NVIDIA QUADRO RTX
AUTODESK VRED
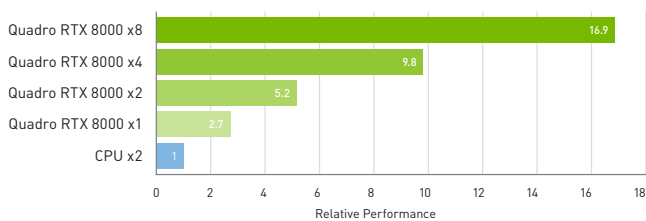
Image courtesy of Peter Spriggs

Quadro RTX Accelerates Autodesk VRED

Autodesk VRED taps into the power of **NVIDIA® Quadro RTX™** GPUs to deliver stunning real-time ray tracing, 3D visualization, and virtual prototyping for automotive designers. With nearly 17X[1] faster performance over a CPU-based alternative, VRED with RTX support provides incredible improvements for your rendering workloads, including:

> Uncompromised image quality and frame rate when viewing VRED scenes on 4K powerwalls with RTX Server

> Support for high-performance virtual reality workflows with variable rate shading

> Interactive OpenGL for viewport visualization

> Graphics virtualization with NVIDIA Quadro® Virtual Data Center Workstation (Quadro vDWS) software

> Decreased server footprint, noise, power consumption, and cost with RTX Server's ability to replace up to 17 128-core CPU nodes

Rendering and Design Solutions for Autodesk VRED

NVIDIA Quadro provides a wide range of RTX-enabled solutions for desktop, mobile, server-based rendering, and virtual workstations with **Quadro vDWS** software[2]. With up to 48 gigabytes (GB) of GPU memory available, Quadro provides the power you need for your largest professional graphics and rendering workloads.

"Real-time ray tracing has a huge impact on design visualization, which is why Autodesk is making our industry-leading VRED 3D visualization software even more powerful by embracing NVIDIA Quadro RTX GPUs in the latest release."

– **Thomas Heermann, Associate Vice President, Automotive + Conceptual Design at Autodesk**

NVIDIA professional graphics solutions are certified and recommended by Autodesk. Close collaboration between Autodesk and NVIDIA during product development guarantees the stability and reliability you expect from day one.

Benchmark: AUTODESK VRED GPUs

Rendering performance increase on Quadro RTX GPUs

GPU	Relative Performance
Quadro RTX 8000 x8	16.9
Quadro RTX 8000 x4	9.8
Quadro RTX 8000 x2	5.2
Quadro RTX 8000 x1	2.7
CPU x2	1

CPU Tests run on two Xeon Gold 6254 @3.1GHz CPUs, 256 GB DDR4 RAM. Win10x64. Driver version 442.35. Performance results may vary depending on the scene. | Quadro RTX 8000 active cooled

Learn how to optimize RTX for VRED. See our **VRED Tuning Guide**.

Learn more about Autodesk VRED at **www.autodesk.com/products/vred/overview**

AUTODESK® VRED™

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