

## Features

- Software platform for efficient data and information management
- Structured documentation management, searching and organizing of data and data pools
- Clearly structured user interface similar to the Windows Explorer for convenient navigation on local computers and in networks
- Extraction of technical information contained in files, e.g. channel names, measurement units, sensor data, front-end information, user-defined information) for automatic generation of documentation for HDF files (inherent documentation)
- Frontend Reader for direct read-out and conversion of data from the front-ends SQuadriga and DATA-Rec4
- Quick creation of custom user documentation via easy-to-use editors and templates
- Saving of user documentation on the files system level for easy data and information exchange
- Clearly arranged overview of all available documentation in the Documentation Summary
- Custom tool window layouts can be saved
- Database search (with Microsoft SQL Server 2008 Express)
- Multi-stage search function, incl. full-text search
- Built-in File Viewer for quick viewing of individual files (for HDF, PDF, images, HTML, XML)
- Versatile Data Viewer (e.g. for customized division of individual audio channels in a diagram)
- Diagram templates for quick data comparisons can be saved
- Display of decoded pulse channels in the File Viewer and in the Data Viewer
- Convenient playback of audio files (based on a playlist) for acoustic comparisons of several files
- Export of Data Viewers as image files or into Office applications (copy & paste)
- Statistics functions (incl. scatter band diagram, logarithmic or linear smoothing etc.)
- Transfer of selected files to ArtemiS via the ArtemiS Manager

## DATA SHEET

### HEAD Data Portal (Code 4660)

Software for Structured and Cross-linked Documentation, Viewing and Organization of Data

#### Overview

A traceable documentation and the cross-linking of important information is a precondition for structured working and successful cooperation within a team, a department or a company.

With the HEAD Data Portal software platform developed by HEAD acoustics, data can be documented, compared and organized both locally and in a network. With minimum effort, specific information (user documentation) can be assigned to individual files or entire folders and can thus be used for convenient searching and organization of the data. For example, channel names, UDI or user-defined custom criteria can be used for the search.

A versatile Data Viewer, statistical calculations and other features allow files or individual channels to be compared and to view the results at a glance, e.g. to identify peculiarities quickly.

The HEAD Data Portal Player allows the direct playback of HDF files. Using the playlist, acoustic comparisons etc. can be performed.

HEAD Data Portal ensures an optimal cross-linking of information. The user documentation associated with the files can be transferred from one computer to another, into networks or into a database. This makes workflows transparent and traceable at any time.

Existing information from older datasets can be used quickly and comfortably, e.g. for running a search.

- Creation of user documentation already while recording (with the HEAD Recorder software)
- Software extension: "MDM Analysis"

## Easy Handling

The HEAD Data Portal has a particularly user-friendly interface similar to the Windows Explorer. Data pools can be viewed and compared directly, and navigation on the local computer as well as in the network is easy and straightforward. Furthermore, the HEAD Data Portal allows custom-defined tool window layouts to be saved.

With the built-in File Viewer for various types of files, such as HDF, PDF, HTML and various image formats, individual files can be viewed directly.

## User Documentation

User documentation, i.e. specific information about a measurement, a file etc., can be created with little effort and can be used, for example, for detailed search and evaluation. User documentation can be created either directly at the time of recording, or can be "attached" later to files or entire folders.

User documentation associated with a folder always applies to the entire contents of the folder (all subfolders, files and file components).

If new files are added to a folder that has already been documented, the existing user documentation is automatically applied to them.

Since the documentation is attached to the related data, all information can easily be transferred to other computers or into a network, making it available at any place and any time.

