3DWEB Library

STUDEC technical data solutions

Requirements

Hardware: any system running an HTML 5 Web browser

Operating System: All, including mobile operating systems

Browser: Chrome, Internet Explorer 11, Edge, Firefox and most of browsers compliant with HTML5 and 3D canvas, including mobile and tablet.

Services

Annual maintenance includes upgrades to latest version and 24/7 request web site

License model

Converter: license for a designated server
Browser Framework: free deployment

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Watch your 3D models everywhere

Overview

STUDEC 3DWEB is a 3D solution designed for technical data display. It is fully integrated in your authoring production flow, parallel to your 2D illustration workflow.
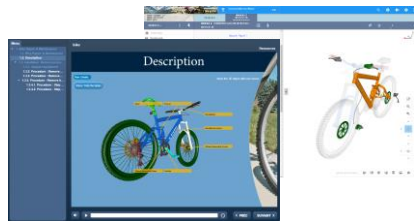
Applications

3DWEB provides end users with easy:

- ✓ IPC display,
- ✓ Maintenance task display,
- ✓ 3D browsing,
- ✓ 3D animations.

Benefits

- ✓ Enhance the appearance of your application whatever the domain: technical documentation, training viewer, demonstration and more.
- ✓ Zero deployment cost: it works with no plugins for any latest version of HTML 5 compliant browsers.
- ✓ Zero hardware cost: 3DWEB uses only standard technologies including HTML5, WEBGL, JavaScript, and does not require specific hardware.
- ✓ Easy integration in your application: the example below shows this integration in an S1000D 4.1 Interactive Electronic Technical Publication.
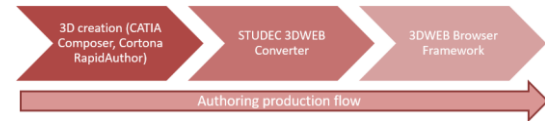

- ✓ Secured: 3DWEB internal format is specific and cannot be used by another tool. It protects your 3D data from retro-engineering.
- ✓ High Performance: 3DWEB displays 12 frames per seconds for 2 500 000 polygons. Our streaming technology is 4 to 8 times faster than competing products to load and display 3D models.

Product

3DWEB includes:

- ✓ An authoring user guide.
- ✓ STUDEC 3DWEB Converter converts 3D data from CAD tools into 3D format.
- ✓ STUDEC 3DWEB Browser framework and API is integrated in your WEB application to display 3D model, compliant with Angular and JQUERY.

Converter features

- ⇨ Model optimization
- ⇨ Compliant with Cortona CAD tools, CATIA composer [1]
- ⇨ Texture and background colour definition
- ⇨ Crease angle optimization
- ⇨ Statistics
- ⇨ Command line

Browser framework features

- ⇨ Compliant with latest HTML 5 browsers, including IPad and Android browsers
- ⇨ Developer guide
- ⇨ Compliant with W3D models
- ⇨ Real time texturing, rotation, zoom, span, fly
- ⇨ Viewpoint manager: 3D animation, view point, play/pause, real time texturing, object opacity
- ⇨ Event manager for 3-button mouse and multi-touch
- ⇨ Automatic 2D hotspot display
- ⇨ Fast loading with streaming technology
- ⇨ Object picker, Colour picker
- ⇨ Clip pan on 3 axes
- ⇨ Screenshot for printing
- ⇨ Phantom management

[1] Included in next version