

ArtemiS

Sound and Vibration Analysis
Intuitive • Efficient • Reliable



> ArtemiS – The All-Purpose Tool

ArtemiS is a multi-channel analysis system for acoustic and vibration-related technical analyses, offering you efficient and comprehensive performance in all areas of sound and vibration analysis. With ArtemiS, you get a complete solution that integrates all relevant aspects, such as multi-channel recordings, extensive analysis functions and aurally accurate playback.

Features

- Easy, intuitive handling
- Efficient and reliable
- Unlimited number of channels
- Unique analysis possibilities
- Analysis with eyes and ears (interactive filtering, playback cursor)
- Straightforward data management

With ArtemiS, you can examine and optimize products and systems emitting noise and vibration, such as vehicles, home appliances and IT devices.

For more than twelve years, ArtemiS has been used as a proven and reliable tool all over the world. See for yourself and check out the unique possibilities!



> The ArtemiS Advantage

Simultaneous Listening, Analyzing and Interactive Filtering

Analyze with your eyes and ears – only by including your own perception can sound problems or target sounds be identified reliably.

Flexibility

Configurations of filters, analyses, statistical evaluations, diagrams and data exports can be quickly and easily adapted to your specific measurement tasks. Frequently used settings can be saved as favorites that can be restored and used at the click of a button.

Intuitive Handling

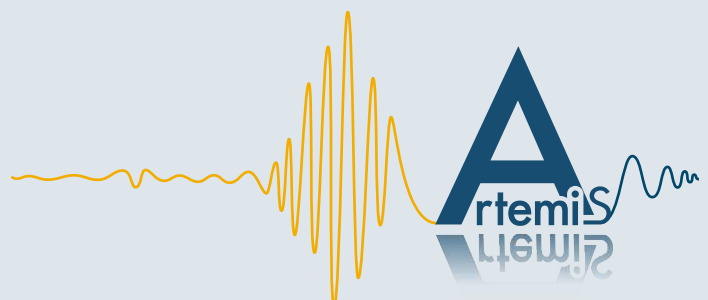
Start measuring and analyzing right away. There is no lengthy learning curve for ArtemiS!

Improved and Accelerated Test Procedures

The straightforward interface and its ease of operation allow quick set-up of test configurations and analyses. Innovative options in ArtemiS save time and effort.

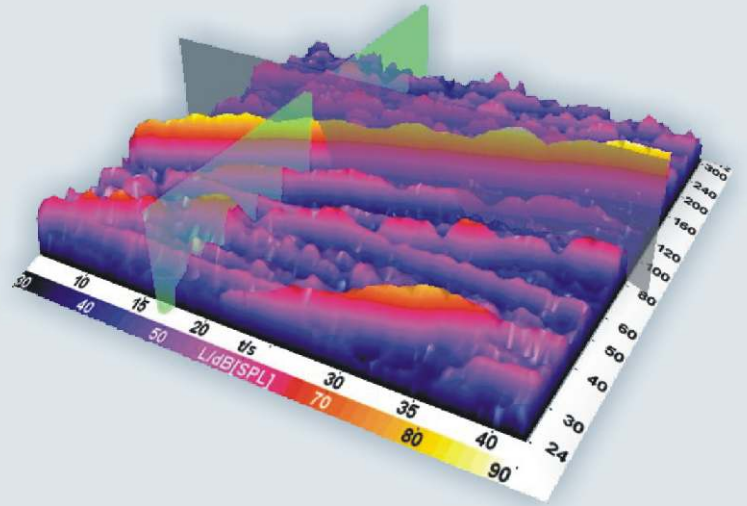
Modular System Design

Adapt your software environment to your specific needs and to special measurement tasks.



> ArtemiS – Your Software for

- multi-channel data acquisition
- signal and system analysis in the time and frequency domain
- sound and vibration analysis
- psychoacoustics
- interactive analysis including subjective perception

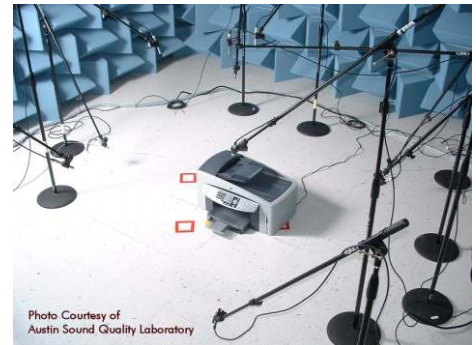


> Application Areas

Besides general sound and vibration analysis, ArtemiS is also being used for sound optimization and sound design for technical products, evaluation of environment and many other applications. Our customers also use ArtemiS for troubleshooting and sound engineering in the NVH

area (Noise, Vibration, Harshness).

