



New Features and Applications

ArtemiS 11.0.200

HEAD Data Portal 1.0.200 HEAD Recorder 2.0.300



Go aHEAD!



New Dongle



- The new installation DVD also includes a new dongle.
- Even though it's smaller than its forerunner, the new dongle has more features! It is a dongle and keyfile all in one. That means, you no longer have to copy keyfiles around in order to use your ArtemiS license with different computers. Just attach the new dongle and go!



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Video Playback



- From now on, ArtemiS and HEAD Recorder are capable of both "Audio" and "Video"!

The HEAD Recorder allows recording of triggered video signals together with the audio signals. These video signals can be played back in ArtemiS – e.g. synchronous with the playback cursor in the Mark Analyser.

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HEAD Data Portal - Playback



- In response to our customers' suggestions, the HEAD Data Portal, which is included in ArtemiS and is used for the management of your data, is now configured with additional user-friendly features.

Name	Hotkey	Start Time	Duration
▶ RunUp_2ndGear.hdf	CTRL+1	0,000	12,384
▢ RunUp_2ndGear2.hdf	CTRL+2	0,000	26,616
▢ RunUp_3rdGear.hdf	CTRL+3	0,000	21,872
▢ RunUp_3rdGear2.hdf	CTRL+4	0,000	47,264

The new player includes a convenient playback function for your audio files, e.g. using play lists to easily compare the different files' sounds.

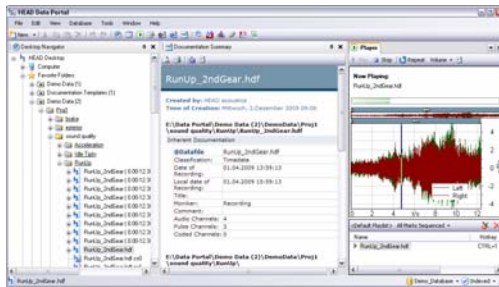
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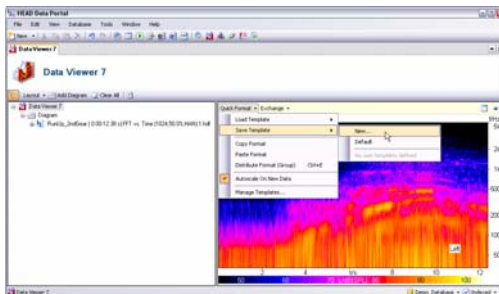
HEAD Data Portal – Handling (1)



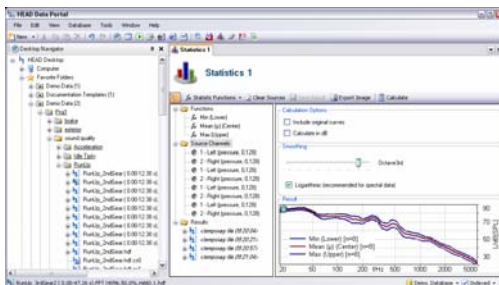
- More improvements to the HEAD Data Portal:



- Get started right away: From now on, the layout of the tool windows pops up after reboot, automatically restoring the configuration of your last session!



- Compare files faster: With the new version of HEAD Data Portal, diagram templates can be saved and consistently be used again. This allows you to directly compare your data!



- Smooth results more suitably: The extended statistic window now allows an exponential smoothing, which is especially suitable for spectral datasets.

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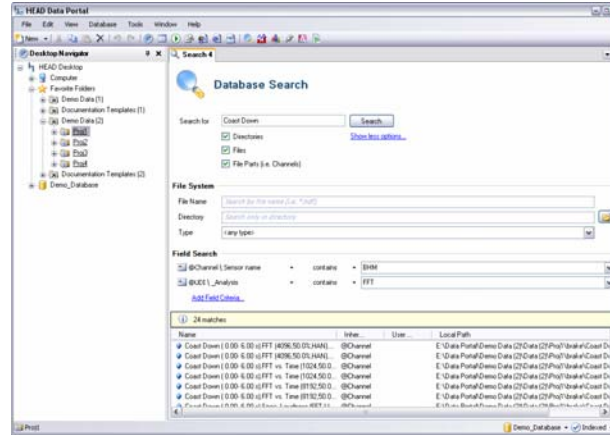


