



ArtemiS 11

New features and applications

Go aHEAD!



HEAD Recorder 2.0



- Get HEAD Recorder 2.0 as part of the ArtemiS 11 release!



- The HEAD Recorder included with ArtemiS is an easy to use programmable recording software with an individually configurable user interface.



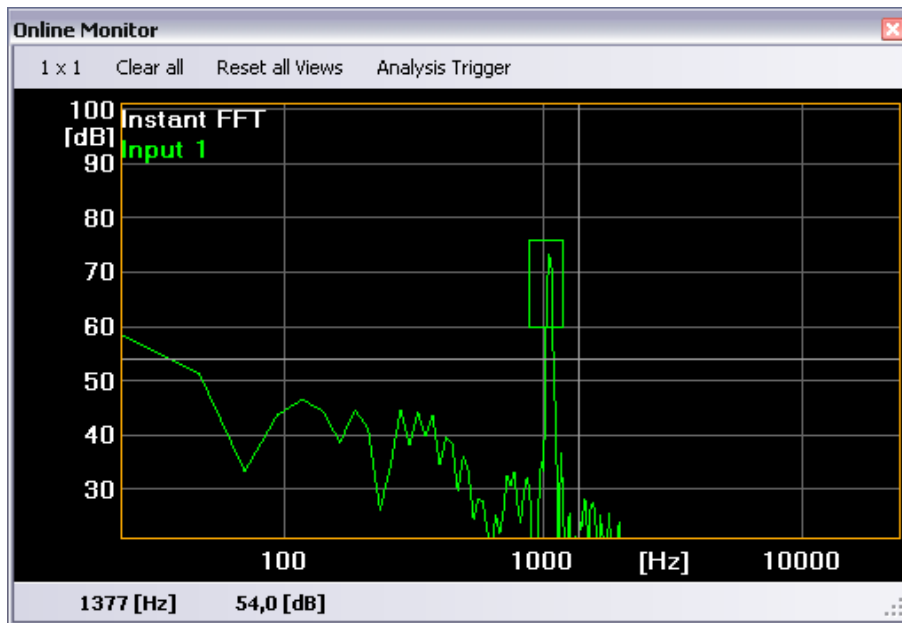
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Innovations with HEAD Recorder



- Analysis Trigger:**
 The Analysis Trigger allows triggering on an A-weighted signal level, or when using the FFT spectrum on a predefined frequency.



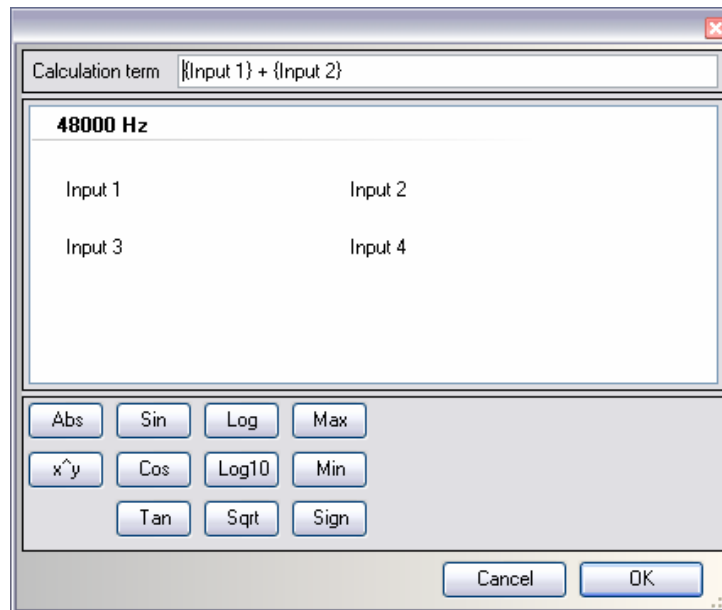
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Innovations with HEAD Recorder

- Calculation Term Editor



- The HEAD Recorder 2.0 uses available channels to calculate e.g. the sum, the mean value, etc., or individually defined factors.
- For example, this enables the online determination of both the slip = rpm1 / rpm2 and the power = drive * torque or the combination of data from various CAN bus data to create and store new data channels.
- Triggering is also possible on these calculated channels.



