** will place the data to be downloaded into the active folder that is open in Vibdata. If no folder exists or if this option is not selected then the data will be downloaded into a new folder.

Selecting **Combine Logs** will combine each measurement of the same name and of the same type into one measurement.

0		Download Da	ta	×
Select All ClearAll				
HAV -		Select the Meas	urement(s) you wish to download and click OK	
Date	Time	File Name	Mode	
27/02/2015	13:23:41	example1		
27/02/2015	13:25:47	example2		
27/02/2015	13:27:19	example3		
1				
🔽 Merge Folders	🔽 Combine Logs		OK	Cancel

6. Once all preferences have been selected, press the **OK** button to start the data download from the instrument to Vibdata.

Error Messages

If Vibdata does not receive a response from your instrument then you will be shown the following error messages: -

Vibdata Pro	×
Vibdata Pro Failed to Connect to Your Instrument. Please Ensure Your Downloa Cable is Connected and Try Again.	d
0	

If this occurs please see '**Chapter 3**, **Connectivity**' for instructions on connecting your instrument.

If an instrument is detected but no files have been recorded then the following message is displayed: -

Vibdata Pro	×
No files exist on the Host Instrument. Please create some recordings and try again.	
OK	

If this occurs please create some recordings on the instrument.

Opening Data

To open a saved data file choose '**File**', '**Open**' or click the Open File 🛃 icon.

8	Open D	Datafile		×
🐑 🏵 🔻 🕇 🚺 « C	asella 🕨 Vibdata 🕨 Examples	~ Ċ	Search Examples	Q.
Organize 🔻 New fold				
🔆 Favorites	Name 🔹 🔻	Date modified	Type Size	
🝊 OneDrive	HAVex Sample.cd5	25/02/2015 14:41	CD5 File	3 KB
🖳 This PC				
두 Network				
File <u>r</u>	ame:	~	Casella Linear Vibration Da	ta Fil ∨ ncel

The initial default location for file storage is found under **Working Directories** from the **General tab** of **Settings**, this location can be changed if required, however Vibdata remembers the last folder location used enabling fast folder access.

To open the selected file double click on it or highlight it by a single click of the mouse button and then click on the **'Open'** button.

Saving Data

To save data to a log file choose '**File**', '**Save As**' or click the Save 🛅 icon.

9	Save E	Datafile			×
🔄 🌛 🔹 🕇 📕 « 🤇	Casella → Vibdata → Examples	~ C	Search Examples		,o
Organize 👻 New fol	der			-	0
🔆 Favorites	Name	Date modified	Туре	Size	
💪 OneDrive	HAVex Sample.cd5	25/02/2015 14:41	CD5 File		3 KB
🌉 This PC					
🗣 Network					
File <u>n</u> ame:					~
Save as <u>t</u> ype: Case	ella Linear Vibration Data Files (*.co	d5)			Ý
Alide Folders			<u>S</u> ave	Cance	el

The initial default location for file storage is found under **Working Directories** from the **General tab** of **Settings**, this location can be changed if required, however Vibdata remembers the last folder location used enabling fast folder access.

Enter a file name and then click on the '**Save**' button.

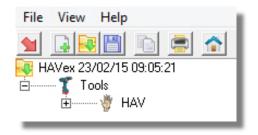
Once a file name has been specified quick saves are possible using the Save icon icon icon 'File', 'Save'. To specify a new name, where required, use 'File', 'Save As' again.

File Browser

The File Browser is located at the left hand side of the screen. It is used to select which information is displayed in the Data Viewing screen.

The example below describes how to use File Browser: -

i. Open or download a file.

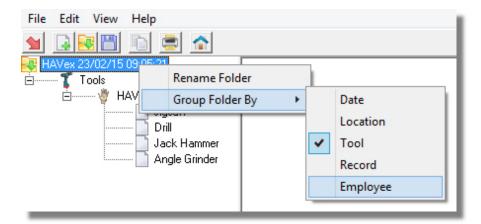


ii. Click on the '+' to the left of the vibration type icon to display the downloaded or saved file information.



