DATA SHEET

Code 4906

HEAD Companion

Free Software for Data, Frontend, and Sensor Library Handling

OVERVIEW

HEAD Companion

Code 4906

Free Software for Data, Frontend, and Sensor Library Handling

HEAD Companion provides many essential features and tools for users who only occasionally work with measurement and analysis results.

With HEAD Companion, you can manage and maintain fontends from HEAD acoustics, Sensor Libraries, and HDF files on any computer without an ArtemiS SUITE license. HEAD Companion is license free and available for download free-of-charge on our website.

HEAD Companion also supports external project contributors straightforward and license free. Simply install HEAD Companion and work with data, listen to recordings, view analysis results, and export data to other formats.

KEY FEATURES

License free and free-of-charge

Frontend Manager to organize your HEAD acoustics frontends

Sensor Libraries for creating and managing sensors

HEAD Navigator for easy file access

Channel Editor with sorting feature, Channel Preview, and file repair feature

Documentation Viewer to view User Documentation

Player for binaural and aurally-accurate playback via suitable playback systems or for playback via a sound card

HDF file export to WAV and ATFX

User documentation export to CSV and HTML

Decoding of GPS information from an HDF file

APPLICATIONS

License-free use of ArtemiS SUITE basic features

Managing frontends and updating firmware

Viewing, processing, and playing back HDF files

Creating and managing Sensor Libraries

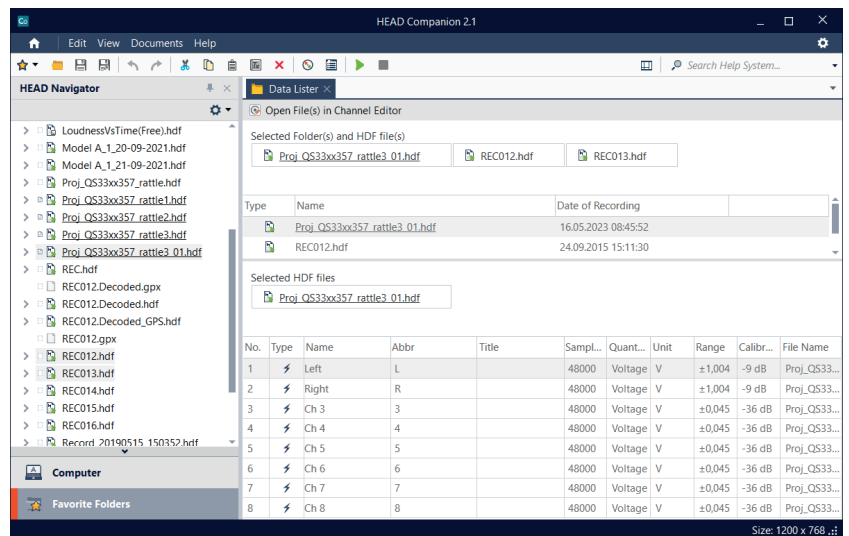# DETAILS

HEAD Navigator

The HEAD Navigator offers views for the file system of your computer and for already defined favorites. As soon as you select a folder or a file in one of the views, the respective paths as well as the folder contents and the file properties respectively are displayed in the Data Lister. You can manually edit the displayed path, paste a different path from the clipboard, or change to the respective directory by clicking a path component.

The bottom part of the Data Lister lists detailed information about the channels contained in the selected HDF file as well as about the respective channel properties in a concise table. You can easily move the table columns with drag-and-drop and sort them in ascending or descending order.

The HEAD Navigator and the Data Lister in the default layout. You can arrange documents or tool windows arbitrarily or place them floating on the desktop.
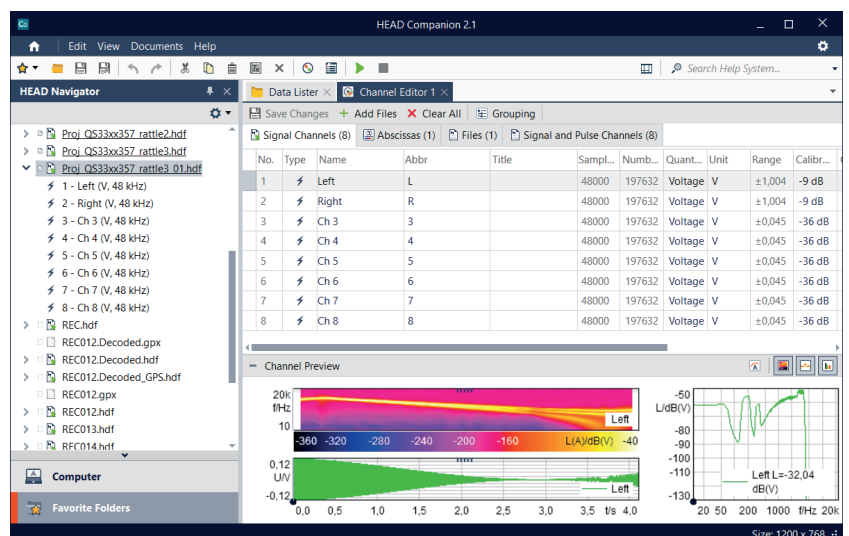
Channel Editor

The Channel Editor provides a detailed overview over all properties of the channels in an HDF file. These include among others the sampling rate, the physical quantity/unit, and the sensor type. This applies not only to signal channels but also to encoded channels, such as CAN FD, pulse, GPS, FlexRay, abscissas, or analysis channels. You can edit some of the channel properties, for example, the channel name.