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HEAD Data Portal



-  Engine3AS_Mod3_Test17BX_20090529_Ag.hdf
-  Engine3BS_Mod7_Test17BX_20090529_Ag.hdf

- Do you have file names like this on your hard disk?
- ArtemiS 11 helps you get organized – by using the HEAD Data Portal!



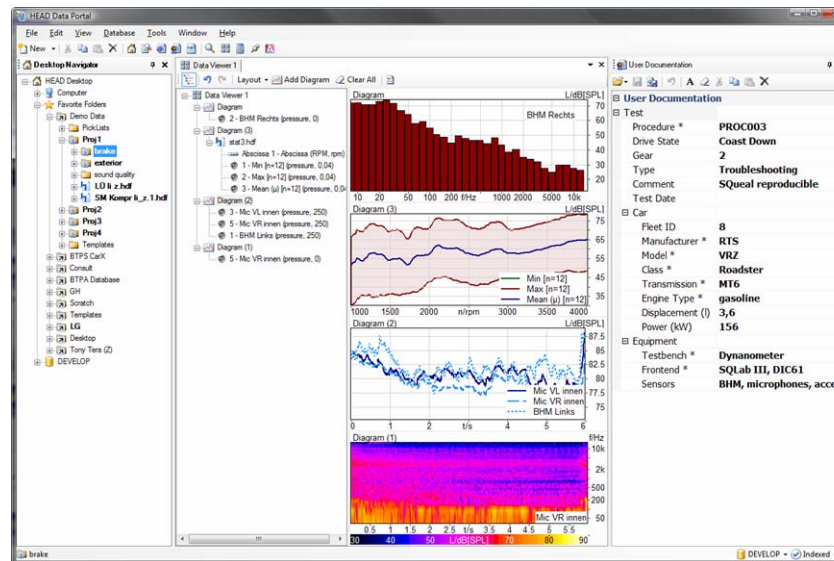
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HEAD Data Portal



- Generation, administration and screening of data and the corresponding documentation
- Easy and quick configuration, display and comparison of files
- Statistic functions for 2D curves with display of scatter bands
- All information about a database item is available at a glance/click
- Transfer of results to ArtemiS



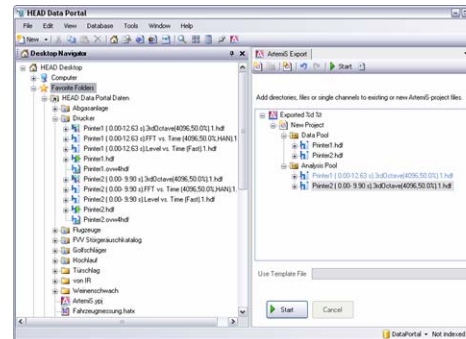
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Good Cooperation



ArtemiS – HEAD Data Portal – HEAD Recorder A perfect match!

- ArtemiS and HEAD Data Portal are optimally adapted to each other: Data which was generated with the HEAD Data Portal can be inserted into an ArtemiS project with a single click, and documentation filed in the HEAD Data Portal can be viewed in ArtemiS.
- And HEAD Recorder 2.0 and HEAD Data Portal also work together perfectly: Right from the recording stage, important documentation can be filed in the HEAD Recorder 2.0.



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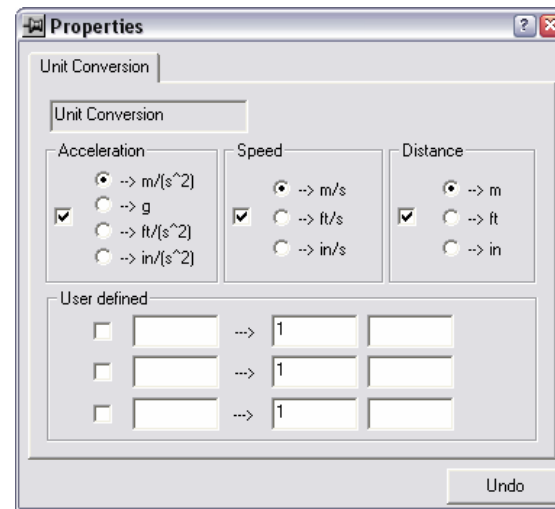


Upgrades in the Filter Pool



- Do you work with the metric system but your customer does not? Then the data exchange is an ongoing problem since your colleague measures acceleration in “g” whereas you measure it in “m/s²”?