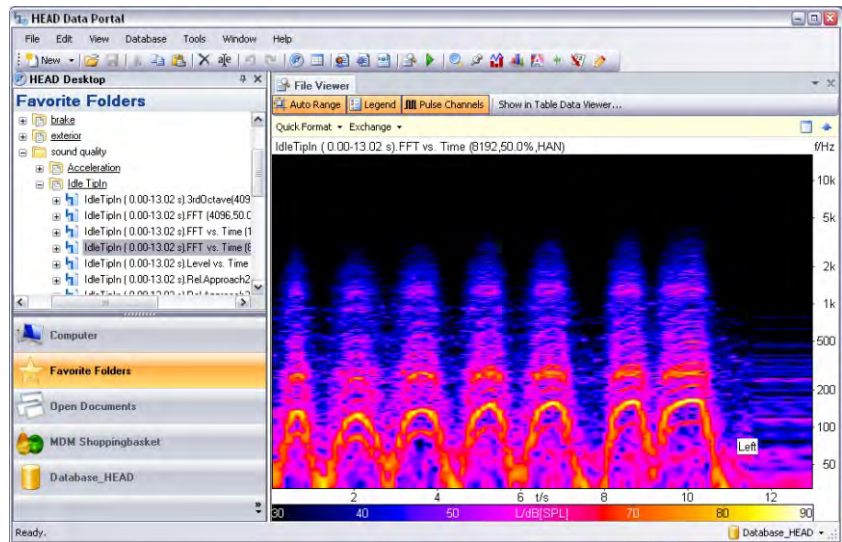
Customized documentation templates, which can be created with Template Editors, facilitate your daily work.

## Integration of Master Data

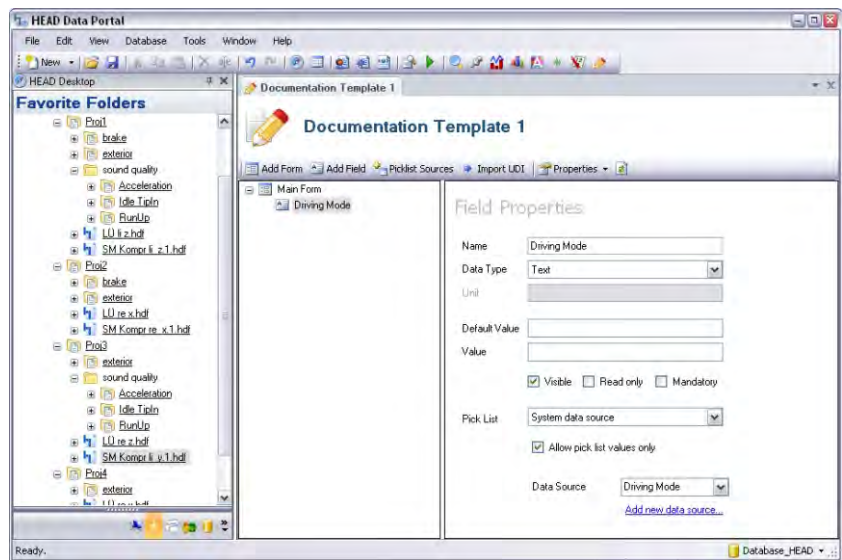
With the HEAD Data Portal, users can use their own master data (user-defined information, e.g. based on CSV files) for quick and syntactically correct user documentation. Selection lists can be created very conveniently, e.g. for listing only the products of a previously selected manufacturer. Furthermore, dependencies between different data fields can be easily configured, saving work and time.

## Inherent Documentation

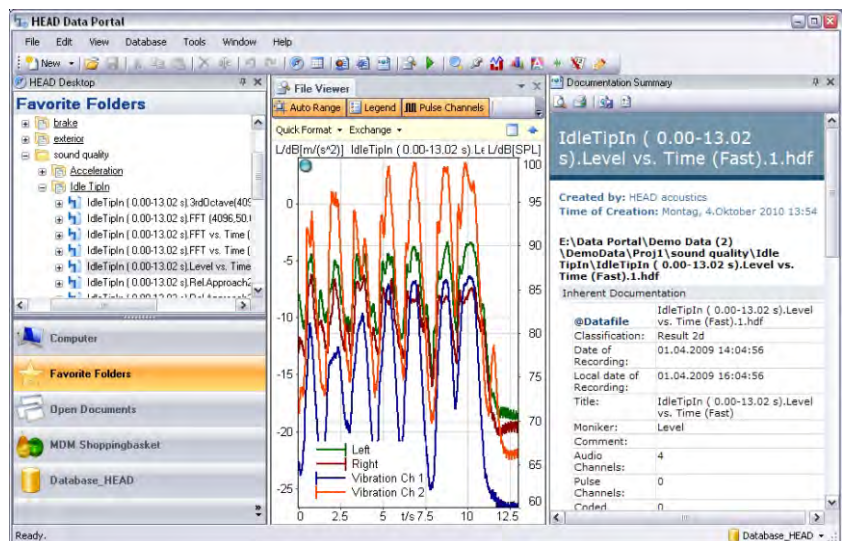
The HEAD Data Portal automatically extracts all relevant technical information contained in a file or individual channels (channel names, measurement units, sensor data, front-end information, user-defined information etc.), which is referred to as inherent documentation. Upon a mouse click, the Documentation Summary provides users with a clearly arranged overview of both user documentation and inherent documentation.



