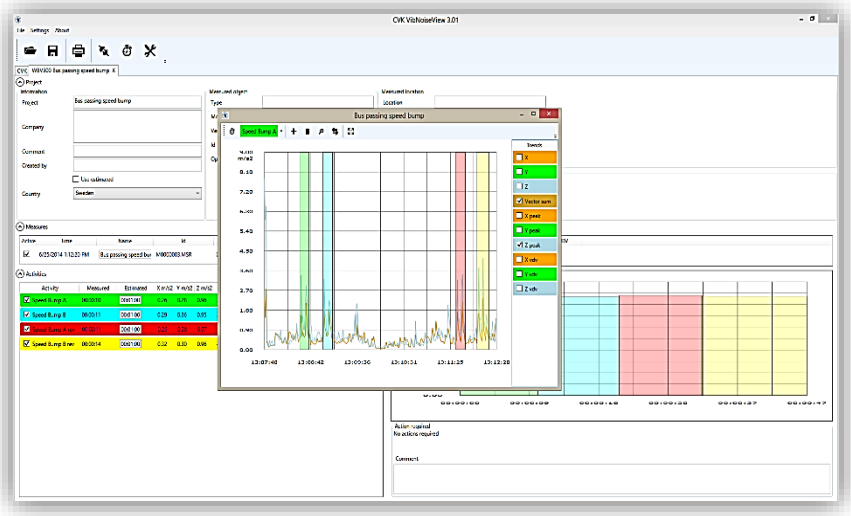
CVK VibNoiseView 3.0



- Import and manage measurements from CVK products. Data export to text format is possible.
- Perform different analysis as RMS, 1sec RMS, VDV and Peak.
- Cut and trim measured data.
- Synchronize data from CVK products.
- Create exposure reports.
- Store measured data and create projects.

Terms and Conditions

CVK VibNoiseView 3.0 ™ is a measurement analysis software for hand and arm vibration (HAV), Whole body vibration (WBV) and Noise in accordance to ISO 5349, ISO 2631-1, requirements of 2002/44/EG, and ISO 60491, requirements of 2003/10/EG. The software is compatible with windows 7 and 8.

Before installation, please make sure that you have approvement from computer administration and right to install this software onto the computer. User license is included in instrument package.

To be able to have software updates and support, the support license purchase is needed.

Recommendations

- Do backup of important data before installation.
- Close all programs before installation.

Installation guide

Run the CVK VibNoiseView 3.0 setup-file provided. This will install the necessary files to the computer and create a start menu icon.

When the CVK VibNoiseView setup is launched:

1. The serial number will show up in License window.
2. In order to receive the License key, please provide your supplier with the serial number.

OBS! *Without License key, the software can be used for 10 days.*

3. Once entered the license key; the software is activated.

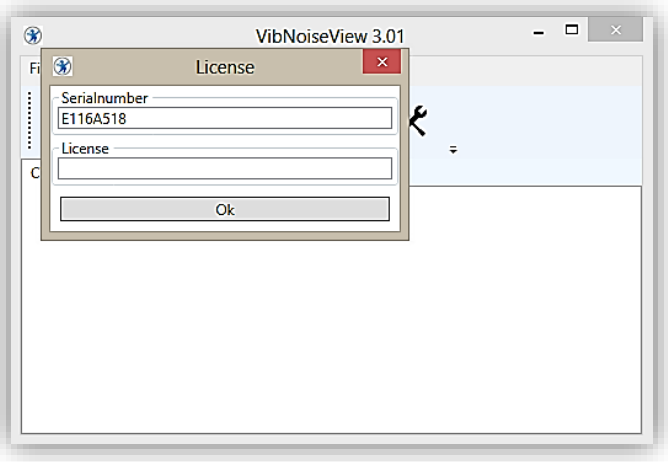


Figure1: VibNoiseView Start- up

Acquire Data from HealthVib WBV

First, run the software; VibNoiseView and connect unit to computer using USB cable:

1. Open a New HAV/WBV/Noise measure from ‘File’ menu.
2. Click on ‘Connect’ button on top of the main window or Select ‘Read from hardware’ from ‘File’ menu to import the measurements.

