

AVEVA Review

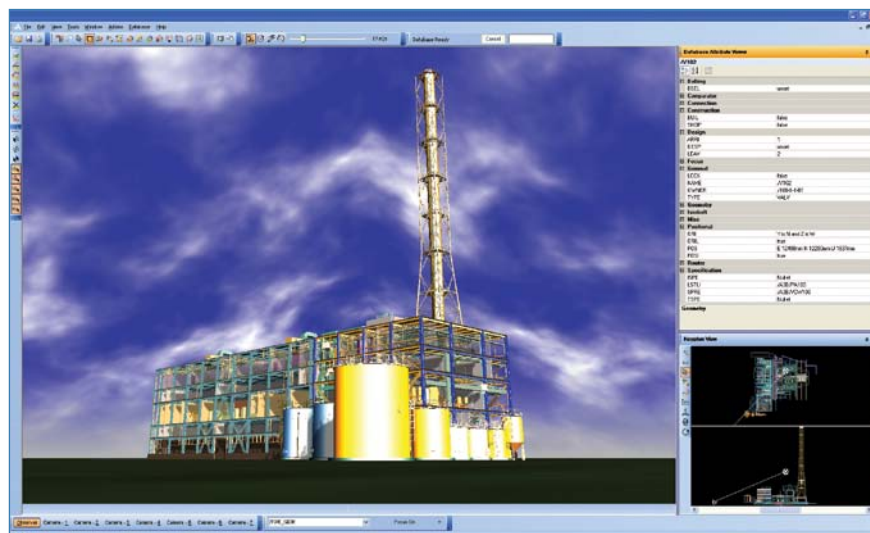
3D model visualisation for design, construction, commissioning, operations and maintenance

AVEVA Review is a highly effective and intuitive 3D visualisation tool for displaying and interacting with plant and marine model data from a range of 3D design systems, principally AVEVA PDMS or AVEVA Outfitting. Review delivers a realistic, easily navigated view of the model, usable by all disciplines throughout the project lifecycle.

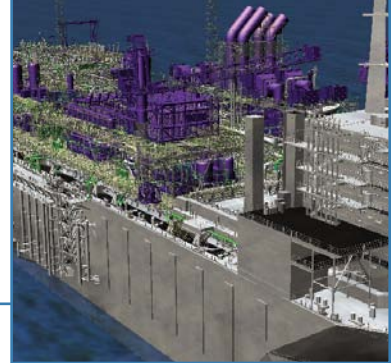
Review is specifically designed to meet today's industry demands for the effective review of every size of project, from the smallest module to the biggest global collaboration. By providing easy access to the underlying design data, Review allows users to freely explore the design model to view areas of interest and check equipment attributes, location and status.

For communicating complex ideas or undertaking multi-discipline project reviews, without the cost and disruption of physical travel, Review provides the perfect visual collaboration link for use at all stages of the project lifecycle, using standard enterprise communications.

Combined with the additional collaborative features of AVEVA ReviewShare, Review enables 3D communication to be used as an everyday working tool by all participants in projects of any size, anywhere in the world.