With its straightforward layout, the user interface of the HEAD Data Viewer provides a quick orientation in the local file system and in the network. With just one click on an HDF file, the File Viewer displays it immediately.



Creating templates for user documentation is a quick and easy job with the Template Editor.



The Documentation Summary shows at a glance which documentation is available for an item in the data pool. In listening tests, it is possible to switch between the individual marks in a time- and RPM-synchronized manner.

## Database

If desired, data pools can be indexed in a local MS SQL Server Express database, so they are available for quick searching and navigation in virtual folders.

Besides user documentation, the indexing service also covers technical information already contained in the data, such as channel names, measurement units, user-defined information, front-end and sensor data etc., so this information can be used for searching as well.

## Data Search

The HEAD Data Portal allows structured and convenient searching for relevant data across any number of levels. A virtually unlimited number of user-defined search criteria (project number, channel name, date, analysis type, ...) can be used in a search request. A full-text search is possible too.

## Frontend Reader

With the Frontend Reader, data from front-ends with built-in memory (SQuadriga) or with raw data stored in a file (DATARec4) can be transferred to the computer and converted to HDF files. Information about sensors or calibration can be conveniently added to these data via the context menu of the channels, e.g. by means of templates.

## Data Viewer

The Data Viewer allows time domain data and result files to be displayed in one or several diagrams. It is also possible to simply drag and drop individual channels from different files into a diagram, which allows a direct comparison immediately. Pulse channels are decoded automatically, and the Data Viewer displays the curve of the reference quantity (e.g. RPM) graphically.

The diagrams created can simply be dragged and dropped into a word processor or graphics program or can be saved in various formats (PNG, WMF, metafile etc.).

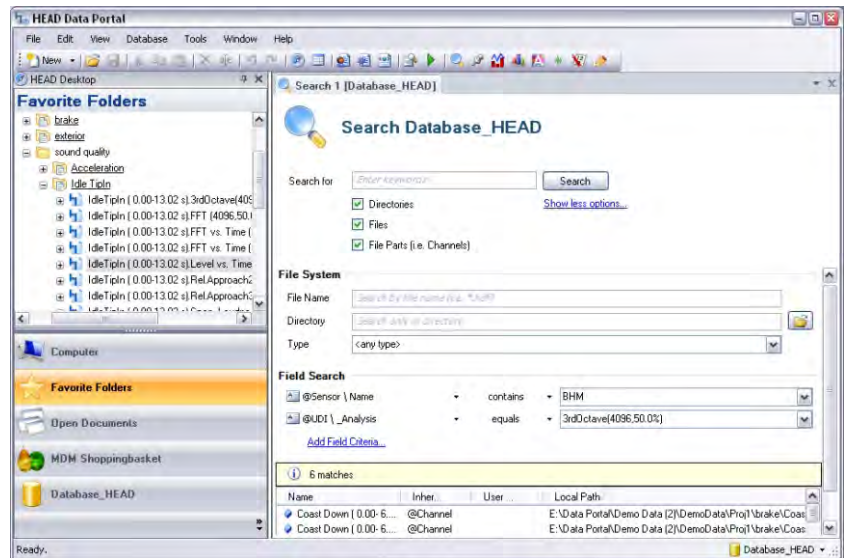
Furthermore, the HEAD Data Portal offers the possibility to save custom-designed diagram templates for a better comparability of results.

