QUADRO AND CATIA
THE PROVEN COMBINATION FOR PERFECT DESIGNS

NVIDIA® QUADRO® IS THE ONLY SOLUTION CERTIFIED BY DASSAULT SYSTEMES FOR EXCEPTIONAL PERFORMANCE AND NEW CATIA LIVE RENDERING.

The latest NVIDIA Quadro professional graphics solutions, based on the Fermi architecture, and CATIA are trusted by engineers and designers in industries ranging from automotive and aerospace to consumer packaged goods. The collaboration of NVIDIA, Dassault Systemes and the leading workstation manufacturers assures you of optimized performance and the most advanced features, including the new CATIA Live Rendering with GPU-accelerated ray tracing.

INCREASE CATIA PERFORMANCE
Featuring new scalable geometry engines and up to 6GB of graphics memory, NVIDIA Quadro shatters previous limitations. With up to 85% performance gains over previous generations,* the new Quadro solutions allow you to use advanced textures and materials on large assemblies without slowing down the design process. Stylists can now use realistic materials like car paint, carbon fiber and leather stitching to render life-like models. Electrical and hydraulics engineering teams can navigate complete airplane or car assemblies to make correct technical decisions faster. Go ahead and rotate, pan, zoom and modify without worry. Quadro gives you the power you need.

THE PROVEN SOLUTION FOR CATIA
NVIDIA professional graphics solutions are certified and recommended by Dassault Systemes and come with a three year warranty. The close collaboration during product development guarantees stability and reliability of the platform, so everything will perform just the way you expect from day one. It's no wonder 9 out of 10 CATIA users choose Quadro in their workstations.

CATIA LIVE RENDERING FOR PHOTOREALISTIC DESIGNS
For the first time ever in CATIA, Live Rendering provides designers and engineers with intuitive means for creating images that rival photographs, in a fraction of the time previously required. You can now use materials and lights that correspond to and react like those in the physical world, quickly bringing your models to life. Assemblies of every size can now be interactively rendered directly within CATIA due to the parallel processing architecture of NVIDIA Quadro solutions.

By tightly integrating mental images® iray® rendering technology into the application, CATIA blurs the lines between traditional modeling and ray traced rendering. With the remarkably simple user interface you can easily modify designs, materials, reflections and backgrounds – allowing you to focus on the creative process.
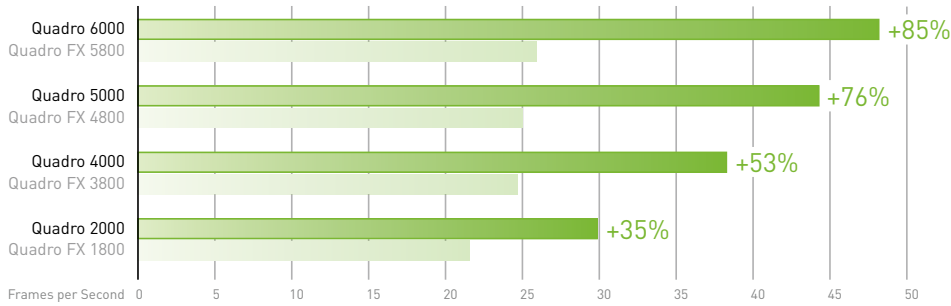

New CATIA Live Rendering brings models to life.

Design complex models, faster.

CATIA BENCHMARK RESULTS

SPEC ViewPerf 11 – Cat 03*

Quadro 6000 / Quadro FX 5800	+85%
Quadro 5000 / Quadro FX 4800	+76%
Quadro 4000 / Quadro FX 3800	+53%
Quadro 2000 / Quadro FX 1800	+35%

Frames per Second 0 5 10 15 20 25 30 35 40 45 50

RECOMMENDED NVIDIA QUADRO SOLUTIONS

	Quadro 2000	Quadro 4000	Quadro 5000	Quadro 6000
CATIA Usage	Occasional Modeling Simple assembly, single part design	Intensive Modeling Complex system assembly	Expert Modeling Design and Styling	Expert Modeling Visualization and Styling
Benefit	All around performance for spinning, panning and zooming	Deal with large amount of data	Use complex material and surfaces for better design fidelity	Accelerate photorealistic image production
CUDA Processing Cores	192	256	352	448
Frame Buffer Memory	1 GB GDDR5	2 GB GDDR5	2.5 GB GDDR5	6 GB[1] GDDR5
Memory Interface	128-bit	256-bit	320-bit	384-bit
Memory Bandwidth	41.6 GB/s	89.6 GB/s	120 GB/s	144 GB/s
Max Power Consumption	62 W	142 W	152 W	225 W
Graphics Bus	PCI Express 2.0 x16	PCI Express 2.0 x16	PCI Express 2.0 x16	PCI Express 2.0 x16
Display Connectors[2]	2 DisplayPort 1 Dual Link DVI-I	2 DisplayPort 1 Dual Link DVI-I 1 Stereo 3D (optional)	2 DisplayPort 1 Dual Link DVI-I 1 Stereo 3D	2 DisplayPort 1 Dual Link DVI-I 1 Stereo 3D

Quadro professional graphics solutions are engineered, built, and tested by NVIDIA to provide the highest standards of quality for maximum system uptime. With advanced support for a multiple display environment, you can view more content to boost productivity. In addition, with robust features, including a unified driver architecture and nView display management software, Quadro solutions offer IT departments an easy to deploy and manage solution.

QUADRO^{fermi} | Exponentially better for CATIA

To learn more, visit **www.nvidia.com/catia**

[1]6GB is supported on Win7 and Linux64 (4GB memory limit on Windows XP64) via Rel 256 driver.
[2]Two out of any three connectors can be active at a time