Functions – CVK VibNoiseView 3.0

CVK VibNoiseView 3.0 main functions:

1. Manage and store measurement files in the file management window. Export data as .txt-file or .xls-file.
2. Cut, trim and organize measurements in the graph window.
3. Create, activities in the Activity list and calculate exposure using measured or estimated exposure time.
4. Print or save report by using report button.

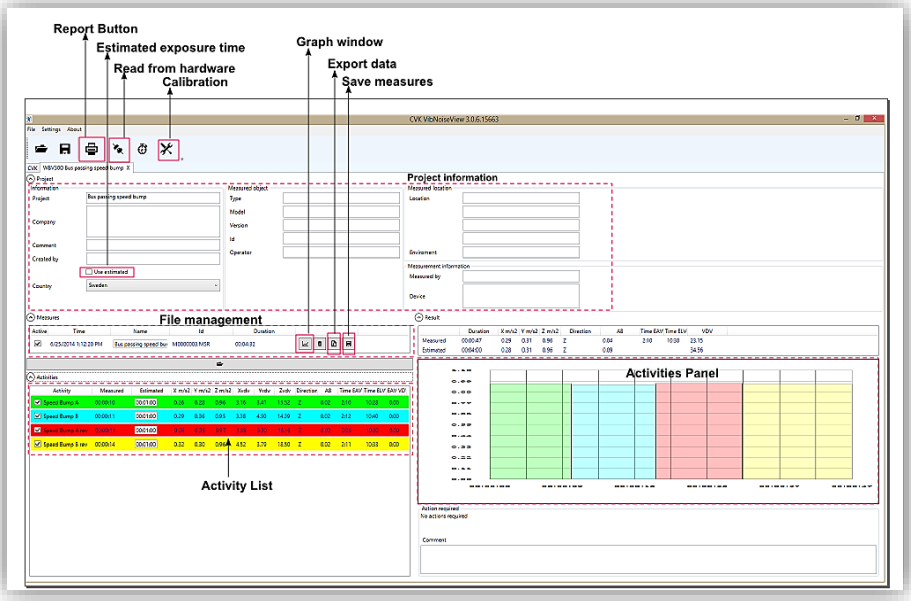


Figure2: VibNoiseView OverView

File management

In *file management window* all measurement files are shown. Date, time, name, duration and ID file numbers are found and names can be altered in *Name* panel.

There are three options for each measurement file:

Graph window, Delete file, export file.

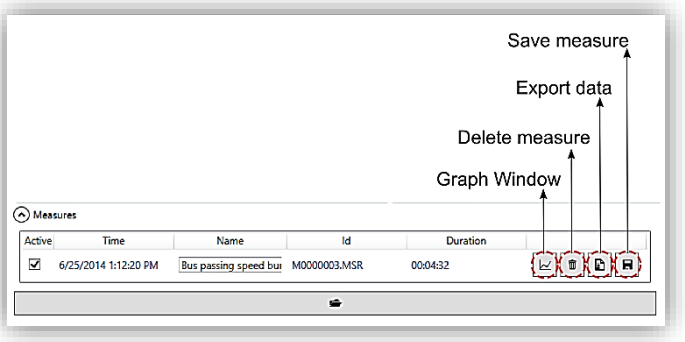


Figure3: VibNoiseView File management

In graph window; activities are found and can be created.

It is possible to delete each measurement file by using ‘Delete’ button and export data to other file formats such as excel or text file.

Activity List

In activity list, different activities are presented. Different activities are created in the graph window, popping up when pressing the graph window button.

Marked activities in created activity list will be included in report and calculations.

Measured exposure time is the default but estimated exposure time can be used by selecting ‘’use estimated’’ box in ‘’project information’’ window.

Estimate time

Different activities can also be time estimated by choosing “*use estimated*”. By this it is possible to calculate vibration exposure i.e. when using different machines during different exposure times. It is also possible to recalculate allowed exposure time.

Graph window

In graph window; chosen file is displayed. There are tools for zoom in/out, pan and creating activities, cut and trim measurements. And activity is created in activity list.

