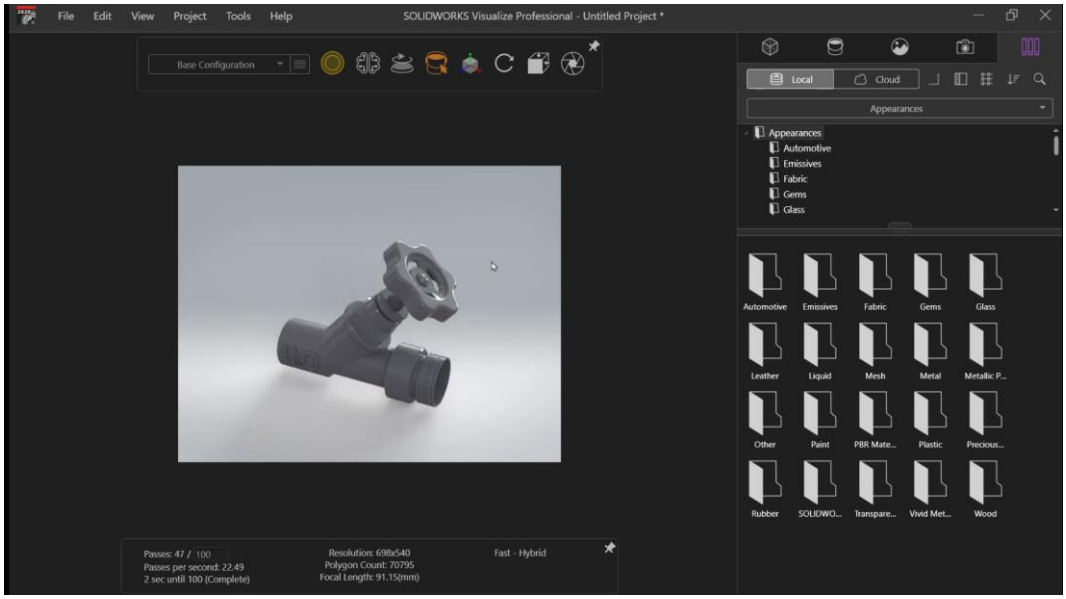
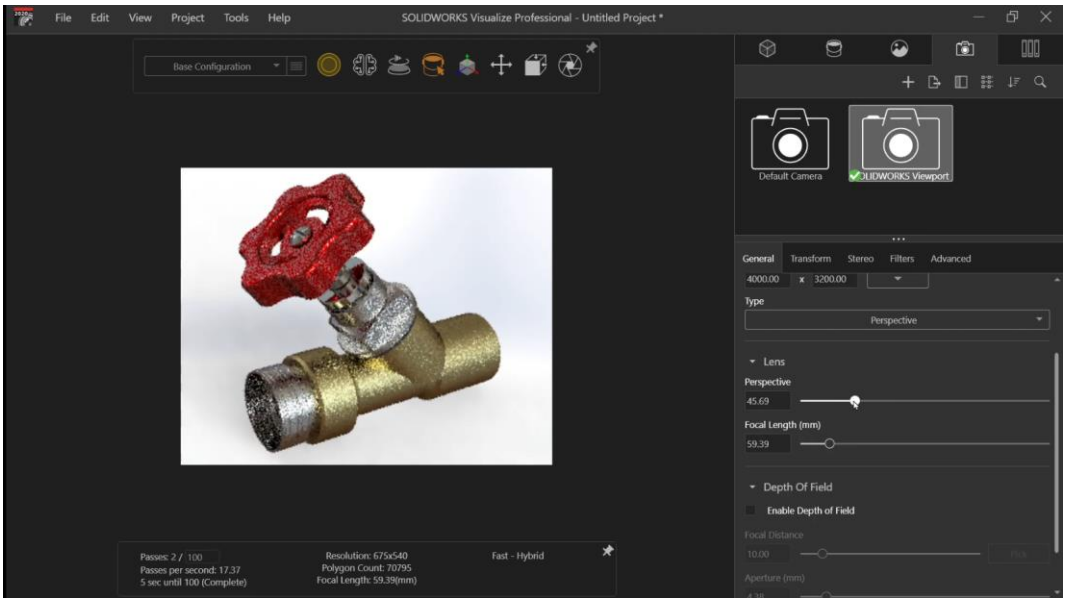
BEACON Newsletter - September 2024

The First Look of SOLIDWORKS Visualize

SOLIDWORKS Visualize is a powerful 3D rendering tool designed to help designers, engineers, and other professionals create high-quality, photorealistic images, animations, and interactive content from 3D CAD models. It allows users to transform complex engineering designs into visually compelling content with ease, thanks to its intuitive interface and robust features.



