

FUNCTIONALITY	Visualize Professional	Visualize Standard
<b>RENDERING</b>		
Hardware agnostic, unbiased, interactive wysiwyg pathtracing using NVIDIA iray (Accurate Mode)	●	●
Hardware agnostic, biased, interactive wysiwyg raytracing using NVIDIA iray (Fast Mode)	●	●
Hardware agnostic, high quality, interactive wysiwyg rasterizer (Preview Mode)	●	●
Supported techniques such as global illumination, ambient occlusion, screenspace shadows, IBL, color bleeding, dispersive caustics, unlimited raybounces, refraction, rough reflections and more.	●	●
Automatic “Blending” between rendering modes	●	●
HDRI lighting	●	●
Light emission from geometry	●	●
Ground reflectivity and roughness	●	●
Rasterized baked lighting	●	
Rasterized accumulation	●	
<b>INPUT</b>		
Solidworks (SLDPRT/SDLASM)	●	●
Alias (WIRE)	●	●
3D PDF	●	●
3DXML	●	●
ACIS (SAT)	●	●
IGES	●	●
STEP	●	●
Collada (DAE)	●	●
Pro/E / Creo (PRT)	●	●
Filmbox (FBX)	●	●
Animated Filmbox (FBX)	●	
3D Studio Max (3DS)	●	●

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Rhino (3DM)	●	●
Wavefront (OBJ)	●	●
SketchUp (SKP)	●	●
Maya (MB)	●	●
SolidEdge (ASM/PAR)	●	●
Autodesk (DWG/DXF)	●	●
Inventor (IPT/IAM)	●	●
CATIA	●	●
ICEM	●	●
U3D (Unigraphics)	●	●
Parasolids	●	●
NX	●	●
VDA	●	●
Live Update from CAD	●	●
OUTPUT		
Unlimited resolution offline rendering	●	●
Alpha Channel	●	●
Early image save	●	●
Threaded offline renderings	●	●
JPG, BMP, PNG, TIFF, HDR and PSD output	●	●
Built in image viewer tab	●	●
Render Profiles	●	●
Preview (raster) output	●	●
Render all Configurations	●	
Render all Cameras	●	

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Render Passes	●	
Turntable rendering	●	
Automatic movie (.mp4, .mkv, .flv) output	●	
Browser based VR output	●	
Browser based Panoramic output	●	
<b>SCENE PREPARATION</b>		
CAD Live-Update	●	●
Auto-Paint	●	●
Direct manipulation of parts	●	●
Surface/Part Splitter	●	●
Group and reorganize parts in the tree view	●	●
Model/Part reset and freeze	●	●
Formation tool	●	
Part re-tessellation	●	
Multiple model sets	●	
Simple vehicle wheel building	●	
<b>ANIMATION</b>		
Proprietary “3D graph editor” Ribbon	●	
Turntable Animations	●	
Sun Study Animations	●	
Keyframe animations of Models, Groups and Parts	●	
Keyframe animation of Materials	●	
Keyframe animation of Cameras	●	
Keyframe animation of Environments	●	
Keyframe animation of Lights	●	
Realtime turntable	●	

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<b>MATERIALS</b>		
Scientifically accurate preset and adjustable materials	●	●
Supported techniques such as fresnel reflections, absorption, transmittance, anisotropy (mappable), emission.	●	●
Color/texture, opacity, specular, anisotropic, bump and normal mapping	●	●
Advanced materials: Subsurface, Thin Film, Backscatter	●	●
Flexible local or cloud based asset storage	●	●
Sharable material definition files (.svap)	●	●
Drag and drop materials/textures from desktop or any folder	●	●
Unique in and out of app color picker/dropper	●	●
Save favorite colors	●	●
Texturable and paintable decals	●	●
Layered decals	●	●
Decal projection	●	●
Controllable decal depth	●	●
Multiple part decals	●	●
Displacement Mapping	●	●
<b>LIGHTING</b>		
Lighting, shadow and reflection casting from HDRI	●	●
High Dynamic Range Image (HDRI) interaction and control	●	●
HDR Light Studio Live plugin	●	●
Prop creation for additional light sources	●	●
Time of day (Sun and Sky) lighting model	●	
Photometric lights (Point, Spot and Directional)	●	
Raster object reflections (Preview Mode)	●	
Raster culling (Preview Mode)	●	

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<b>CAMERA OPTICS</b>		
F-Stop, Focal length, Field of view and Perspective settings	●	●
Exchangeable camera files (.svcm)	●	●
Interactive depth of field with focal point selection	●	●
Multiple cameras with individual aspect ratio and settings	●	●
Orthographic camera	●	●
Walk-around camera	●	●
Rule of thirds overlay	●	●
Preset photographic camera filters	●	●
Real-time customizable photographic camera filters	●	
Follow and aim cameras and objects	●	
Real world camera positioning	●	
Motion blur	●	
Region rendering	●	
FBX camera export	●	
<b>PRODUCTIVITY</b>		
Highly optimized parallel architecture	●	●
Hybrid Based CPU and GPU rendering	●	●
Near Linear performance scaling with added CPU's and GPU's	●	●
3D Connexion device support	●	●
SOLIDWORKS Visualize cloud community connection	●	●
Queue rendering manager	●	
Configurations	●	
Multiple viewports (Dual, Quad and Orthographic)	●	