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ArtemiS SUITE
ASM 10

ArtemiS SUITE
Compact Analysis Module
(Code 5010)
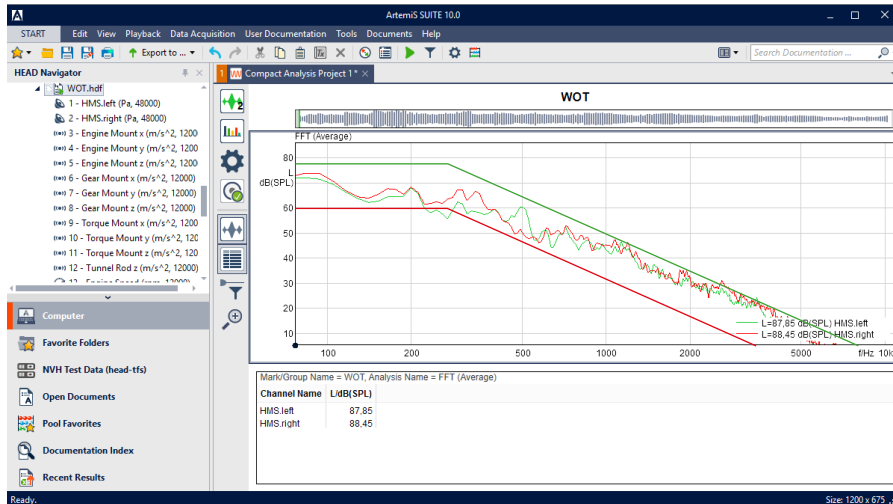
Module for quick and easy analysis of HDF files

Overview

The Compact Analysis Module is an affordable alternative to a Pool Project and the ideal tool for tasks that are to be completed with a few clicks.

This module was designed with a focus on easy operation. Without complicated configuration of diagrams and analyses, results are displayed with a few clicks or at a single click of a button, allowing users to quickly evaluate their measurements. The interface of the module can also be optimized for A/B comparisons of two recordings.

A total of twelve different analyses are available, supplemented by additional tools, such as tolerance schemes, single value tables, etc. These analyses and tools are very easy to use, too, allowing even inexperienced users to quickly identify interfering noise with SQuadriga II or SQobold, for example.

If needed, the Compact Analysis Module can be extended. In connection with the Data Acquisition Module, measurements can be performed and analyzed with the Compact Analysis Module. The Advanced Playback Module allows users to apply playback filters graphically directly in the diagram, and the Data Preparation Module provides a tool for the conditioning of measurement data.

Features

Concept

- One-click analyzing of data files
- Easy-to-use analyses, tolerance schemes, etc.
- Suitable even for inexperienced users

User interface

- Straightforward interface optimized for quick assessment of measurements
- Large buttons for easy mobile operation

Diagram

- Mark limits can be edited
- Information can be attached to curves
- Abscissa and ordinate values as well as harmonics can be read
- Single-value results can be determined for any diagram section
- Axis coupling for a meaningful comparison of results

Analyses

- FFT vs. Time / average / vs. RPM
- Level vs. Time / vs. RPM
- Loudness vs. Time / vs. RPM
- 3rd Octave Spectrum (FFT)
- Order Spectrum vs. RPM
- Order Level(s) vs. RPM
- Sharpness vs. Time / vs. RPM

Additional tools

- Overlay of tolerance schemes
- Display of single-value results in a table at a click of a button
- A-weighting of analysis results for airborne sound channels

Playback

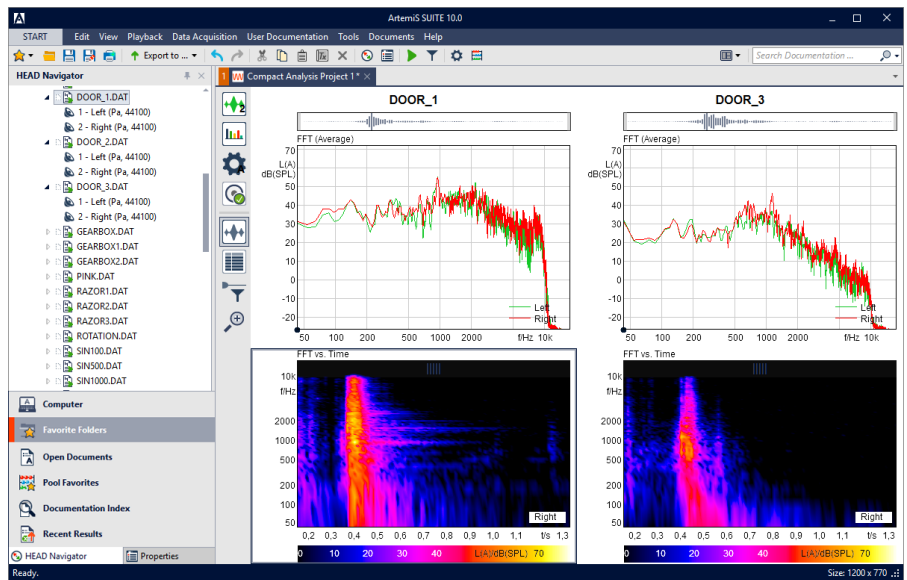- Playback of the selected HDF file via the player

Export

- Export of results: image, PDF, PowerPoint (PPTX)
- ArtemiS SUITE report (requirement: ASM 02)

Easy operation

The Compact Analysis Module was designed for sound analysis after test drives or during quality control on a test bench, for example. All commands are accessible via the large buttons in the toolbar or via keyboard shortcuts, which ensures easy operation even in mobile use.

For example, users can drag and drop a file from the memory of a SQuadriga II or SQobold unit or from the HEAD Navigator into the big diagram, and you see the analysis result immediately. A total of up to six diagrams (including the time domain signal) can be displayed simultaneously in order to perform A/B comparisons of two different data files and analyses.

For quality control, tolerance schemes can be loaded in order to visualize violations of tolerance curves. With a click on the corresponding button in the toolbar, all single-value results are made available. Redundant information is summarized as far as possible in order to ensure that important information remains clearly visible and relevant differences can be easily identified.

The Compact Analysis Module allows users to add a second file to the evaluation, e.g. for an A/B comparison.

Lean selection: files and analyses

- Source Pool for up to 12 data files

- Optimized for A/B comparisons of 2 data files

- Analysis results of 6 data files in a single diagram

- 2 of at large 12 analyses can be selected simultaneously

Comparison: Compact Analysis Project vs. Pool Project

A Compact Analysis Project offers

- simple procedures to achieve analysis results with a few clicks

- common analysis functions with a reduced set of configuration options

- a minimalist, straightforward interface

- a quick data overview

A Pool Project offers

- a comprehensive range of tools for in-depth sound analysis

- customized analyses specifically configured by the user for the respective task

- a customisable user interface

- trouble-shooting and comprehensive sound design

Scope of Supply

- License file:
  ArtemiS SUITE Compact Analysis Module (Code 5010)

Requirements

- ArtemiS SUITE Basic Framework (Code 5000)

Recommended (Extensions)

- Data base, indexing and searching of files and data:
  ArtemiS SUITE Database Module Module (Code 5003)

- Measurements:
  ArtemiS SUITE Data Acquisition Module (Code 5004)

- Online filters:
  ArtemiS SUITE Advanced Playback Module (Code 5011)

- Measurement data conditioning:
  ArtemiS SUITE Data Preparation Module (Code 5024)