SOLIDWORKS Visualize supports a wide range of materials, lighting effects, and environments, enabling users to produce stunning visuals for presentations, marketing, and design validation.



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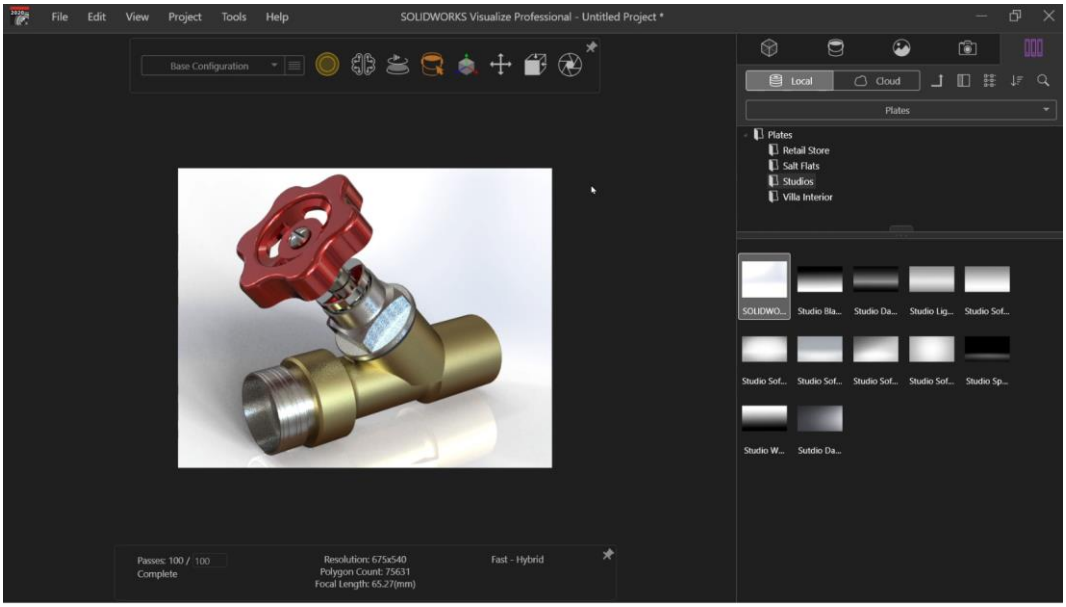
Whether for product development or promotional purposes, SOLIDWORKS Visualize enhances communication by bringing ideas to life with exceptional realism.

It's a standalone application within the SOLIDWORKS ecosystem. While it integrates seamlessly with SOLIDWORKS CAD, you don't need SOLIDWORKS CAD installed to use it. Visualize imports 3D models from various formats and allows direct export from SOLIDWORKS CAD for easy creation of high-quality renderings. Integration features like live CAD updates enhance workflow efficiency and consistency between design and visuals.



Key highlights of SOLIDWORKS Visualize include:

1. Photorealistic Rendering: Offers high-quality, photorealistic images and animations, enabling users to create realistic representations of their 3D models with accurate lighting, shadows, and reflections.

2. Ease of Use: Features an intuitive, user-friendly interface that allows even those with minimal experience in 3D rendering to produce professional-quality visuals quickly and efficiently.

3. Real-Time Ray Tracing: Supports real-time ray tracing, allowing users to see changes to lighting, materials, and camera angles instantly, improving the efficiency of the design process.

4. Comprehensive Material Library: Includes a vast library of predefined materials and textures, which can be easily applied to models, saving time and ensuring consistent quality.