The Channel Preview visualizes the selected channels (3D analyses visualize only one channel). For a pulse channel, you can have a separate graphic preview of the decoded pulse signal displayed.

In the Channel Editor, the channel properties are displayed on particular tabs. Additionally, you can group channels according to their properties.

Documentation Viewer

With the Documentation Viewer, you can display System Documentation containing, e.g., information about the recording frontend used, as well as user documentation which was saved within the recording by ArtemiS SUITE, SQobold, or SQuadriga III.

Furthermore, you can copy the complete documentation or sections in CSV or HTML format and paste them into an applicable file afterwards.
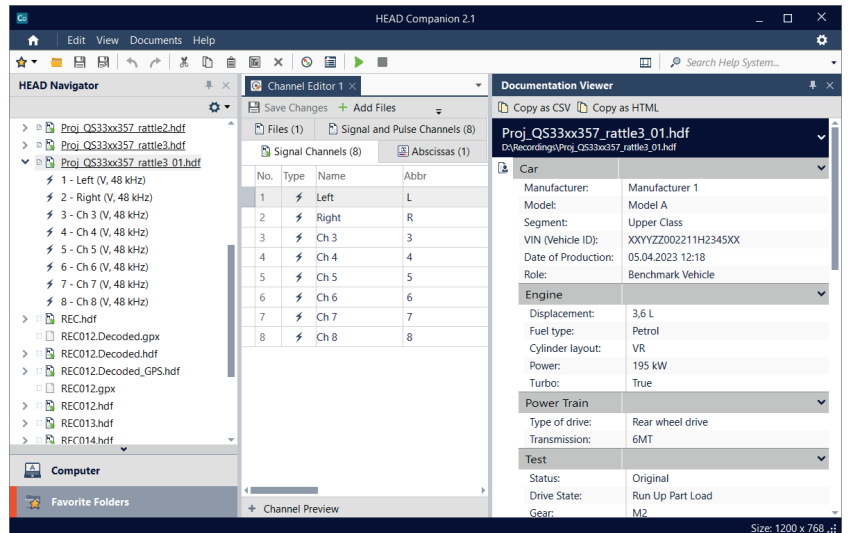
Wave and ATFX Export

Using the export feature, you can provide HDF files to users who are not yet working with HEAD Companion or ArtemiS SUITE. The commonly used file formats WAVE and ATFX are available for this purpose. To work with these file formats, you can use appropriate third-party programs.

The ATFX export also includes the user documentation from the source file. If you want to export to WAVE format, you have the option to export the source file user documentation as a CSV or as an HTML file.
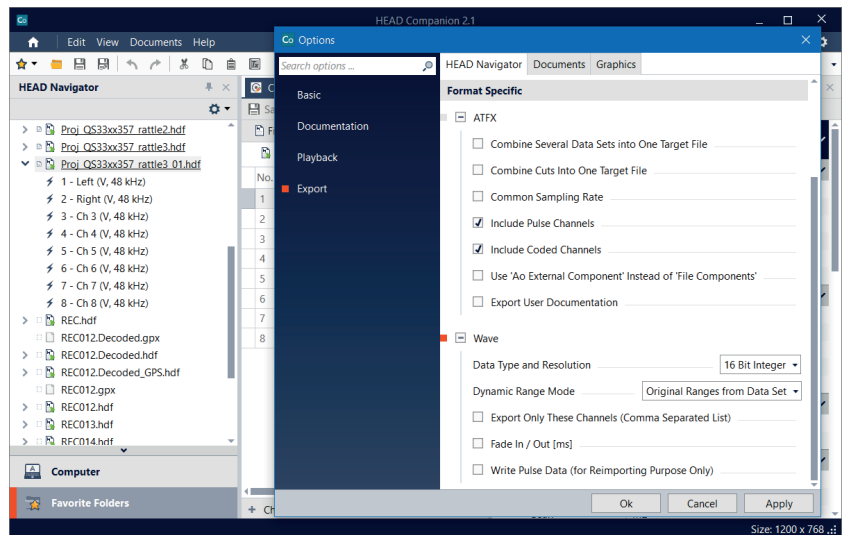
Merging Recordings