HEAD Data Portal – Handling (2)

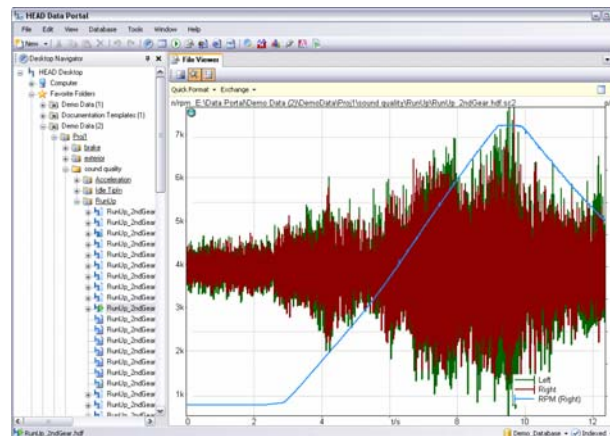


- More improvements to the HEAD Data Portal:

- Quick search results: The improved user interface for browsing the database helps you finding important files even quicker!



- Better analysis: From now on, the file viewer also shows the decoded rpm information.

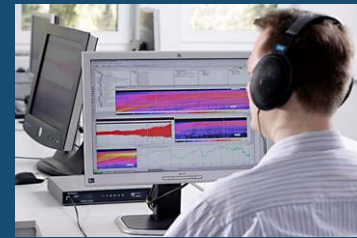


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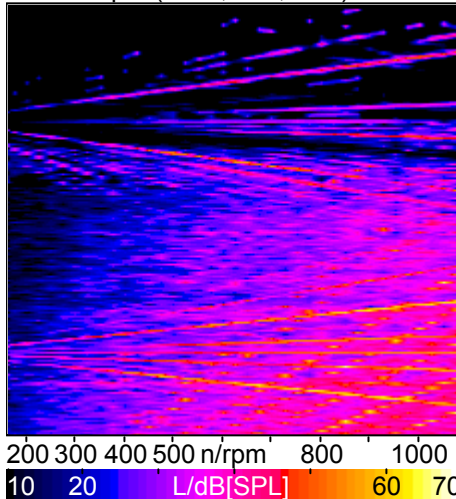
Analysis of Electrical Drive Engineering



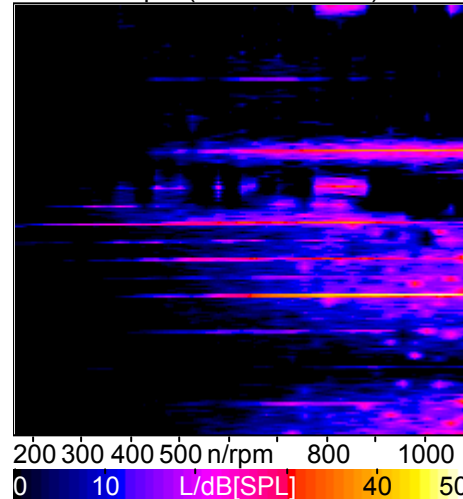
- With the new version, a frequency offset for the calculation can be adjusted for all order analyses available in ArtemiS and also the order filters.
- This offset allows for the correct display and simple interpretation of the order spectra of electric motors.