ArtemiS is the complete solution supporting you over the entire test process: from data acquisition to extensive analysis to the archiving of measurement data.



> How does ArtemiS facilitate your work?

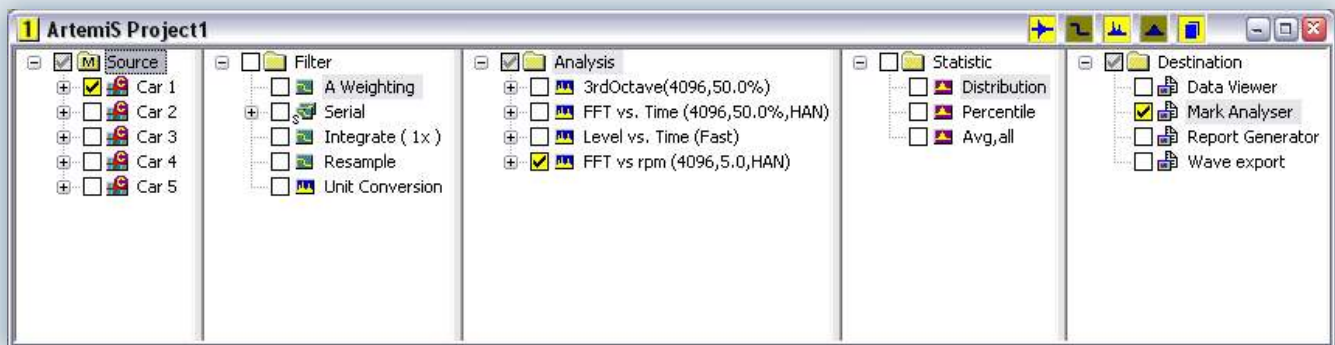
With its intuitive user interface

The ArtemiS interface is straightforward and user-friendly: Configuring analyses and diagrams, selecting filters or starting data exports – everything is done with a few mouse clicks. You can also modify the interface layout to match your specific needs.

With the straightforward Artemis project window

An ArtemiS project provides everything you need for your work in five easy-to-use pools. Into these pools, you simply drag your measurement data, your analysis tools – such as filters, analysis functions and statistical evaluations – as well as the target for your results.

The data and functions required for the current task can then be easily selected via checkboxes.



> Which parts of your work can ArtemiS support you with?

With recording data

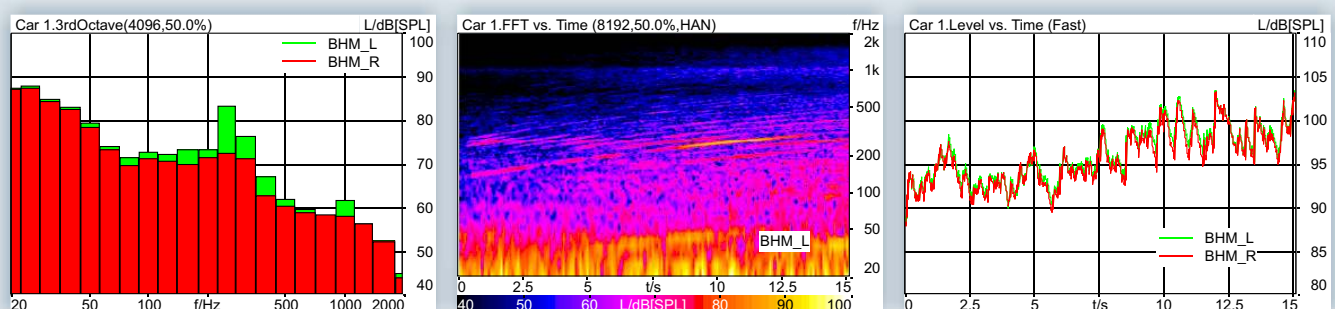
No matter whether you want to record two or two-hundred channels – you can simply use the HEAD Recorder included with ArtemiS to record your data. The recording software can be optimally configured to support your recording needs.

The HEAD Recorder is easy to use and programmable, and it provides various real-time displays (e.g. FFT vs. time) as well as interfaces to ArtemiS and the HEAD Data Portal.