- The new conversion tool for physical units in the Filter Pool allows you to keep these problems under control so you can attend to the more essential tasks!



- More innovations in the Filter Pool:
 - Calculation of the envelope
 - Increase of the max. FIR filter length to 512 k samples

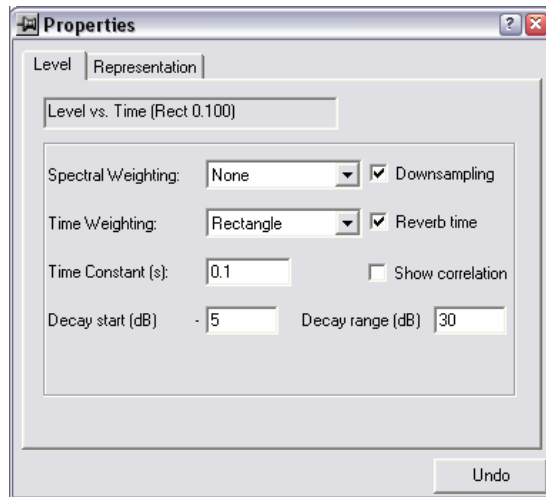
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New Analyses



- ArtemiS 11 features new analyses:



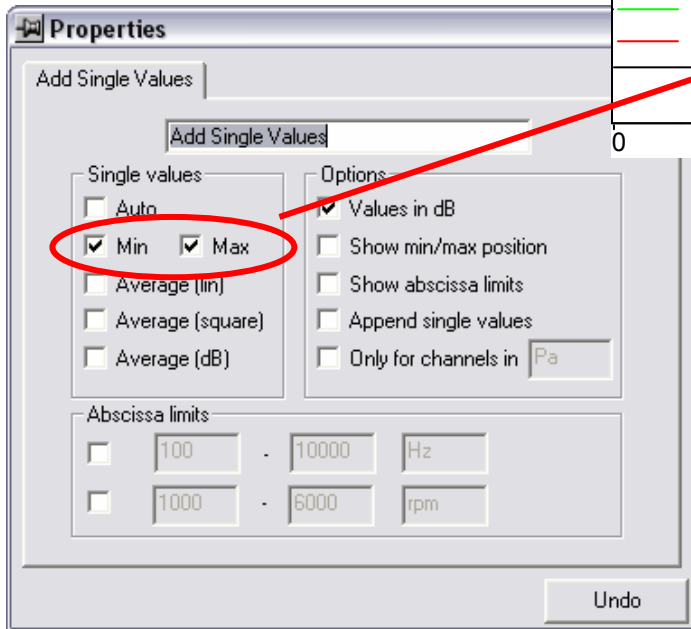
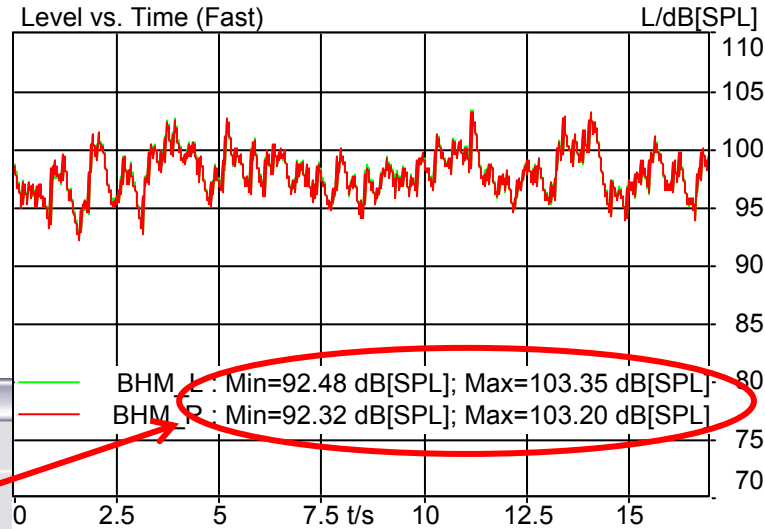
- Auto spectrum vs. time/RPM
- Cross spectrum vs. time/RPM
- Impulse response vs. time/RPM
- Transfer function vs. time/RPM
- Coherence vs. time/RPM