AVEVA Review visualisation of a PDMS model showing live attribute data



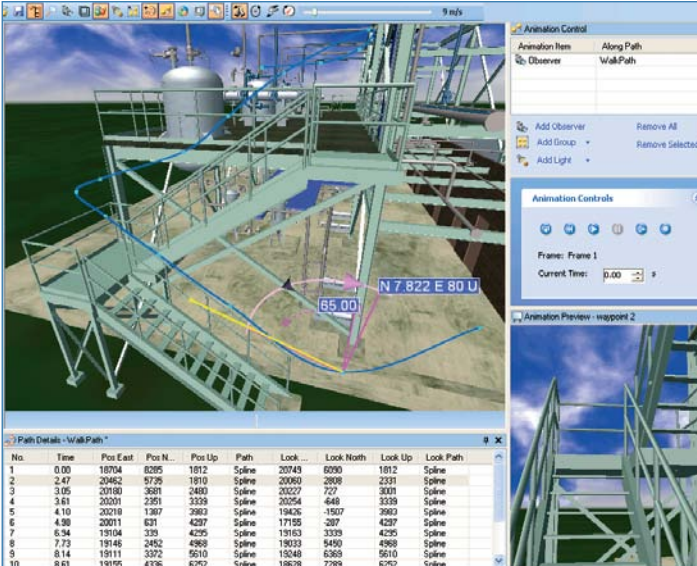
Business Benefits

- **Better quality project proposals**
Use Review to present the conceptual or bidding model convincingly to non-specialist stakeholders.
- **Improved project efficiency**
All project disciplines can assess the progress of the design, with minimum disruption, as it develops.
- **Improved communication**
Intuitive navigation of a single, up-to-date data set enables every discipline to understand the design and contribute effectively.
- **Improved execution of brownfield or refurbishment projects**
Laser-scanned site surveys can be incorporated into the Review visualisation.
- **Increased design efficiency**
Use AVEVA ReviewShare for rapid resolution of day-to-day design queries.
- **Improved planning for fabrication, construction and commissioning**
- **Optimised design for efficient operations**
Perform mechanical handling simulation and evaluate operational, maintenance and emergency procedures at the earliest stage.
- **Reduced risk**
Make HAZOP and safety reviews easier and more thorough.
- **Reduced commissioning cost and time**
Use Review for early workforce training.



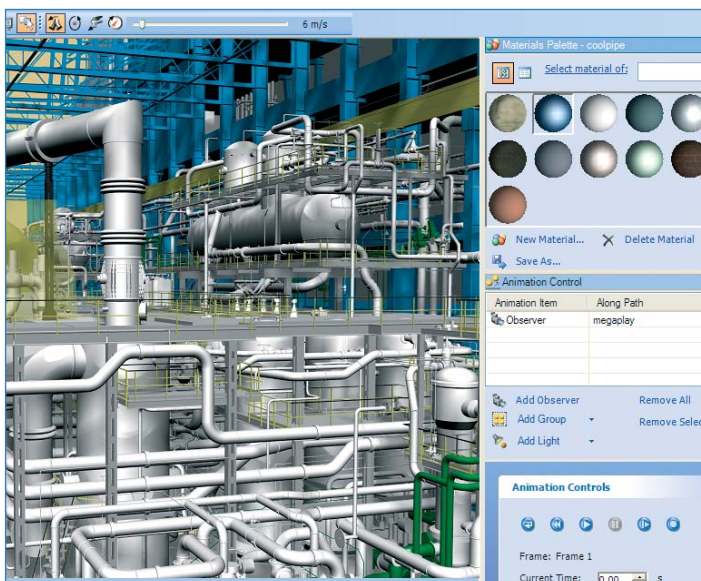
Key Features

Review delivers high-performance 3D model rendering and walk-through for large, complex plant and marine models. The 64-bit version offers dramatically increased capacity and performance when working with extremely large design models.

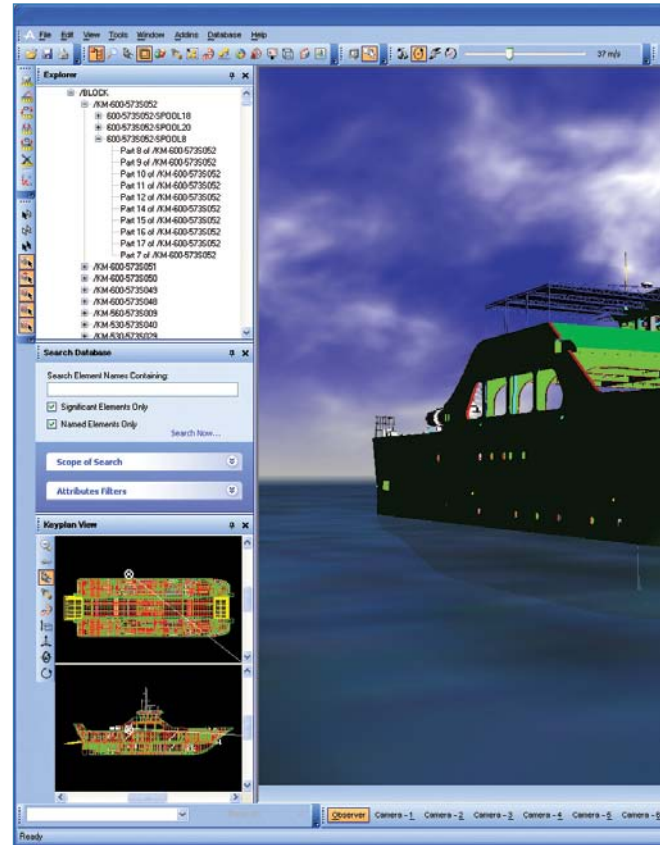


Viewing and editing animation paths within the 3D view

- Interactive graphics, with an easy-to-use interface, maintaining high-performance, real-time 3D rendering of the largest and most complex models.
- Outstanding realism, created by the ability to define multiple lighting and material textures, and apply scenic backdrops, fog and real-time shadow effects.