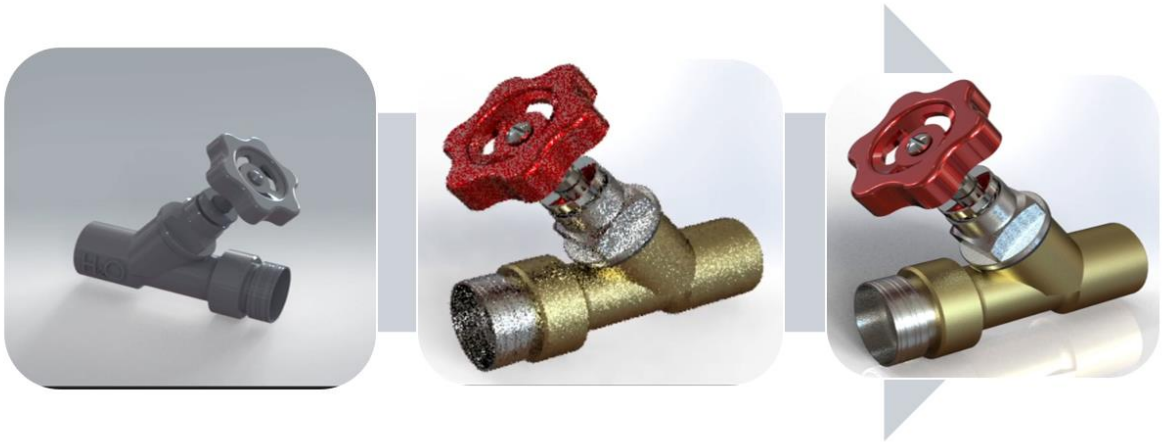
5. Advanced Animation Capabilities: Enables users to create dynamic animations that showcase product features, assembly processes, or any other aspect that requires motion to be effectively communicated.

6. Virtual Reality Integration: Supports VR content creation, allowing users to experience their designs in a virtual environment, enhancing the ability to review and validate designs in a more immersive way.

7. Cross-Platform Compatibility: Works seamlessly with other SOLIDWORKS tools and supports a variety of file formats, making it easy to import models from different CAD software.

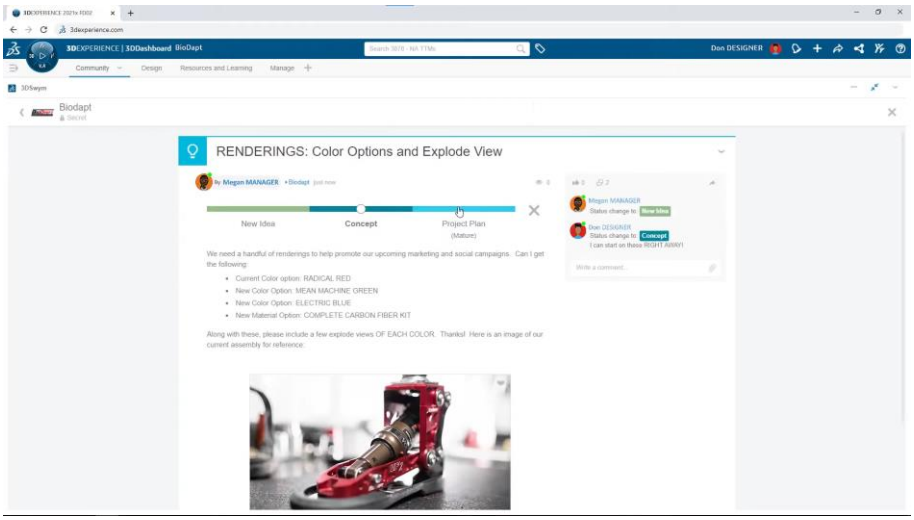
8. Interactive Content: Facilitates the creation of interactive 3D content, which can be used for more engaging presentations, allowing viewers to explore the model from different angles and perspectives.

These features make SOLIDWORKS Visualize a versatile and powerful tool for transforming 3D CAD models into compelling visual content for a wide range of applications.

