

# SmartPlant Review

## *Hardware and Software Recommendations*

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### Process, Power & Marine



# Hardware and Software Recommendations

SmartPlant Review is a state-of-the-art graphics application, capable of displaying and manipulating very complex 3D models. As such, this technology requires comparable state-of-the-art hardware to ensure a successful, productive, and efficient experience.

Before beginning the installation, verify that your end-user workstation computers meet the following hardware recommendations and software requirements.

## Note

- SmartPlant Review is a 32-bit application and was certified on 64-bit hardware with a 32-bit operating system.

## SmartPlant Review Workstation

### Hardware Recommendations

- 2.8 GHz Intel Pentium 4 processor or higher (Multiple processors or dual-core CPUs recommended for improved performance.)
- 2 GB RAM
- 90 to 250 MB free disk space (Depending on components and modules installed; two physical drives are ideal so that model data can be stored on a drive separate from the software and page file.)
- CD-ROM or DVD drive access, either locally or through a network connection
- 19-21 inch color monitor, capable of a minimum of 1024 x 768 resolution
- Video card designed for OpenGL-based, 3D-intensive scientific and engineering applications
- (Optional) Stereo viewing hardware: non-LCD monitor capable of 95 mHz refresh rate, video card with 3-pin mini-DIN stereo sync output, StereoGraphics CrystalEyes® interlaced glasses (model CrystalEyes Workstation), and CrystalEyes infrared transmitter (model E-2)

### Note

- LCD monitors and LCD projectors are not suitable for stereo viewing due to inherently slow refresh rate. For quality stereo viewing, a monitor must be capable of at least 95 mHz refresh, with 120 mHz or better recommended. High performance DLP projectors also work well.
- (Optional) Digital Joystick

### **Supported Operating Systems**

- Microsoft Windows XP Professional Service Pack 2
- Microsoft Windows 2000 Professional Service Pack 4 (To run SmartPlant Review on Windows 2000, users must be members of the Power User or Administrators permissions groups.)
- Microsoft Windows 2000 Server Service Pack 4 and Advanced Server (TCP/IP enabled)
- Microsoft Windows 2003 Server Service Pack 1 or R2

### **Software Prerequisites**

- Microsoft Data Access Components (MDAC) 2.8.1 (Available on the product CD. MDAC 2.8.1 is delivered as part of Microsoft XP Service Pack 2.)

#### **Important**

- If you are running SmartPlant Review on a non-English operating system and locale, you must download the appropriate locale-specific version of the Microsoft Data Access Components (MDAC) from Microsoft. SmartPlant Review may not work correctly with multi-byte characters when using the English version of MDAC.
- Microsoft .NET Framework 1.1 (Installed automatically during SmartPlant Review set up.)
- Microsoft DirectX 8.1 for Windows 2000/2003/XP systems. 64-bit systems require version 9.0. (Required for using a joystick with SmartPlant Review. Version 8.1 is included in Windows XP Service Pack 1 and is available on the product CD for Windows 2000 users.)
- SmartPlant License Manager 9.0
- SmartPlant License Checkout Utility (Required to run in remote license mode.)
- Microsoft Internet Explorer 6.0 Service Pack 1 (Required for viewing the online documentation delivered with the software.)
- Adobe® Reader version 7.0 or later (Required to view the License Agreement and Printable Guides.)

## Software Compatibility

- Microsoft Access 2000 or later (For more information, see *Understanding Project Databases: An Overview*, page 57.)
- SAT files - ACIS® version 16 or earlier (The SATAACIS.INI file is delivered to the C:\Program Files\SmartPlant\Review folder during installation.)
- SmartSketch® 5.0 or later
- SmartPlant Foundation 3.7 or later
- SmartPlant 3D 6.0 or later
- SmartPlant P&ID 2007 (5.0)
- Microsoft NetMeeting®, Version 3.01.4.4.3385 or higher
- Microsoft Project 98 or Microsoft Project Professional 2003
- Primavera Project Planner® 2.0B (with RA installed), Primavera Project Planner 3.0, and Primavera Engineering & Construction 4.1
- MicroStation SE 05.07.01.14 and MicroStation/J 07.01.04.16 (SmartPlant Review supports PDS models used in conjunction with MicroStation SE and MicroStation J. However, element types new in MicroStation J (not supported by PDS) are not supported by SmartPlant Review.)

### Note

- SmartPlant Review displays MicroStation/J SmartSolids in shaded mode if you change the display setting to Surfaces using the MicroStation/J Change SmartSolid Display tool on the 3D Utilities tool bar prior to opening the project in SmartPlant Review.
- AutoCAD® files, release 2002 or earlier

### Notes

- SmartPlant Review wireframe rendering mode supports AutoCAD single line and multi-line text.
- AutoCAD geometry types not supported include, but are not limited to: hatch lines, arrowheads on leader lines, dimensions, line styles, true type fonts, arc-aligned text, attribute definitions, image/raster files or wipe out images, paper space entities, special classes or proxy objects, and shape files.
- AutoCAD layer names or number of layers cannot be greater than 63. If the number of layers is greater than 63, the layer number is computed modulo 63, and the geometry will still be displayed.