

# Readme.txt - EasyViewStl Version 0.7.5.0

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## 1. About EasyViewStl Version 0.7.5.0

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EasyViewSTL is an easy to use tool for viewing files in STL format, designed with performance in mind, and available completely free of charge.

You can get the software with an english or german user interface. EasyViewStl is mobile, it can be used without installation. Only a small amount of space on a storage device is required. Just unpack the ZIP file to an appropriate folder.

EasyViewStl is able to read and write STL files in ASCII and BINARY format, and to convert the 3D file formats IV, OBJ, OFF, PLY, and VRML97/WRL to BINARY STL format.

Large STL files are processed, which may contain up to 10,000,000 triangles. When opening a STL file, the data are analyzed automatically, and respective properties of the model are displayed.

The program offers a wide range of view modes and settings to ensure the best possible viewing experience, like Standard Views und Perspective Views, coloring, pixel widths, lighting and shading, wireframe and wireframe-overlay representation.

It is also possible to move and rotate the model view in every direction at any time. The rotation centerpoint/-axis can be selected from the model. Zooming, Panning, Centering, and Rotating the model view can be done by simple mouse movements or keyboard shortcuts.

Screenshot of the current view, BMP-File generation, scaled and full-page printing for any paper size of installed printers is supported. Different pixel dimesions for the view can be set.

The automatic-adaptive 3D grid feature makes it possible to better

understand the model dimensions and measurements.

EasyViewStl allows to alter the dimensions and location of the model in 3D space through different 3D coordinate transformations.

Other features of EasyViewStl are the creation of sliding cross-sections, display of normal vectors, boundary segments, and statistical Information.

Thus the program is able to point out the potential problems of the 3D model.

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#### 4. System Requirements, Installation, and Operating Instructions

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For operation of the software, the following system requirements, recommendations and hints are valid.

- A conventional PC with x64 architecture, at least 6 GB RAM, 3 GHz CPU recommended.
- Graphics adapter with at least 1 GB DDR RAM and device driver support for OpenGL® Version 2.0 and later.
- A Monitor with at least 1024x768 pixels resolution, keyboard and mouse.
- Microsoft Windows® 7 x64, or Windows® 8 x64, or Windows® 10 x64. Any Windows® 32-Bit system is unsuitable.
- The performance of EasyViewStl heavily depends on the capability of the hardware used and on the number of triangles of the model.
- The software does not need any installation. Just unpack the distribution file to an appropriate folder. About 6 MB of storage space are needed.
- The file type STL will not be registered by EasyViewStl, because Microsoft Windows® uses this file type for another purpose.
- To read the User Manual, software for viewing files in PDF format has to be installed.

For further information on EasyViewStl see the EasyViewStl User Manual.

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#### 5. Whats New

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New:

- Sliding planar 3D cross-sections
- Different 3D coordinate transformations of geometry
- Setting of different viewport pixel-dimensions
- Full-Page printing on installed paper sizes
- Wireframe-Overlay representation of model
- Conversion of 3D file formats IV, OBJ, OFF, PLY and VRML97/WRL to STL

Changes:

- Migration to x64 architecture, no further support for x86 systems
- Maximum number of triangles in STL files raised to 10,000,000
- Simplified dynamic handling of model views
- Extended list of keyboard shortcuts
- Revised folder presets for reading and writing files
- Optimized image quality of screenshots, BMP-files, and printer
- On/Off of blinking copyright information in viewport corner
- Revised Help menu
- Revised dialog windows, menus, and toolbars
- Some minor bugs fixed

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6. Contact

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<https://www.gcad3d.org/EasyViewStl.htm>

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