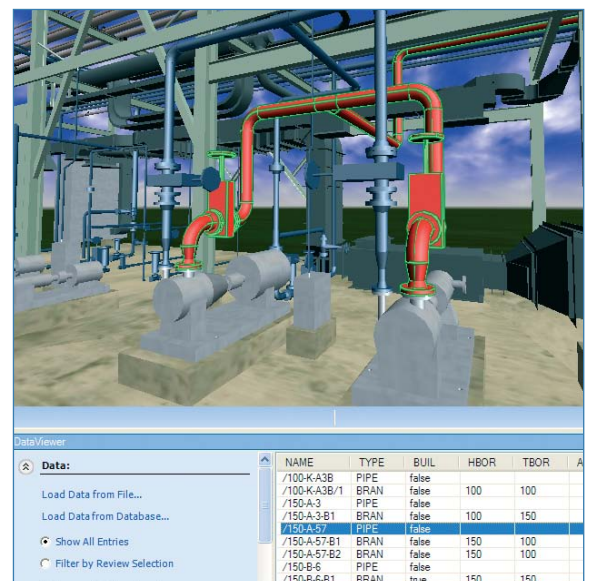


Material, texture and lighting controls for highly realistic visualisation
Courtesy of Paks Nuclear Plant Company, Hungary

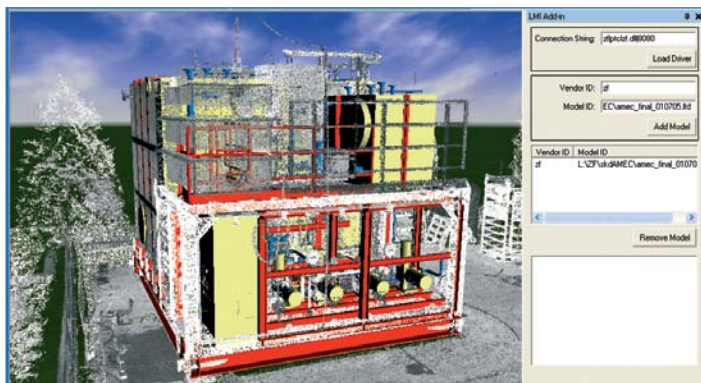
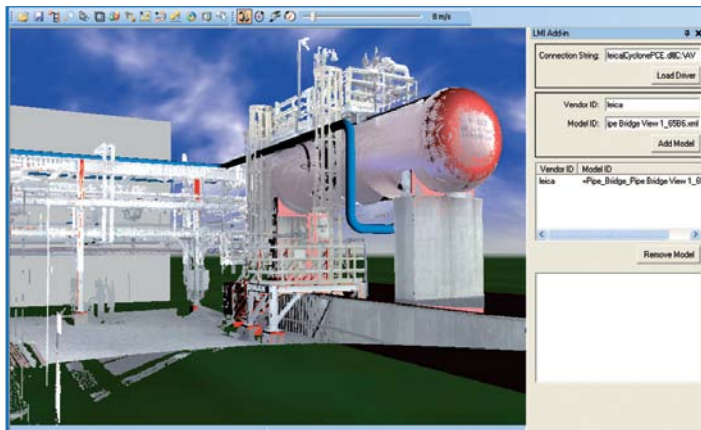
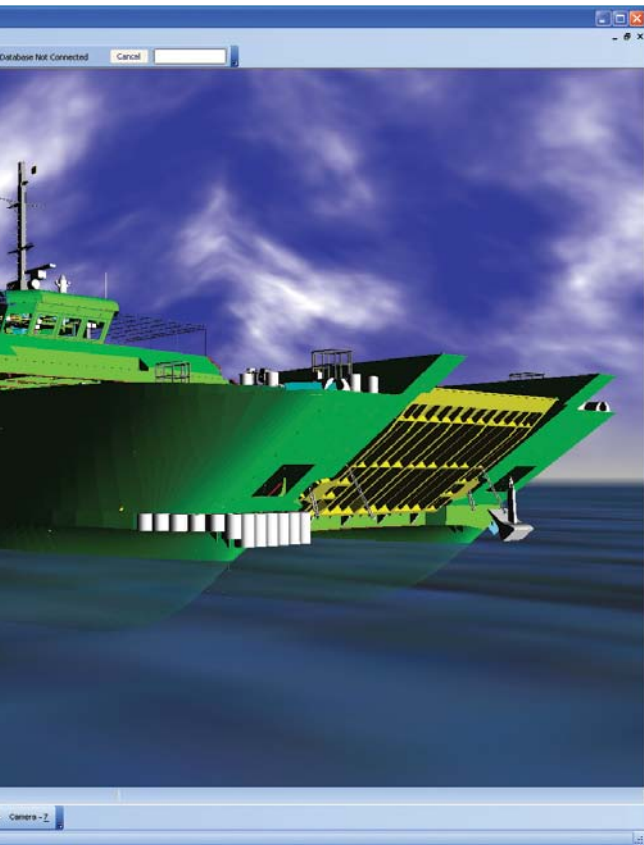