- Some analyses have been revised and upgraded (e.g. the “level vs. time” analysis now allows for both the exponential temporal integration and an adjustable, block-wise integration for an improved calculation of the reverberation time.

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Presentation of Single Values

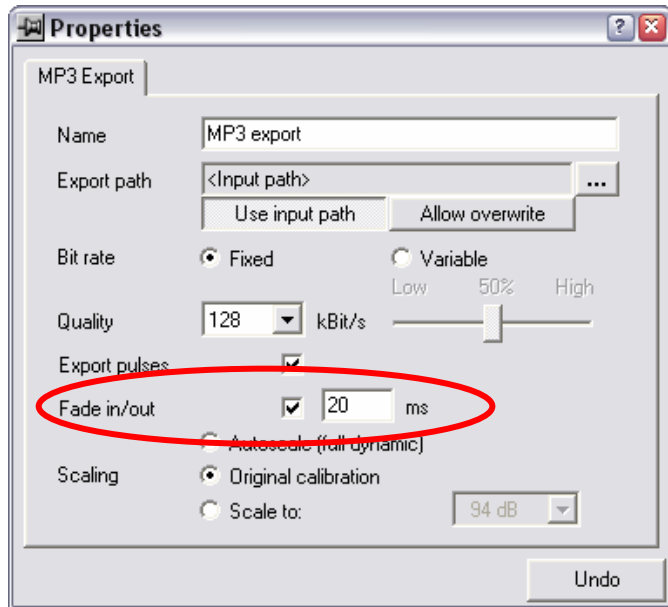


- A new element in the Statistics Pool now allows for the activation of both the calculation of the average value and the calculation of further single values (e.g. min. and max.) for presentation in the diagram.

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New options in the import/export



- In order to avoid the start-up crackling noise during playback using other software applications, the MP3- and the OggVorbis export now allow for the activation of fade in/out as implemented in the Wave export.

- The import of files in SDF format has been comprehensively revised:
 - Support of DOF information
 - Improved definition of the range
 - Detection of errors in the header of the imported SDF file

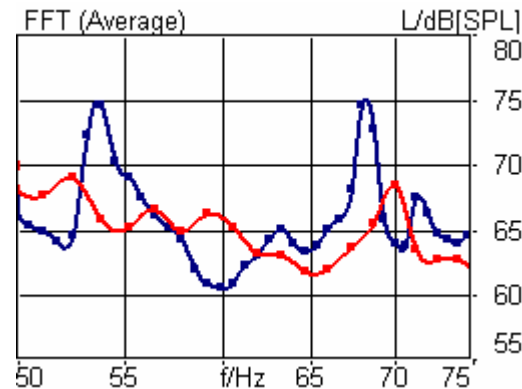
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ArtemiS diagrams



- Large files? No problem!
ArtemiS 11 has improved handling of large time files, e.g. optimized performance in the generation of diagrams showing large time files.
- Diagram parameters can be directly written from ArtemiS into a result file by using the command “Export result”.
- Using the new command “Mark points”, sampling points can be displayed on the diagram curves



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ArtemiS 11



- Interested in using any of the presented features, or one of the many other innovations of ArtemiS 11?
- If you have a current software maintenance agreement for your ArtemiS licenses, you will automatically receive your new setup DVDs and keyfiles!
- If you do not have a maintenance agreement, please contact your HEAD acoustics representative for more information and an update proposal.



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