FFT vs rpm (4096,25.0,HAN)



Order vs. rpm (offset 10000Hz)



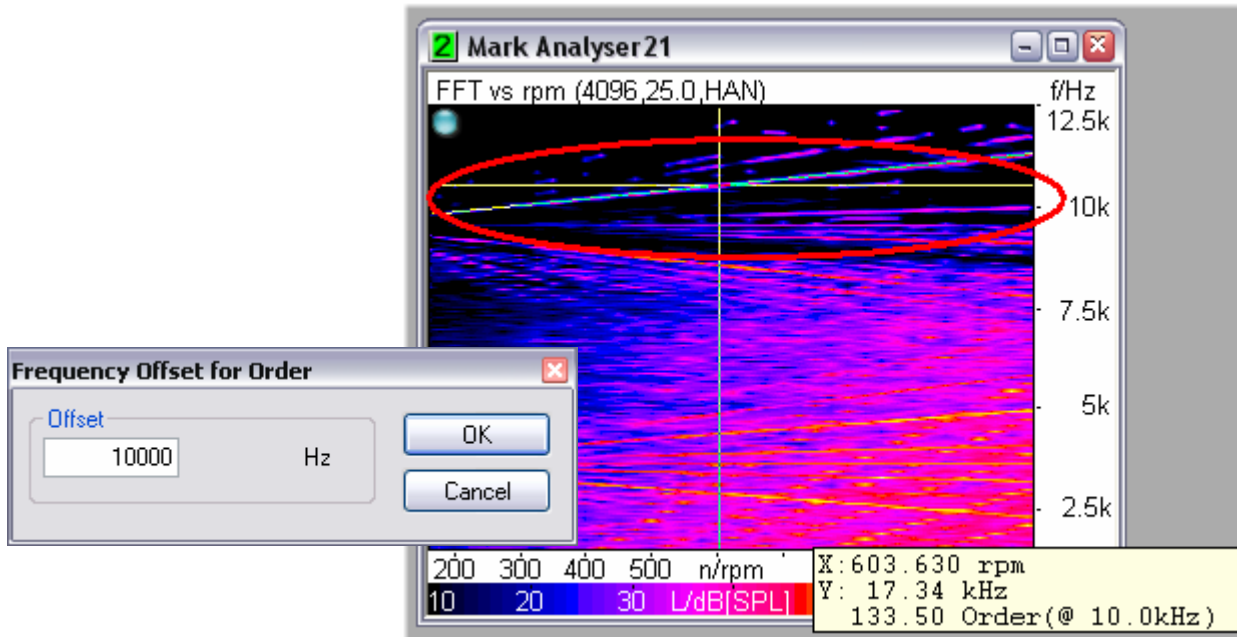
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Analysis of Electrical Drive Engineering



- In the representation analysis “FFT vs rpm” it is possible to define a frequency offset for the order cursor. Thus, the orders of electric motors can be easily read out as well.



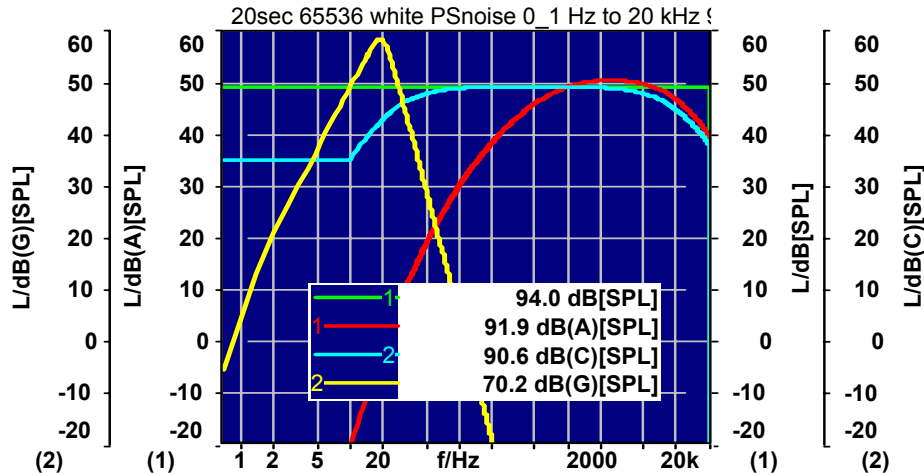
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More New Analyses



- ArtemiS 11.0.200 provides a series of new analyses:
 - Distortion (THD, THD+N; averaged, vs time, vs rpm and vs frequency)
 - G-weighting (acc. ISO 7196), e. g. with selectable FFT (and in the filter pool as a filter function as well)
 - Gated time cuts (averaged)
 - Complex calculation of the Gated Fourier Spectrum



Furthermore, an ArtemiS diagram now can display up to eight different ordinates!