With data analysis

For analyzing your recordings, ArtemiS provides more than 60 different analysis possibilities. The scope of available functions includes common standardized methods, such as level calculation or octave analysis, as well as the calculation of transfer functions or psychoacoustic parameters, and even a number of unique analysis methods, such as the "Relative Approach" and analyses based on a hearing model.

In the comprehensive range of analysis functions, you are sure to find the right analyses for your applications.

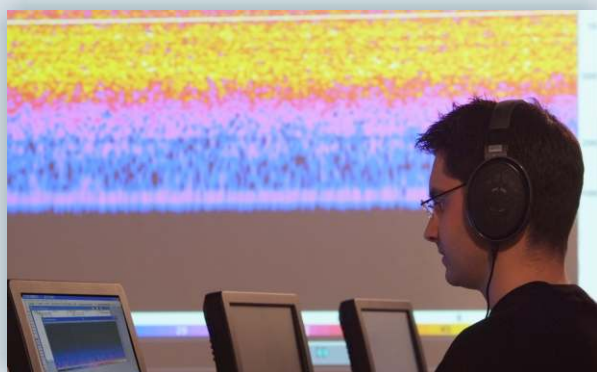


> How does ArtemiS assist you to achieve an optimal result?

With its interactive working concept

For a detailed signal analysis, you work with the Mark Analyzer and the interactive filter elements. You can immediately see and hear the effect of the filters applied, allowing you to easily identify disturbing sound compo-

nents and to define target sounds. That way, you can check which parameters determine the sound impression and predict which modifications can lead to a better sound.



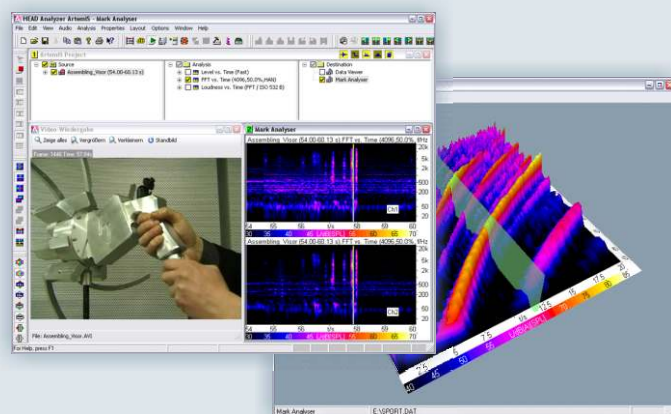
Mark Analyzer and playback cursor

The Mark Analyzer allows a detailed analysis of time domain signals with your eyes and ears. While you listen to the file, the playback cursor shows the current playback position in the diagrams: **You see what you hear!** With the playback dialog, you can play airborne sound at the original speed or slower, faster or with different volumes. Even structure-borne sound can be played.

> How does ArtemiS help you in your communication with co-workers and customers?

With numerous import/export possibilities and supplemental software tools

The various import and export possibilities of ArtemiS allow you to easily pass on or import data (e.g. Wave, UFF, SDF etc.). Furthermore, ArtemiS provides interfaces to third-party applications, such as HEAD Monitor and HEAD Explorer Extension. For example, if you provide your customers or co-workers with the HEAD Monitor, they can view and play your ArtemiS data without requiring an ArtemiS license.



Automated reporting

The base version of ArtemiS includes a basic report generator, which automatically generates standardized reports. With the addition of ArtemiS Tool Pack 11, customization of report templates is possible, e.g. adding your company logo. Standardized reports facilitate the documentation and archiving of your work.

With various documentation possibilities

To ensure that you can always present your results in an appropriate way, ArtemiS offers you a wide range of display options: for example, display in the result window with customizable diagram layouts, color schemes etc. Or you can create an AVI video with the 3D Viewer, which generates an especially vivid representation of your spectrograms. In addition, you can also play videos in ArtemiS that are synchronized with the playback cursor in the Mark Analyzer.

> How can ArtemiS work for you, even when you are not there?