Recordings which were recorded with several synchronized frontends or were divided into multiple parts because of recording duration and file size limits of the file system, can be merged sample accurate to a single file easily with HEAD Companion. With synchronized recordings, the time signal of the source files is merged in a way that only overlapping time ranges are included in the resulting file. Split files will simply be concatenated.
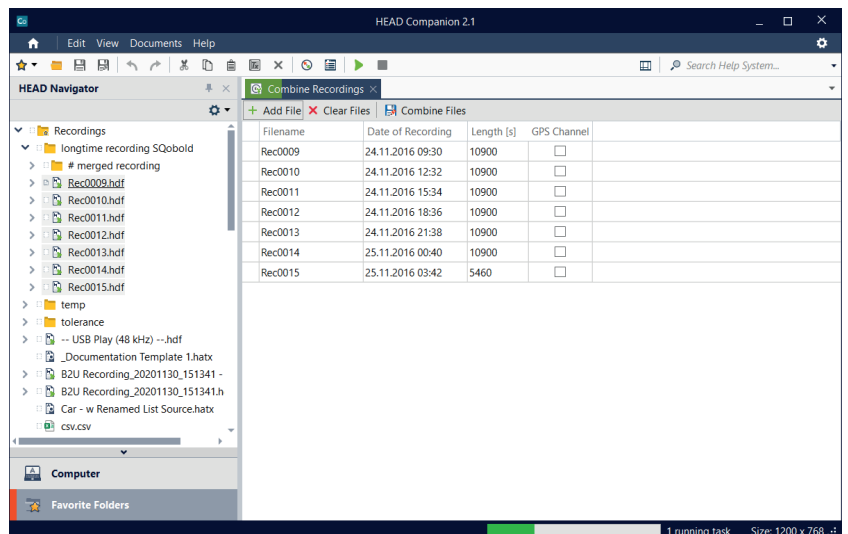
Simply select the desired HDF files and specify a destination directory that allows appropriately sized files. Then you can start merging the selected files at the push of a button.

Detailed measurement data documentation is an important prerequisite for efficient data and information management. The Documentation Viewer displays the user documentation for the selected recording in detail and well arranged.

Wave and ATFX export offer multiple settings to ensure the best possible result. The ATFX export is compliant to ASAM ODS version 5.3.0 and supports CAN FD and FlexRay.

Merged files contain all channels of the original files.

GPS Decoder

GPS signals are recorded in an encoded channel which contains all data obtained via GPS, e.g., the geographic position and the GPS speed. You can transfer this data into dedicated channels using GPS Decoder.
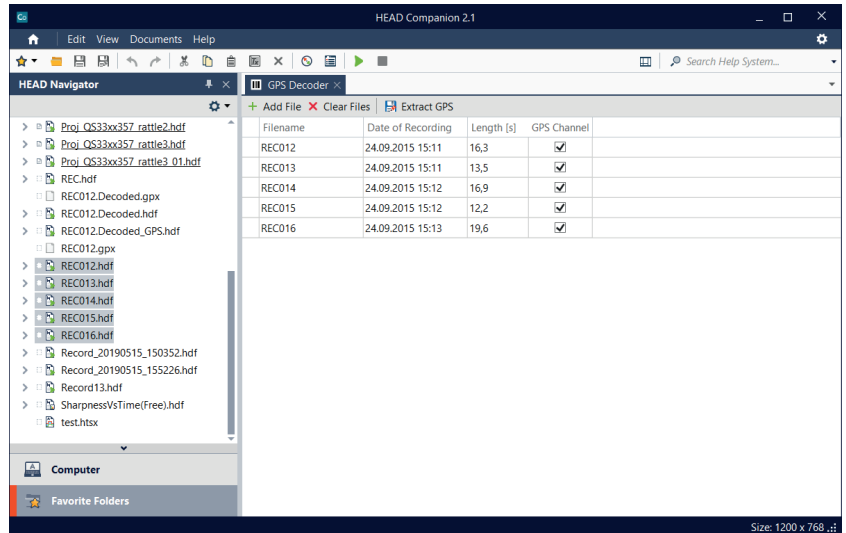
Simply add the desired files to the GPS Decoder file list and HEAD Companion decodes the contained GPS data at the push of a button.
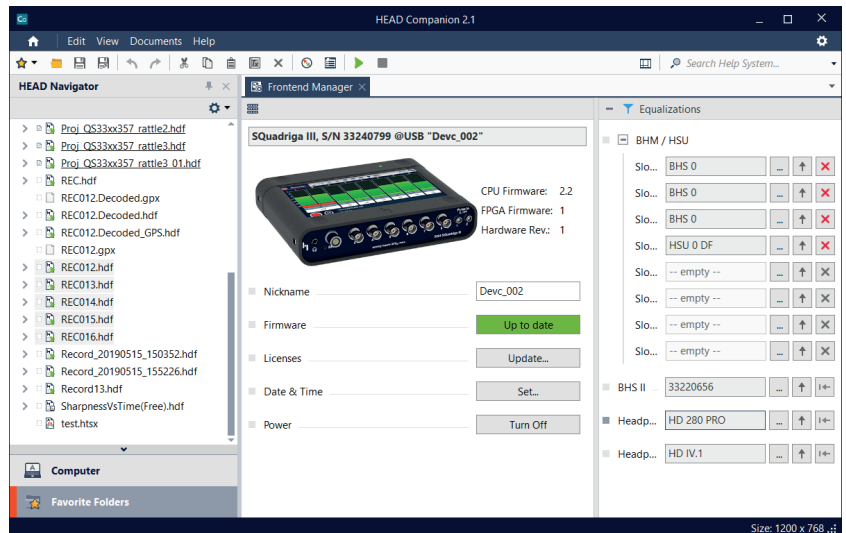
Frontend Manager