## File Viewer

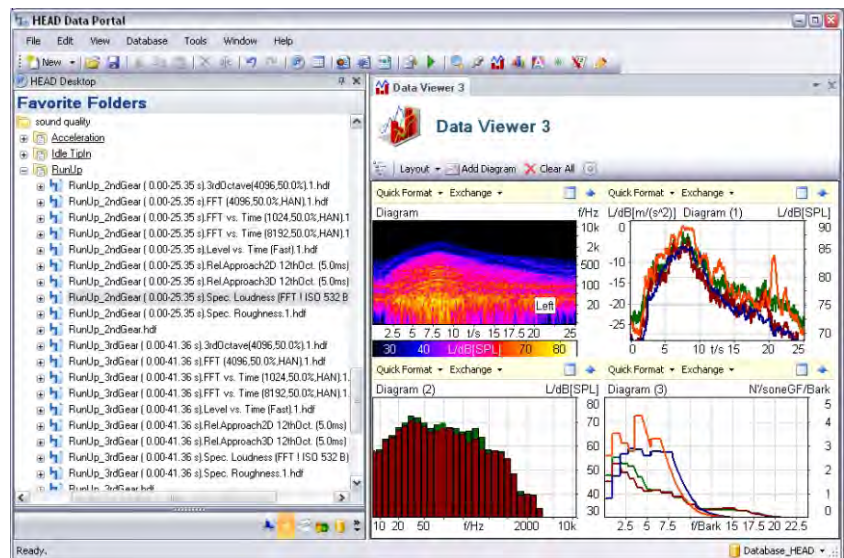
The File Viewer provides a quick overview of various file types and allows, for example, HDF and DAT files as well as a wide range of document and image file formats to be opened.

## Table View

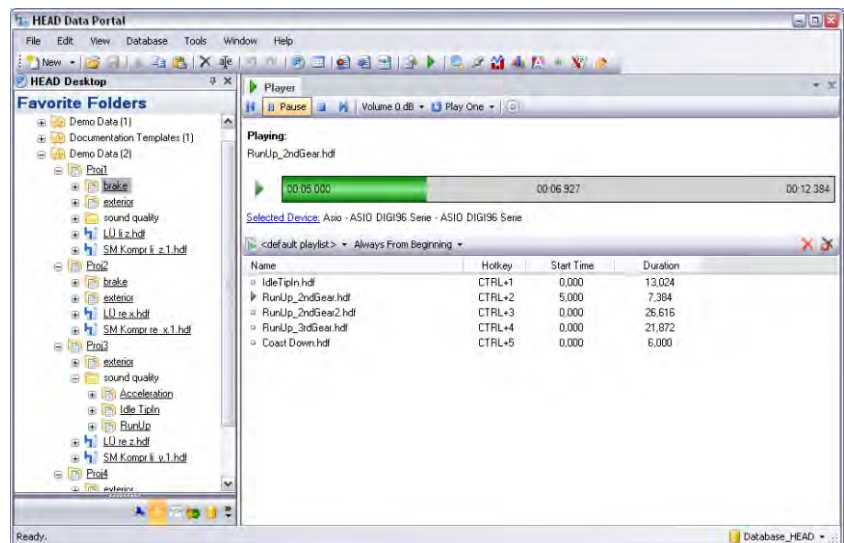
This function reads data from HDF files and presents them in a table suitable for easy export to Excel® or XML, for example.



A wide range of custom criteria is available for the data search function. The found data can be immediately displayed and compared in the Data Viewer.



Upon one click, the Data Viewer displays the selected file. Furthermore, individual channels can also be displayed separately, or channels from different files can be dragged into the same diagram for a direct comparison.



The player has several option settings. Furthermore, mark borders can be set individually. In listening tests, it is possible to switch between the individual marks in a time- and RPM-synchronized manner.

## Playback

The HEAD Data Portal provides a built-in player for time domain data. For example, files can be dragged and dropped onto the player window. Using a suitable equalizer (e.g. the PEQ V from HEAD acoustics), the playback signal is equalized and played at the correct level automatically.