With easy-to-use automation functions

With ArtemiS you can automate frequent tasks. The following tools are available for this purpose:

- the Flow Control function, which can be used without any programming knowledge
- a COM interface that can be accessed from a programming language, such as Visual Basic

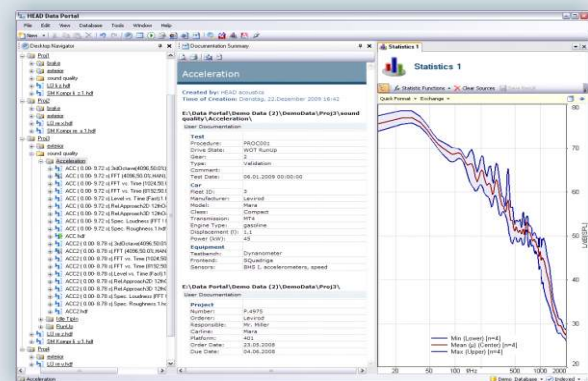
You tell ArtemiS what to do – the rest is done automatically!

> How does ArtemiS help you with your data management?

With the built-in HEAD Data Portal

Reliable documentation with flexible and fast data access

ArtemiS comes with HEAD Data Portal, which allows you to document, organize, view and compare your data in a multitude of ways. Making recordings costs time and money. Protect this investment with comprehensive documentation and fast data access using HEAD Data Portal.



> How can you customize ArtemiS to suit your needs?

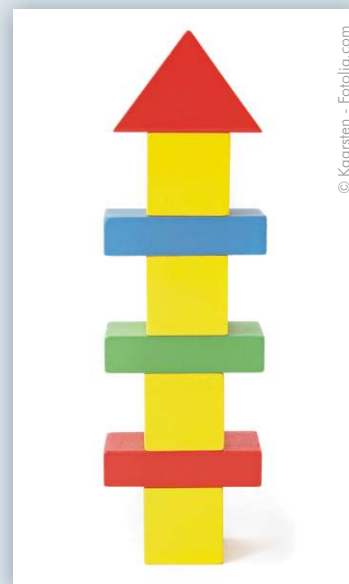
With the ArtemiS Tool Packs (ATP)

Build your personal ArtemiS – module by module

You can extend the ArtemiS base version with numerous optional modules. This modular design of the software allows you to choose an efficient and cost-effective solution, perfectly matched to your requirements.

Available ATPs:

- Module for the playback of any time domain sequence
- Various modules with special analysis functions, e.g. psychoacoustic parameters, analyses as functions of any reference quantity, system analyses
- Module for extended 3D display of diagrams
- Module for extended filtering functions
- and many more



> Supplemental information material for ArtemiS

Our numerous brochures and presentations offer you additional and detailed information related to ArtemiS and its applications. Besides general information and technical details, we also provide practical advice for working with ArtemiS.

On our web page www.head-acoustics.de/eng/nvh_artemis.htm, you will find a complete list of the information material available.

Upon request, we can also send you printed versions of the documents you need.

Datasheets

Our datasheets contain the most important technical specifications, a brief description, and information on the application possibilities of ArtemiS.

Application Notes

Our Application Notes provide comprehensive answers to frequently asked questions about theoretical principles, and present practical application examples.

Product presentations

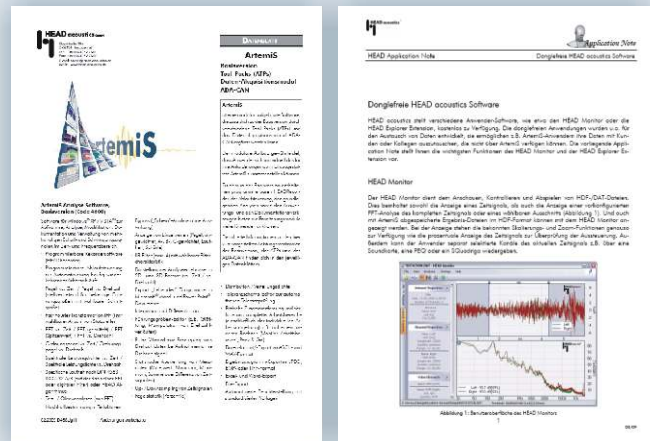
New features of the latest ArtemiS version are presented in the product presentation.

Getting started

If you need assistance with your first steps using the various optional ArtemiS modules, our "Getting Started" presentations will help you.

HEAD acoustics TrainingCenter

The HEAD acoustics TrainingCenter offers an extensive range of training courses and workshops on the operation of ArtemiS.



