

Sandia MEMS Visualization Tools 2.2.6.1 Update

INTRODUCTION

This update is intended for use with the Sandia Advanced MEMS Design Tools 2.2.6.1 Update and the Sandia Visualization Tools. You must have the MEMS Design Tools 2.2.6.1 installed before this update will function correctly. It will either add or update the Visualization Tools.

Your serial number, supplied with your Visualization Tools CD is required.

This update is inclusive and can be applied to the Sandia MEMS Visualization Tools 2.2, 2.2.2, 2.2.3, 2.2.4, 2.2.5, 2.2.6.

CONTACTS

For information regarding this update, please send email to drt@drc.sandia.gov.

SYSTEM REQUIREMENTS

The following minimum system requirements must be met to effectively run this CD:

CPU:	Pentium IV or better
Clock Speed:	3.0 GHz or faster
Memory:	2 GBytes
Hard Drive:	2 GB free of disk space
Operating System:	Windows XP, Windows XP x64, or Windows 7
Graphics Card:	Nvidia card recommended 128MB OpenGL-capable graphics card 24 Bit or True Color Mode
Monitor Resolution:	1280 X 1024 or higher
Software:	AutoCAD 2010 - 2013 Microsoft Internet Explorer 7.0 Sandia Advanced MEMS Design Tools 2.2.6.1 Sandia Visualization Tools 2.2, 2.2.2, 2.2.3, 2.2.4, 2.2.5, or 2.2.6.

These specifications are the same as those recommended for AutoCAD 2013. Some portions of the software will run on systems with lesser specifications with reduced performance.

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RELEASE NOTES

Version 2.2.0 01/07/04

Major revision to support AutoCAD 2004

Version 2.2.2 09/22/05

Updated for use with AutoCAD 2006.

Improved 2D Visualizer intersection extraction.

Added support for MMPoly0_cut layer.

Updated documentation.

Version 2.2.3 01/26/07

Updated for use with AutoCAD 2007.

Added PLANAR_ETCH (replacing PLANAR_DEP) to 2D Visualizer.

Added support for PTNMetal and PTNMetal_cut layers.

Updated documentation.

Fixed hour-glass bug in 2D Visualizer.

Version 2.2.4 02/27/08

Updated VBA interfaces for use with AutoCAD 2008/2009 64-bit.

Updated 2D Visualizer to improve overlapping vertex detection and wet etch coverage. Added feature to load a non-standard process and documented the process definition file.

Added PLANAR_ETCH (replacing PLANAR_DEP) to the 3D Modeler.

Updated menus to support large icons.

Version 2.2.5 09/30/09

Updated AutoCAD macros to work with Microsoft Update KB960715.

Added support for AutoCAD 2010.

Fixed 2D Visualizer bug that crashed when filenames were greater than 40 characters.

Removed obsolete component 3D_SNL_BONDPAD_C00.

Replaced 3D_SNL_PandP_BONDPAD24_A00 with 3D_SNL_PandP_BONDPAD24_B00.

Added 3D_SNL_PandP_BONDPAD48_A00.

Version 2.2.5.1 03/03/10

Updated 3D Modeler interface for AutoCAD 2010 64-bit. Corrects problem when 3D Modeler is invoked:

"License information for this component not found. You do not have an appropriate license to use this functionality in the design environment".

Version 2.2.6 01/10/12

Updated 3D Modeler interface for AutoCAD 2012 64-bit.

Added Modeler auto-detection of PD file in current drawing directory.

Revised the following bond pad 3D models:

SNL_ELECSTC_BOND_PAD_A02

SNL_ELECSTC_BOND_PAD_METAL_A03

SNL_ELECSTC_BOND_PAD_SUB_A02

SNL_ELECSTC_BOND_PAD_SUB_MET_A01

SNL_PandP_METAL_BONDPAD42_B01

SNL_PandP_METAL_BONDPAD48_A01

Revised these parts with new 3D models:

SNL_DIAG_TRA_A01

SNL_SYMDR_ACTUATOR_C00

SNL_SYMDR_MICROENGINE_C00

Added a thermal actuator, SNL_TA_P123_300x3p5_2i4x2.

Version 2.2.6.1 10/31/12

Dropped support for AutoCAD 2009 and Windows Vista.

Added support for AutoCAD 2013.

Separated menus to allow Design Tools update without overwriting Visualization Tools menus.

Updated 2D Process Visualizer:

- added 64-bit version
- added 10nm Extra High Resolution view
- added 4x Z-axis stretch

Exposed 2D and 3D MEM file writer for batch file use.