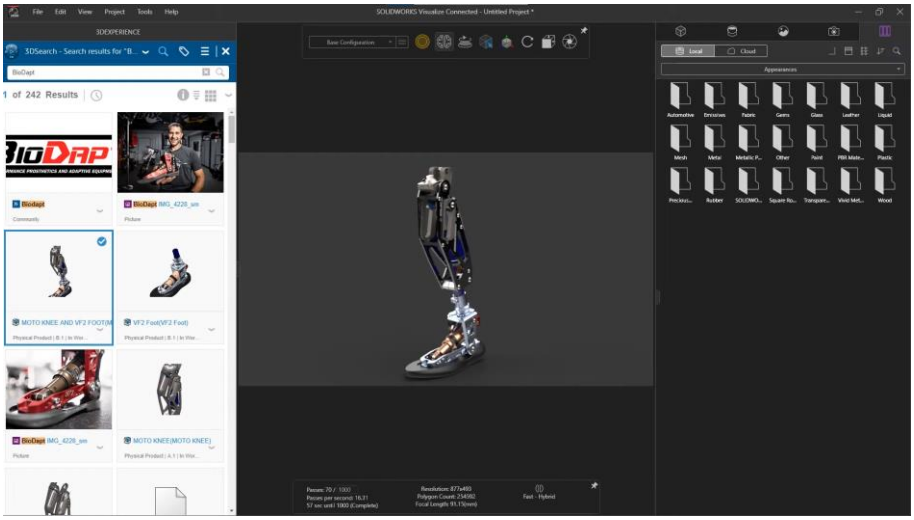


SOLIDWORKS Visualize Connected offers several key advantages:

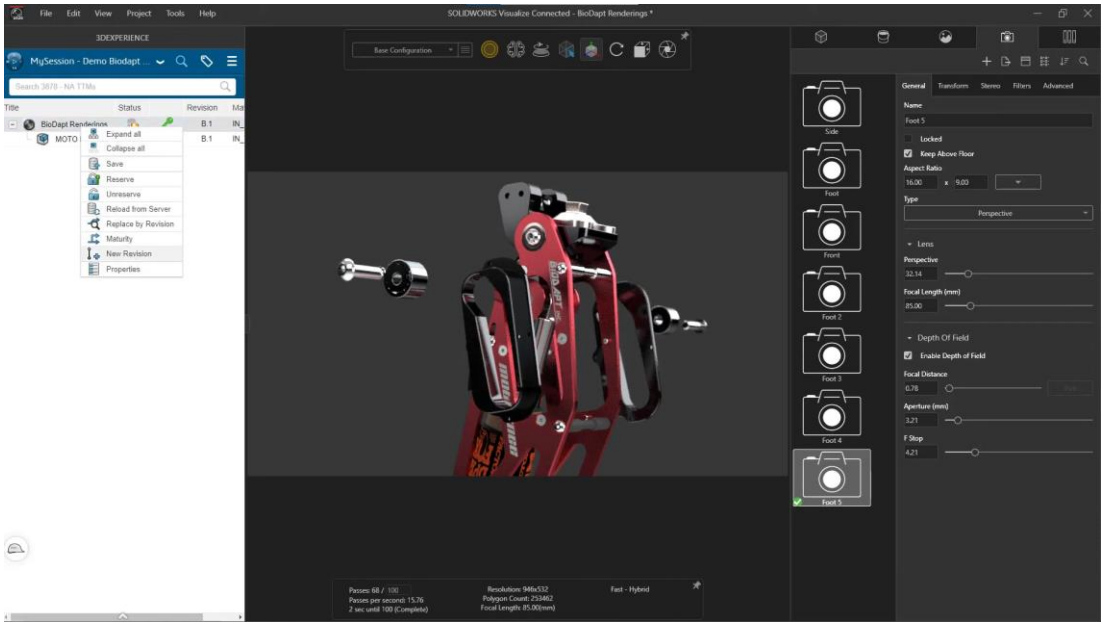
1. Centralized Data Management: The 3DEXPERIENCE platform provides a unified environment where all design data, including models and renderings, can be stored, managed, and accessed. This ensures that the latest versions of files are always available, reducing the risk of errors and enhancing collaboration across teams.
2. Seamless Collaboration: By connecting SOLIDWORKS Visualize to the 3DEXPERIENCE platform, team members can easily share visual content with stakeholders, regardless of their location. The platform supports real-time collaboration, allowing designers, engineers, and other team members to review and provide feedback on visual content directly within the platform.



