



# Intergraph Smart® Review

## Powerful and versatile visualization

Intergraph Smart® Review is your problem-solving 3D visualization tool. It is ideal for the visualization and engineering animation specialist who uses the software daily, or the occasional user who needs to review designs and use the 3D model as a graphical interface to access project data linked to the model.

Smart Review is at home in the design center, on the road, in the plant office and on the plant floor. Smart Review provides value throughout the entire plant lifecycle, including HAZOP (hazardous operations) reviews, accessibility studies and downstream projects, including retrofits and upgrades. Load projects of any size. Use Smart Review's unique object streaming technology to display any number of intelligent objects, with as much or as little detail as you want.

### Value proposition

- Design reviews are made simple with available touch-supported tablet mode option
- Productivity is improved by significant gains in performance
- Connectivity to other tools provides up-to-date information from other upstream tools (SmartPlant® Foundation and Intergraph Smart 3D)
- Portability of models and documents combined improves handover to Owner Operators (Orthos, Isos and P&ID drawings can be associated)

- Support to view models in AR/VR devices has been improved by adding direct support in the product and to export to external formats
- Photorealistic effects have been added to the display quality
- The navigation for touch or clicks has been improved for productivity and discoverability
- Connectivity to third-party software has been improved by supporting Smart Review to be driven by URLs

### Extend your functionality

For additional functionality, seven optional modules are available.

#### Collaboration Module

Enable multiple users in different locations to view and interrogate the model at the same time. The Collaboration Module also allows enterprise-wide coordination of design reviews for more effective communication and improved efficiency, while reducing travel time and expenses. This module is built on top of Microsoft® NetMeeting, ensuring security and enhancing connectivity for your team.

## Simulation and Visual Effects Module

Bring life to your 3D model. This module simulates the placement or removal of equipment to review physical clearances, as well as performs motion studies and develops complex motion scenarios. Used in conjunction with the Construction Module, you can visually simulate the construction process, review the simulation on-screen, or create animations for output to video.

## Photo-realism Module

Take your still images to a new level of quality. Ray tracing a 3D model creates depth and realism. You control lighting and display attributes for a realistic image with textures, patterns, shadows and reflections, improving communication to clients and managers. Visualize designs during each stage of the development process and create powerful presentations that communicate and sell your ideas.

## On-site Drawing Generation Module

Bring design and drawing capabilities from the office to your project site. This module features fast, intelligent hidden line display capability – your drawing maintains intelligence even when displayed in hidden line mode. The module also improves communication because you control the way the drawing will appear to others. Reduce the time required to process and display hidden line removal from hours to a fraction of a second.

## Point Cloud Integrator Module

Display laser scanning point cloud data with the plant model and use the data for design reviews. The interface enables products offered by Leica Geosystems HDS, Quantapoint, Trimble and Z+F to display the existing condition of the plant or construction site. This helps

lower the time, effort and cost of process plant retrofit engineering and construction projects. It extends the use of 3D CAD to more projects.

## Construction Module

Take advantage of integrated project scheduling and collision detection functionality. As a construction sequencing tool, Smart Review includes Schedule Review, which turns data from your project planning software, such as Primavera Project Planner and Microsoft Project, into a visual display of the construction or demolition progress.

## API Module

The API module includes programming libraries that enable developers to create programs that run on Smart Review. The API module is not required to run the custom applications, merely to create them. The API module also provides the ability to create a VUE file interactively while inside Smart Review.

## Intergraph FreeView®

Intergraph FreeView is a free viewer to open Hexagon's Asset Lifecycle Intelligence division's 3D models (VUE files) for display and navigation of process, power and marine projects. Users can walk through the plant and select any object in the view to see its associated plant properties (MDB2 file). Easy-to-use, on-screen motion controls allow even the most casual user to walk through complex 3D plants with no training. Industry-standard, gaming-style keyboard navigation is also simple to use and learn.

## About Hexagon

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

[Hexagon's Asset Lifecycle Intelligence division](#) helps clients design, construct, and operate more profitable, safe, and sustainable industrial facilities. We empower customers to unlock data, accelerate industrial project modernization and digital maturity, increase productivity, and move the sustainability needle.

Our technologies help produce actionable insights that enable better decision-making and intelligence across the asset lifecycle of industrial projects, leading to improvements in safety, quality, efficiency, and productivity, which contribute to Economic and Environmental Sustainability.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 22,000 employees in 50 countries and net sales of approximately 4.3bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.