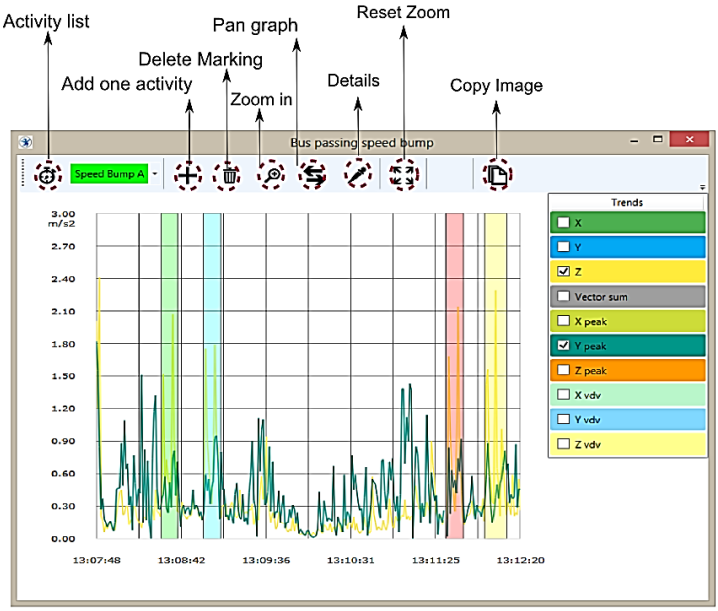


Figure4: Graph window

Graph- Zoom, and manage data

a) It is possible to choose to display R.M.S (X, Y, Z, and Vector sum), Peak (X, Y, Z) and VDV (X, Y, Z) values by checking them on the left side of the graph window.

b) To define activity(s) in each measurement graph

1. Choose activity panel by clicking on  .
2. It is possible to rename, add, and choose different colors for activities (please see figure 5&6).

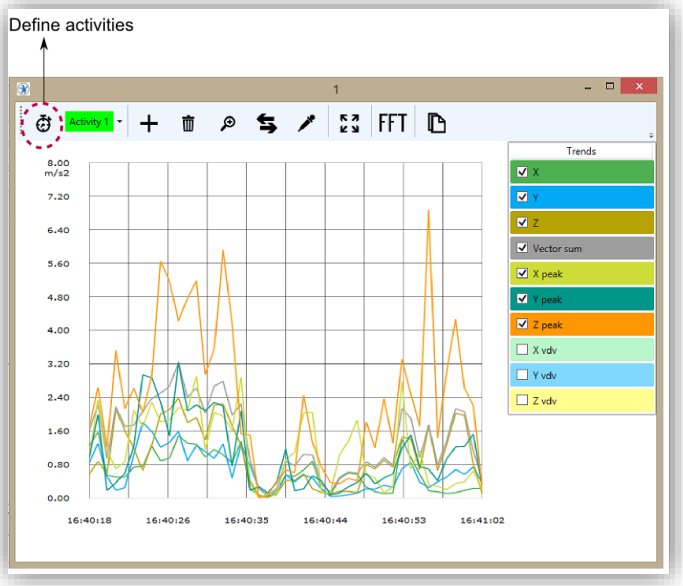


Figure5: Graph window- Define activities

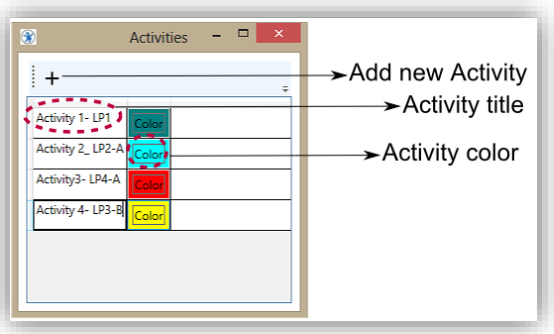


Figure6: Define and/or add new Activities

c) To select area of each activity in the graph;

1. Select the activity you are interested from top of the graph window.
2. In graph window; select “add activity” by clicking on 

3. Drag and mark the area. (See figure4)

Note! *It is possible to select the whole measurement as only one activity.*

d) To delete area(s) of each activity in the graph;