3. Enhanced Workflow Efficiency: The integration streamlines workflows by eliminating the need to manually transfer files between different systems. Changes made to 3D models in SOLIDWORKS are automatically updated in SOLIDWORKS Visualize, ensuring that renderings are always based on the most current design data.

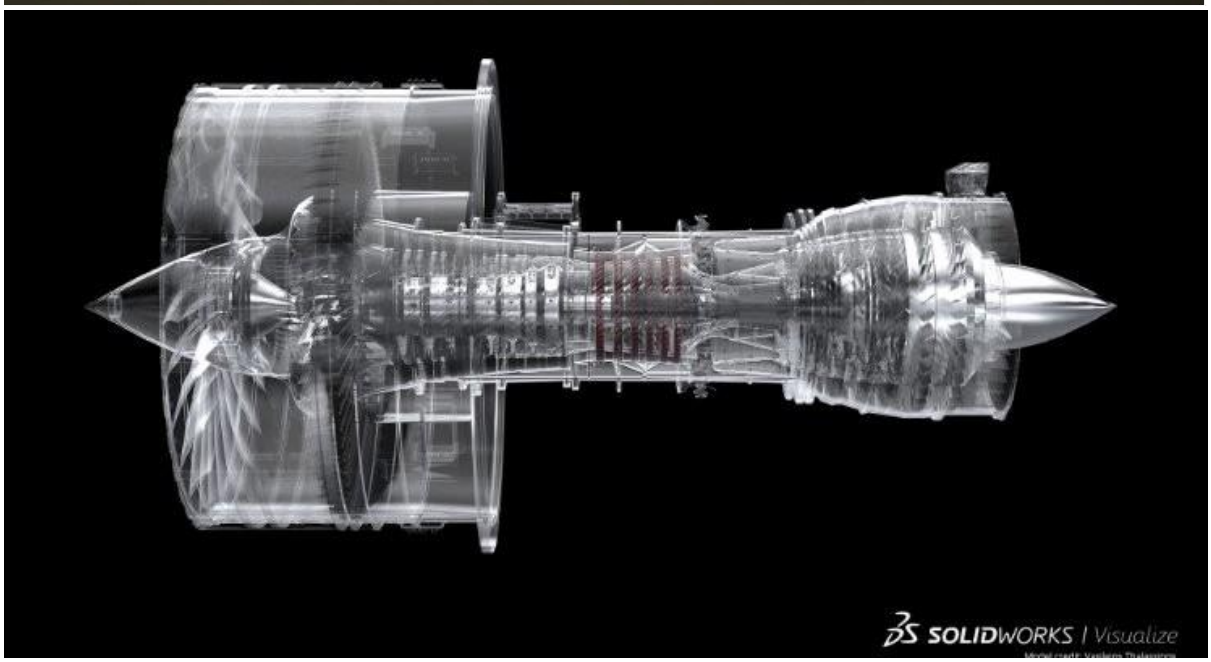


4. Improved Design Validation: The combination of SOLIDWORKS Visualize's rendering capabilities with the 3DEXPERIENCE platform's simulation and analysis tools allows for more thorough design validation. Users can visualize how designs will look and perform in real-world conditions, leading to better-informed decisions and reduced time-to-market.
5. Scalability and Flexibility: The 3DEXPERIENCE platform supports a wide range of applications beyond design and rendering, such as project management, simulation, and manufacturing. Integrating SOLIDWORKS Visualize into this ecosystem provides flexibility and scalability, allowing companies to expand their capabilities as needed.
6. Access to Cloud-Based Tools: Integration with the 3DEXPERIENCE platform allows users to leverage cloud-based tools and resources, enabling them to work on high-quality renderings without needing powerful local hardware. This accessibility is particularly beneficial for remote work and distributed teams.
7. Consistent Branding and Marketing: By centralizing visual content on the 3DEXPERIENCE platform, companies can ensure consistency in branding and marketing materials. All visual assets can be easily managed, updated, and reused, leading to more cohesive and professional presentations.



Overall, integrating SOLIDWORKS Visualize connected with the 3DEXPERIENCE platform enhances collaboration, streamlines workflows, and provides greater flexibility, ultimately leading to more efficient and effective product development and marketing processes.

Few Rendered Images



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