## Statistics

The HEAD Data Portal provides several statistical evaluation possibilities. Sum or order levels in a comparative context can be displayed, and scatter bands from multiple result files can be calculated. Statistical parameters like mean value, median, percentile or standard deviation can be added with a mouse click. This also applies to transfer functions or any other 2D data sets calculated with ArtemiS.

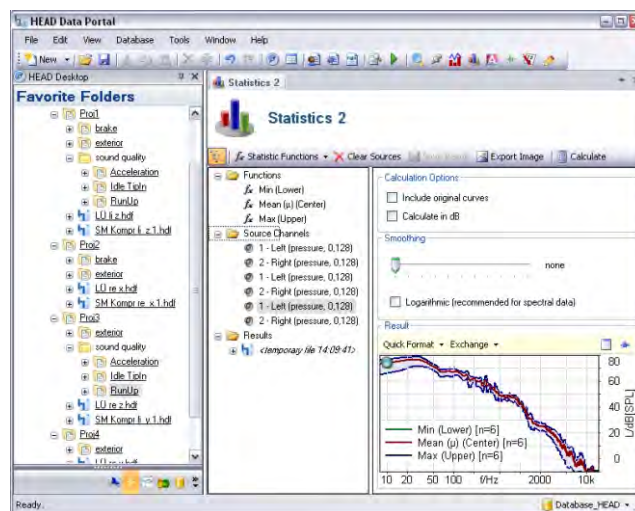
The statistics function supports not only linear smoothing, but also exponential smoothing, which is particularly suited for spectral data sets.

## Integration of the HEAD Data Portal with the HEAD Recorder 2.0 and ArtemiS 11

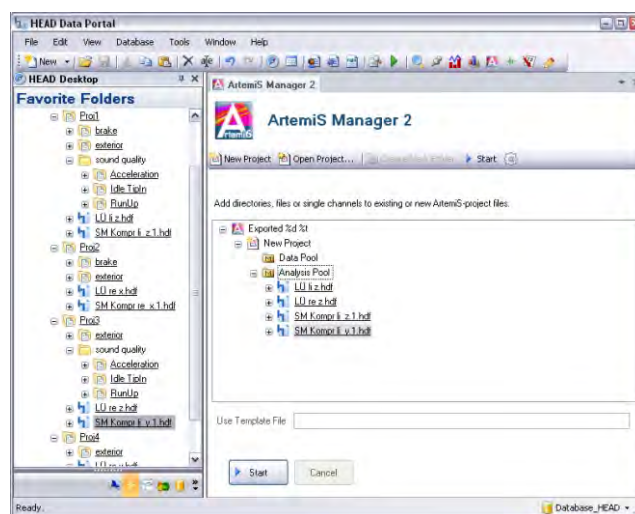
The generation of user documentation directly at the time of recording is fully supported by the HEAD Recorder software (as of version 2.0). Integrated into the flow control of the HEAD Recorder, many steps required for the documentation can be automated conveniently to save time.

For the further processing of the data in ArtemiS (as of version 11), the HEAD

Data Portal provides a powerful module that allows search results to be transferred directly into existing or new ArtemiS projects. The user can use previously saved project templates allowing the compilation of the data in standardized projects. Furthermore, the documentation can be viewed and edited directly in the Source Pool via the context menu.



Several statistical functions provided by the HEAD Data Portal allow an easy evaluation of data (e.g. in a scatter band representation).



Data can be exported directly from the HEAD Data Portal into an ArtemiS project for immediate further processing.

## Delivery Items

- HEAD Data Portal (Code 4660) Setup CD

- Dongle

## MDM Option

- Software extension: "MDM Analysis"

## Requirements

- NET Framework 3.5
- Windows XP (32 Bit: Professional - languages: US / Western European)

1.5 GHz Pentium  
1 GB RAM

or

- Windows VISTA™ (32 bit and 64 bit: Business, Ultimate - languages: US / Western European)

Core2Duo Processor 2 GHz  
2 GB RAM

or

- Windows 7 (32 bit and 64 bit: Professional, Enterprise, Ultimate - languages: US / Western European)  
Core2Duo Processor 2 GHz  
2 GB RAM

## Recommended

- SQL Server 2008 Express Edition, R2 Edition