Click on the file you wish to view which will then appear in the Data Viewing Screen. By default all files are grouped by Tools, this can be changed under Settings.

To regroup an open file, right click on the folder name and choose '**Group** Folder By': -

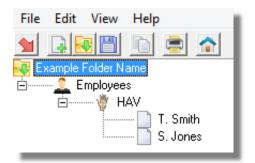


Group By Date:-Group By Location:-File Edit View Help File Edit View Help 🗣 💽 **S** HAVex 23/02/15 09:05:2 R HAVex 23/02/15 09:05 Locations ė. 🗄 🔤 📆 Dates 🗄 ------ 谢 HAV 🗄 ------ 🖑 HAV Workshop 23/02/15 Road Crew Group By Record:-Group By Employee:-File Edit View Help File Edit View Help 멷 🔒 尾 📳 1 **1** HAVex 23/02/15 09:05 R HAVex 23/02/15 09:05: 1 🗄 💮 📎 Records Employees 🗄 ------ 🖑 HAV 🗄 ------ 🖑 HAV 2 T. Smith 1 S. Jones

It is also possible to rename folder names by right clicking on the folder name and selecting '**Rename Folder**'.

Rename folder name	×
Enter a new name for this folder.	OK Cancel
HAVex 23/02/15 09:05:21	

Enter the new name and press Ok. The renamed folder will be now be displayed: -

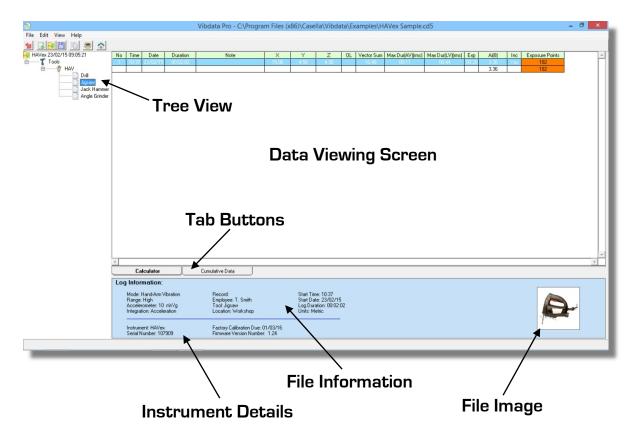


Chapter 6

Using Vibdata

Data Viewing Screen

The Data Viewing Screen is the main area at the right hand side of the screen which shows the recorded data for the chosen file in the tree view.



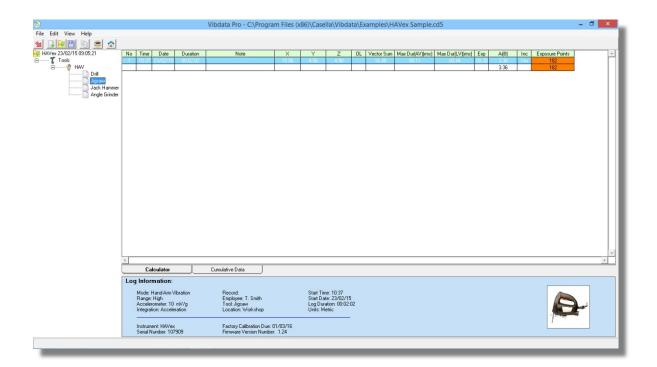
The following selectable tab buttons are at the bottom of the viewing screen: -

- Calculator
- Cumulative Data
- Trend Analysis (if more than one recording is grouped)

Click these to change the display in the data viewing screen.

The **Calculator** tab displays the calculated variables selected under '**Options**', '**Fields**' for the recording selected and is always available for any recording.

Where multiple entries exist, click on the entry to highlight it. The instrument details, file image and file information will be shown. The data for the selected file will also be shown when viewing different screens in the data viewing area.



Exposure Points

The vibration exposure point system is based on the UK's Health & Safety Executive's system where vibration magnitude and exposure time are given in exposure points rather than ms^2 .