1. In graph window; select “delete activity” by clicking on 

2. Select the marked area to delete it.

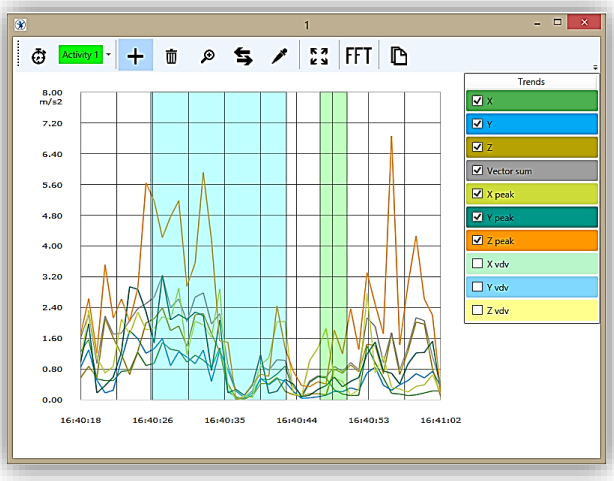


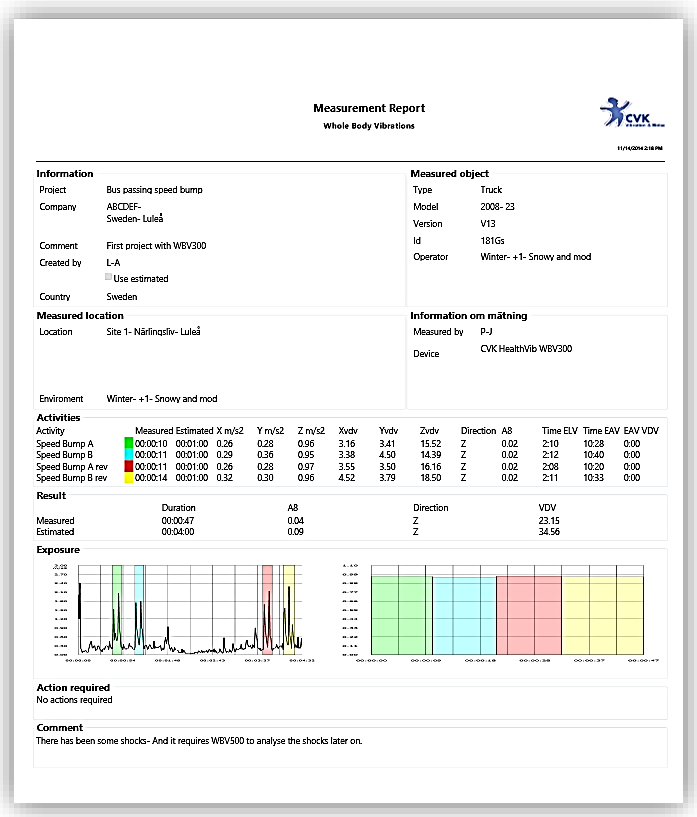
Figure7: Graph window- With 2 activities defined.

Analysis methods

Different analysis methods can be chosen depending on the vibration characteristics- *RMS, VDV, and Peak.* By this, it is possible to calculate vibration exposure in accordance to ISO 2631.

Report

Report can be printed or saved as pdf.



Measurement Report

Whole Body Vibrations

11/14/2014 2:18 PM

Information

Project	Bus passing speed bump
Company	ABCDEF- Sweden- Luleå
Comment	First project with WBV300
Created by	L-A Use estimated
Country	Sweden

Measured object

Type	Truck
Model	2008- 23
Version	V13
Id	181Gs
Operator	Winter- +1- Snowy and mod

Measured location

Location	Site 1- Närlingsliv- Luleå
Enviroment	Winter- +1- Snowy and mod

Information om mätning

Measured by	P-J
Device	CVK HealthVib WBV300

Activities

Activity	Measured	Estimated	X m/s2	Y m/s2	Z m/s2	Xvdv	Yvdv	Zvdv	Direction	A8	Time ELV	Time EAV	EAV VDV
Speed Bump A	00:00:10	00:01:00	0.26	0.28	0.96	3.16	3.41	15.52	Z	0.02	2:10	10:28	0:00
Speed Bump B	00:00:11	00:01:00	0.29	0.36	0.95	3.38	4.50	14.39	Z	0.02	2:12	10:40	0:00
Speed Bump A rev	00:00:11	00:01:00	0.26	0.28	0.97	3.55	3.50	16.16	Z	0.02	2:08	10:20	0:00
Speed Bump B rev	00:00:14	00:01:00	0.32	0.30	0.96	4.52	3.79	18.50	Z	0.02	2:11	10:33	0:00

Result

	Duration	A8	Direction	VDV
Measured	00:00:47	0.04	Z	23.15
Estimated	00:04:00	0.09	Z	34.56

Exposure

Action required

No actions required

Comment

There has been some shocks- And it requires WBV500 to analyse the shocks later on.