AVEVA Review offers extensive model navigation and search capabilities

- Realistic walk-through animation and motion simulation of items within the model, for mechanical handling evaluation, including interference checking.
- Direct access to the design database for import of up-to-date model geometry and attribute data for effective decision support.

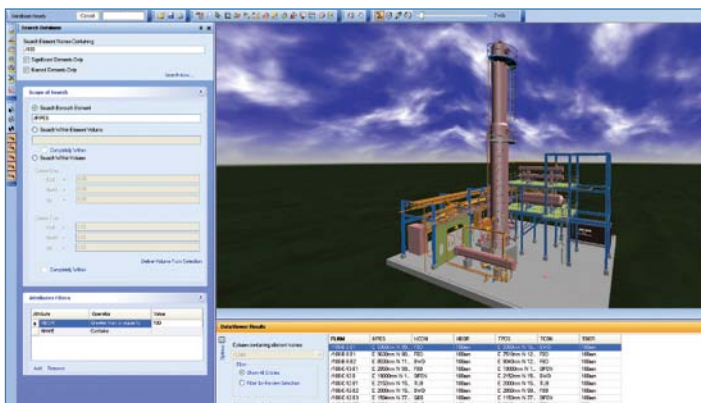


Using the Data Viewer for navigation and visual reporting



Point cloud data can be overlaid onto the design model

- Model query, providing instant access to item identification, tagging, location and attribute enquiries.
- Comprehensive measurement options include:
 - linear/angular
 - point-to-point
 - surface-to-surface
 - axis direction
 - x y z components and true distance.
- Display of the master coordinate grid used in ship design enables users to easily determine the absolute 3D coordinates of features.
- Full interaction with large, streamed models using multiple 3D model formats (including DGN, STEP and IGES files) includes support for element selection, dimensioning, clipping and sectioning.



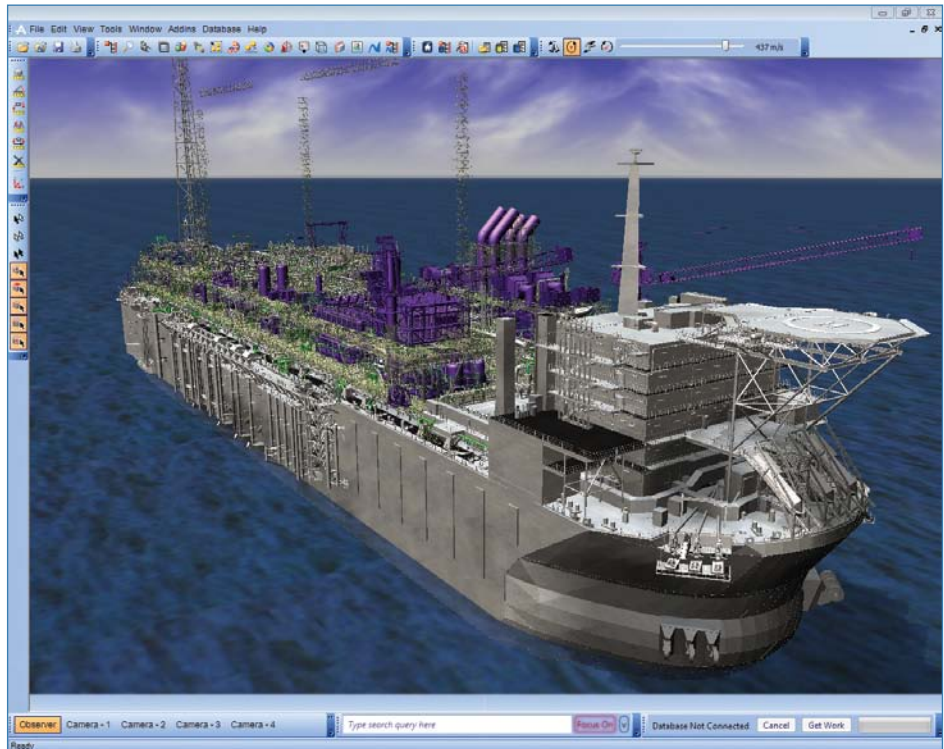
Using the Database Search tool to query objects and attributes direct from the design database