HEAD acoustics – Making The World Sound Better

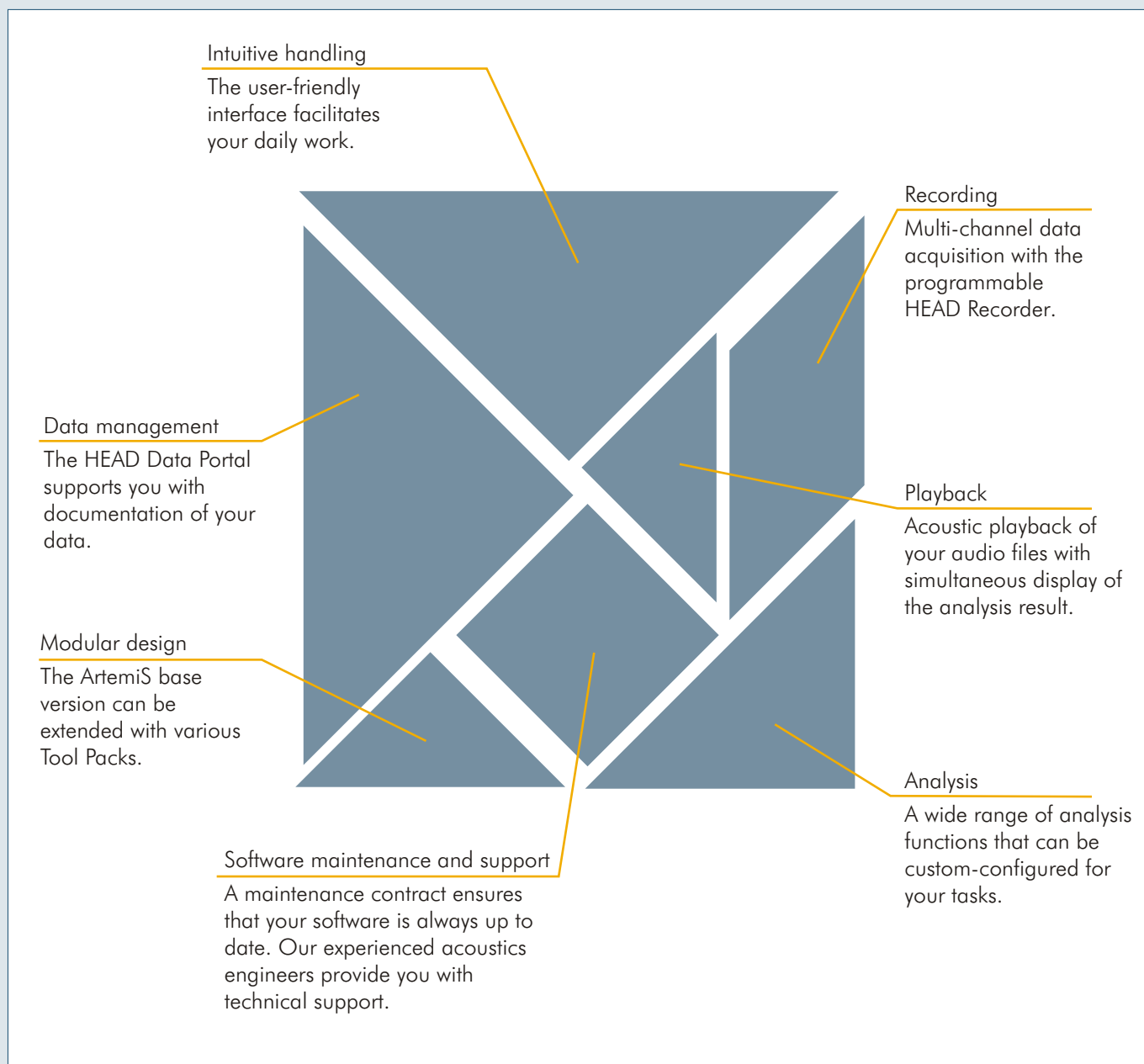
For more than 20 years, HEAD acoustics has been offering professional hardware and software for all areas of signal analysis. Powerful features, flexibility and a

unique ease of use are characteristic of the products from HEAD acoustics. Only customizable solutions make your measurements and analyses efficient!

> ArtemiS – The Complete Solution

ArtemiS combines the acquisition, analysis, evaluation and documentation of data in an easy-to-use unit. In connection with suitable recording frontends and playback units, it provides you with a perfectly matched complete system.

You can extend the ArtemiS base version with a wide range of optional modules according to your needs. This modular design of the software allows you to choose the most effective and cost-saving solution and to perfectly customize ArtemiS to your requirements.



HEAD acoustics®
P.O. Box 3340
52120 Herzogenrath, Germany
Phone: +49 2407 577-0
Fax: +49 2407 577-99
info@head-acoustics.de
www.head-acoustics.com