Figure8: VibNoiseView Report preview

Open previous saves measurement files

1. Open a New HAV/WBV/Noise project tab from ‘File’ menu.
2. Click on ‘Open button’ in “Measures” section to open your saved measurement files. (see figure9)

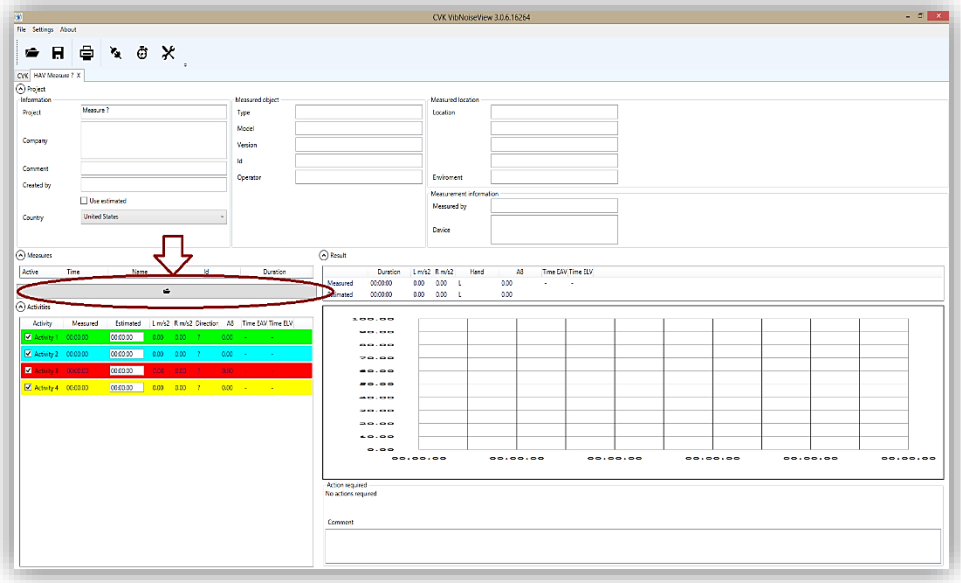


Figure9: Open a saved measurement file

Adjust time

To change date and time in your unit:

1. Choose ‘’Calibration mode’’ on unit

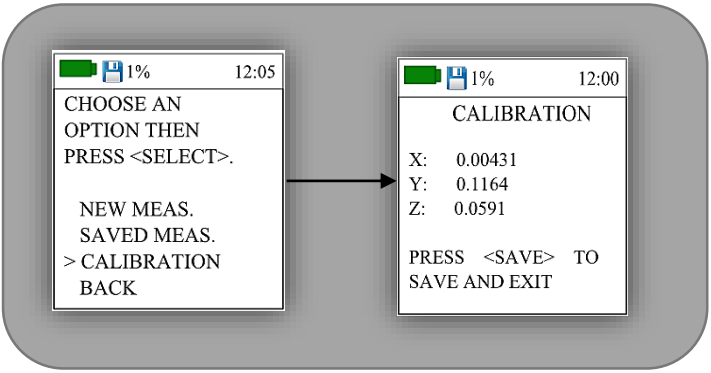


Figure10: Choose Calibration mode on unit

2. Choose ‘’Calibration mode’’ on unit
3. Connect the unit to the computer and run VibNoiseView
4. Start Calibration software by click on icon 

   And the ‘’Calibrate’’ window will show up.

5. Press ‘’Set Clock’’ to synchronise your unit time and date with your computer.

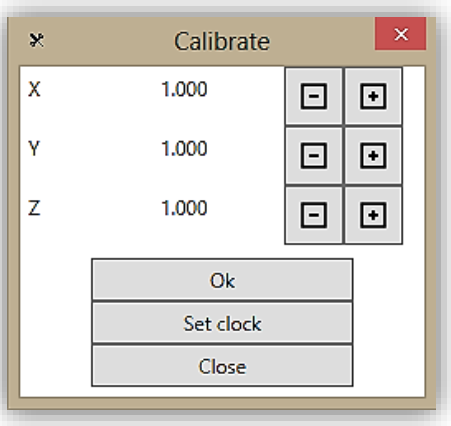


Figure11: Adjust date and time on unit