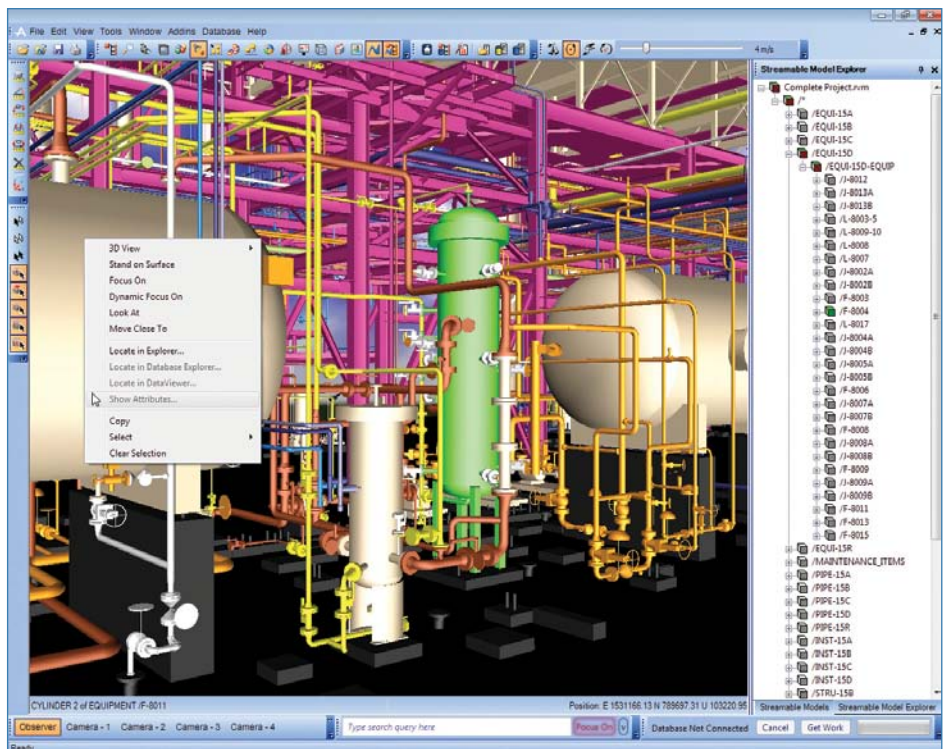
High quality rendering for print and .avi video production
Temelin Power Station in the Czech Republic. Courtesy of CEZ, a.s.

Key Features (continued)

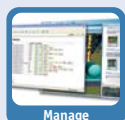
- Scalable visualisation, from laptops to wide-screen reality centres, with 3D stereo support.
- Model export to Wavefront .obj, Adobe Acrobat 3D PDF and Autodesk DWF 3D document formats.
- Global communications support to enable collaborative multi-site project reviews.
- Microsoft .NET technology, providing a familiar user interface, interoperability and extensibility. Straightforward customisation capabilities include lighting and animation controls, and the ability to create custom add-ons to tailor Review to the specific needs of a project.



The 64-bit version of AVEVA Review includes support for large models



A model being streamed into AVEVA Review from a ReviewShare server



AVEVA Review is one of AVEVA's Manage products, which enable global work share, clash management and design review

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AVEVA

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