

# SOLIDWORKS VISUALIZE

## OBJECTIVE

SOLIDWORKS® Visualize enables anyone to create professional, photo-quality images, animations, and other 3D content in the fastest and easiest way possible, enabling designers, engineers, and content creators to enhance their 3D decision making experience. Users will design and market products with more impact by turning imagination into reality with SOLIDWORKS Visualize as the “camera” for their CAD data.

## OVERVIEW

SOLIDWORKS Visualize helps organizations and nontechnical users leverage 3D CAD data to create photo-quality marketing content that is print and web-ready in minutes. From static images to animations, interactive web content, and immersive Virtual Reality (VR), SOLIDWORKS Visualize delivers graphical content that depicts products in the real world and elevates the design process.

By improving concepts throughout the design, development, and marketing phases, SOLIDWORKS Visualize help users select, validate, improve, and sell the best and most robust design concepts before committing expensive engineering, prototyping, and marketing resources to the project. It helps reduce errors and ensure that products get to market faster than ever before.

## BENEFITS

- See what your products look like in the real world—in minutes.
- Improve internal design, engineering, and sales reviews.
- Reduce the cost and number of physical prototypes.
- Make more educated decisions earlier in the development process, saving valuable time and money.
- Create immersive VR content for enhanced internal reviews and viral consumer experiences.
- Picture-perfect content allows your design pitch to stand out from the crowd and close more business.
- Create content faster and more efficiently with integrated productivity tools.
- Deliver photo-quality imagery and content to marketing teams much earlier to help create final marketing layouts, well before the first prototype is produced.
- Maximize design time, achieve a better final product, and get products to market faster—beating your competition.

## COMPETITIVE ADVANTAGES

### Graphics Processing Unit (GPU) Accelerated Rendering

SOLIDWORKS Visualize can leverage one or many GPUs in a single machine or across a network, which dramatically increases rendering performance over CPU hardware. Utilizing NVIDIA® graphics cards for rendering is much faster than competitor CPU technology and helps users speed up their daily workflow, generating more content.

### Hybrid Render Mode

Besides leveraging one or many GPUs or CPUs, SOLIDWORKS Visualize can leverage both GPU and CPU simultaneously (Hybrid mode) in a single machine or across a network. This rendering mode dramatically increases rendering performance and allows for entry-level machines to have increased performance to generate content faster.

### Physically Based Raytracing

Using NVIDIA’s Iray® render engine inside of SOLIDWORKS Visualize, users view a precise and physically correct representation of their CAD model, as if they had physically produced it. Lighting, materials, and form all come together realistically without sacrificing visual quality. Physically-based raytracing is more than just pretty pictures—it is critical digital accuracy that shows what designs will look like in the real world.

### Intuitive User Interface

SOLIDWORKS Visualize lets users work like they would in a photo studio, moving the camera around their product and easily “taking pictures” of their CAD data. SOLIDWORKS Visualize’s interface, with integrated viewport and its lack of complex node-based materials is designed for those who do not have time to learn a complex new tool.

### Support for 25+ CAD File Formats

No matter what CAD package companies use to model their projects, SOLIDWORKS Visualize has them covered. Users can import over 25 different CAD file formats, including common generic formats such as IGES, STEP, and OBJ. They can choose from several Part Grouping types upon import, making it easier than ever to go from fresh import to final render.

## CAPABILITIES

### SOLIDWORKS Visualize Standard

SOLIDWORKS Visualize Standard is the fastest and easiest route to photo-quality images for anyone who needs to take “photos” of their 3D data, cutting costs and accelerating the time to market.

- Create photo-quality images at unlimited resolution
- Advanced multi-layer materials
- Accurate simulation of real-world lighting with High Dynamic Range (HDR) support, for photorealism without cumbersome manual lighting techniques
- Show off inner complexity with cut planes (section views) and fading the opacity of parts and models
- Integrated connection to the SOLIDWORKS online Community of over 1000 free assets
- Decals (interactive stickers) support and real-life placement
- Support for professional texture maps (bump/normal, specular, alpha, and color)
- Interactive part splitter for separating surfaces without going back to CAD modeling tool
- Preset camera filters to enhance images and make them pop off the screen
- SOLIDWORKS Visualize Standard is included at **no cost** with each active SOLIDWORKS CAD Professional or Premium subscription!

### SOLIDWORKS Visualize Professional

SOLIDWORKS Visualize Professional allows users to tell a deeper story with their CAD data by generating photo-quality imagery, animations, interactive web content, 360-degree spins, and immersive Virtual Reality (VR) to effectively communicate the most complex design details.

- PowerBoost real-time network rendering: stream raytracing directly to your viewport from your Visualize Boost render farm
- Full animation suite: parts, models, appearances, environments and cameras

- Integrated animation ribbon for easy camera animation setup
- Rapidly generate colorways and product variations by using configurations
- Two types of interactive web content (interactive image and panoramas)
- Instantly increase productivity with the integrated render queue
- Customizable camera filters and post-processing
- Integrated advanced lighting techniques of Sun & Sky and Sun studies
- Present photo-quality designs in real-time with Presentation Mode and adjustable baked lighting

### SOLIDWORKS Visualize Boost (Add-on to Visualize Professional)

SOLIDWORKS Visualize Boost instantly increases render speed and content productivity by sending render jobs to a dedicated cluster of machines.

- One seat of Visualize Boost is included at **no cost** with each seat of Visualize Professional on active Subscription!
- Stack up multiple render jobs in your Render Queue and offload your local machine, to keep using Visualize, CAD, or other demanding applications.
- Create and manage your Visualize Boost render farm from an easy-to-use webpage.
- Leverage both CPUs and GPUs across your network.

## Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

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