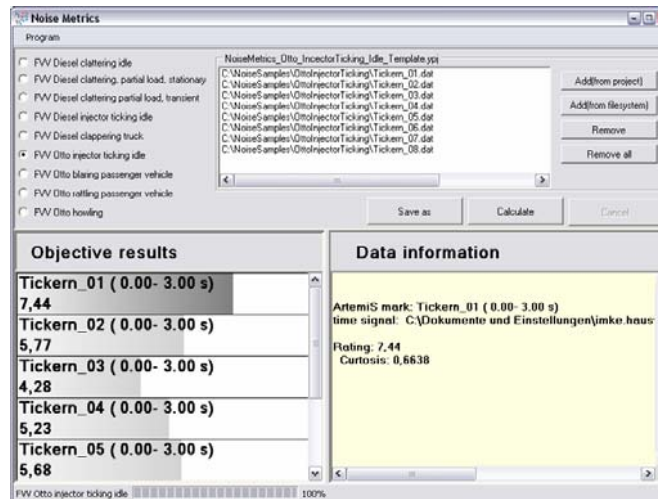
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HEAD Noise Metrics



- For determining the annoyance of sounds, it is not sufficient to only calculate the A-weighted level. But even determining psychoacoustic parameters such as loudness, sharpness or roughness, is only helpful to a limited extent.
- In most cases, a metric, which incorporates a combination of different parameters, is required.
- The setup DVD for ArtemiS 11.0.200 also includes the software tool “HEAD Noise Metrics”, allowing the calculation of different noise metrics for combustion engines.



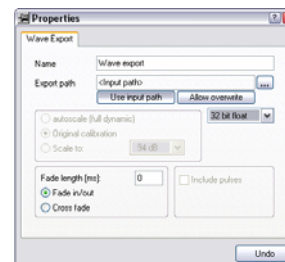
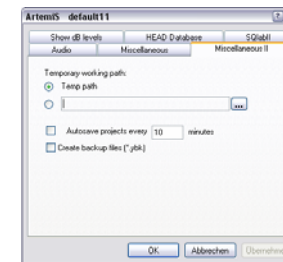
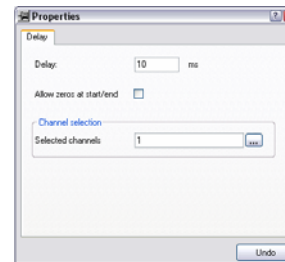
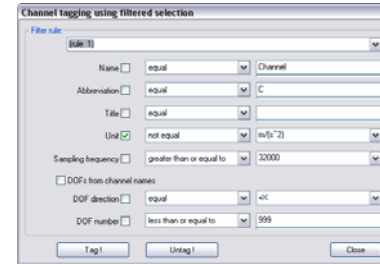
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More innovations



- Channel Tagger:
 - Channel tagging by editable filters
- Backup Files:
 - Automatic generation of a backup file before a project is saved
- Filter Pool: Delay Function:
 - Channel selective time shifting, e.g. for compensating a delay between the audio signal and the rpm
- Wave Export:
 - Wave export in the IEEE float format (The floating point values of the file directly include the physical units)
- Info Box:
 - The ArtemiS Info Box now shows the “Documentation Summary”, using the format familiar to the HEAD Data Portal.



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ArtemiS 11.0.200



- Interested in using the described features or one of the many other innovations of ArtemiS 11.0.200?

- If you possess a license for ArtemiS 11.0.100 or a software maintenance agreement, your new setup DVD along with the new dongle will be sent out to you automatically!



- Don't have an active software maintenance agreement? Please ask your HEAD acoustics contact person for more information and a corresponding update offer.



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