The Frontend Manager supports you with frontend maintenance. It connects to the frontend connected to your computer and displays information such as the firmware version and the nickname. In addition, some maintenance functions are available, including updating the firmware, transferring licenses, and transferring and maintaining equalization filter sets.

You can manage many of our frontends with Frontend Manager, e.g., SQobold, SQuadriga III, SQuadriga II, *lab*CTRL II.1, BPU, B2U, SQope, and BSU.

If you additionally install HEAD Updater on your computer, you will not only receive notifications about newly available software versions but also see immediately if the firmware of the selected frontend is out of date.

You can add files from the HEAD Navigator simply by drag-and-drop or by using the corresponding button in the tool bar.

The Frontend Manager offers multiple management functions for your frontends. Simply select a frontend and it offers an intuitive overview of the device properties.

Playback Hardware

We offer multiple playback systems for aurally-accurate and equalized playback, for example, the binaural headphones equalizer with USB interface *lab*P2 and *lab*P2-V1.

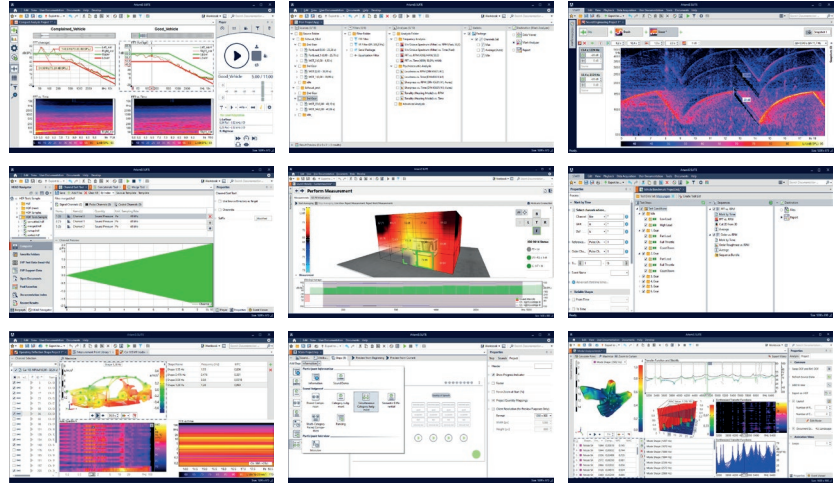Our mobile frontends SQuadriga III and SQobold also enable a corresponding playback.

SQuadriga III

SQobold

*lab*P2

ArtemiS SUITE Software Platform

The modular software platform ArtemiS SUITE is the ideal tool for almost all areas of sound and vibration analysis. ArtemiS SUITE combines a multitude of different tools for the various tasks in an intuitive and uniform software environment.

Scope of Delivery

› HEAD Companion (Code 4906)

System Requirements

› Windows 11 x64
  Pro, Enterprise, Education; version 21H2 or newer;
  Languages: US, Western European
› Windows 10 x64
  Pro, Enterprise, Education; version 1809 or newer;
  Languages: US, Western European
› Processors: Xeon E5-1680, Core i7-7700, Core i5-8250U, Ryzen 5 1500X, Ryzen 5 2500U; recommended: Core i7-9700KF, Core i9-9980HK, Ryzen 5 3600, Ryzen 9 4900HS
› RAM: 8 GB; recommended: 16 GB
› Graphics card: DirectX 9.0c capable with 512 MB; recommended: 2 GB
› Display resolution: WXGA (1366x768);
  recommended: Full HD (1920x1080)

Windows is a registered trademark of Microsoft Corporation.

HEAD acoustics

Contact information

Ebertstraße 30a
52134 Herzogenrath, Germany
Phone: +49 (0) 2407 577-0
Email: sales@head-acoustics.com
Website: www.head-acoustics.com