Partial exposure points of merged recordings are added together to produce a total points exposure for a working day.

Partial points are displayed by default, Points(1hr) and Points(15m) will need selecting in order to be displayed, copied or printed. See **User Preferences** and **Vibdata Settings** under **Chapter 4** for more information.

9					Vi	ibdata l	Pro - C:\	Program	n Files ((86)\Ca	sella\Vi	bdata\	Exam	ples\H	AVex San	nple.c	:d5						- 6	×			P	artia	al
File Edit View Help																											_		
1 28 1																										-	Ηx	posu	re
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Each recording and the total exposure points are colour coded using the following criteria: -

Hand Arm

>0 & <100	GREEN
>=100 & <400	ORANGE
>= 400	RED

Whilst on the Calculator screen it is possible to use the extremely powerful drag and combine feature of Vibdata.

Click and hold the left mouse button on the data you wish to drag, the mouse will switch from an Arrow to a Pointed Hand.

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Keep the mouse button down and move the Hand over the area on the Tree View where you wish the data to be placed then release the mouse button.

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Data items such as Units, Type or Date must match to perform the requested operation.

If the drag is not possible then Vibdata will automatically place the data in the correct location, creating folders as and where required.

The overall combined A(8) and Exposure Points are then calculated on each recording that is in the calculator screen.

To view cumulative data use the **Cumulative Data** tab.

The cumulative data is a single overall figure calculated or measured over the measurement period for each available axis.

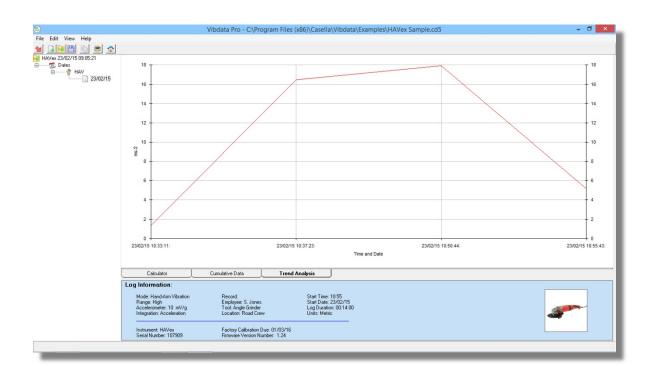
Individual data for recordings that have been combined can be viewed but are selected at the calculator screen. The information from the **Calculator** screen for the selected log is displayed at the top of the **Cumulative Data** screen to easily identify which recording is selected.

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Combined recordings allow a **Trend Analysis** tab to become available.

Use this tab to plot graphically the cumulative average for each individual recording within the combined set.

The plot is graphed in the order the list is displayed in the **Calculator** screen (Time and Date) and is extremely useful for machine monitoring.



Chapter 7

Customer Support

Warranty and After Sales Service

In the event of a fault or problem occurring with your software during the warranty period, the software should be returned to Casella. Please enclose a clear description of the fault or symptom.

Details of the warranty cover are available from Casella or an authorized agent.

Should you have any queries regarding the use of the software or wish to suggest future improvements or additions then please feel free to contact us.

Tel: +44 (0)1234 844100

info@casellasolutions.com

Or specifically for technical support, please contact our dedicated product support line on:

Tel: +44 (0) 1234 847799 Or visit: <u>http://helpdesk.casellameasurement.com</u>

For warranty or service please return your software to: -

The Service Department Casella Regent House Wolseley Road Kempston Bedford MK42 7JY

During the one year warranty period of your software, upgrades or bug fixes will be issued free of charge whenever they become available.

Disclaimer

Whilst every effort is made to ensure the accuracy and reliability of both the software described and the associated documentation, Casella makes no representation or warranties as to the completeness or accuracy of this information.

Casella assumes no responsibility or liability for any injury, loss or damage incurred as a result of misinterpreted or inaccurate information.

Any documentation supplied with your product is subject to change without notice.

Software Details

For your records and for future correspondence with Casella regarding your instrument, please complete the following details: -

Software Version

Serial Number

Purchase Date