



## SMARTPLANT® REVIEW

### POWERFUL AND VERSATILE 3D VISUALIZATION

Intergraph® SmartPlant® 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.

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

### WHAT'S NEW

The latest version of SmartPlant Review offers improved usability and display performance. New controls for the casual user enhance your 3D model navigation. Capabilities include on-screen view navigation controls (that conveniently fade in and out), a game-style dynamic fly mode, and gaming-style mouse and keyboard controls that are standard in the gaming industry.

The new 3D navigation controls are simple, easy, and intuitive, requiring no end-user training to perform 3D model navigation. These are the same controls found in all of Intergraph's 3D tools: SmartPlant 3D, SmartMarine 3D, SmartPlant Foundation, and SmartPlant Construction. These controls put new and experienced users alike in the driver's seat. User surveys have shown even the most casual users with no previous 3D experience are able to navigate the 3D model without training.

Usability and performance go hand-in-hand. Along with improved navigation, Intergraph has significantly improved display performance. The latest version of SmartPlant Review makes full use

of the available hardware. The better your graphics card, the better your display performance will be. The latest version's performance is as much as 100 percent faster than previous releases. This improvement is significant enough to be noticed by every user. Improved memory management also enables successful reviews of even larger models.

This combination of improved usability and display performance enables SmartPlant Review to replace all other competitive viewers. Take full advantage of these benefits by standardizing on Intergraph 3D technology for your entire enterprise.

### NEW BENEFITS

Benefits offered by the latest version of SmartPlant Review include:

- New on-screen navigation controls with game-style fly mode
- Gaming style mouse and keyboard controls
- 100 percent faster display performance
- Improved memory management for supporting larger models
- New easy-to-use model clipping capability
- New level of performance with quality control slider to easily change display settings
- Main view (graphics, properties, tags, and measurements) can be exported to Adobe 3D PDF format
- New dynamic "zoom to" capability in commands such as Fit View, Fit to Object, and Find Object helps you maintain context while navigating large models
- New on-screen 3D view orientation axis shows view direction during navigation
- Enhanced snapshot and print functions create high-resolution images of any size
- New color palettes provide industry-standard color codes (RAL)

## 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 enterprisewide 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. Raytracing 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, SmartPlant Review includes ScheduleReview, 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 SmartPlant Review API module includes programming libraries that enable developers to create programs that run on SmartPlant 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 SmartPlant Review.

## SMARTPLANT FREEVIEW™

SmartPlant FreeView™ is a free viewer to open Intergraph'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 INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer, and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation, and data management of plants, ships, and offshore facilities. Intergraph SG&I

provides geospatially powered solutions to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I's U.S. federal and classified business.

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