



DESIGN WITH ACCELERATED CREATIVITY GPU RENDERING WITH V-RAY

Image courtesy of Double Aye

V-Ray GPU delivers full featured interactivity of your final frame.

Chaos Group's V-Ray provides full production rendering capabilities with its Academy Award-winning ray tracing technology. Independent artists and studios across many industries, from product and architecture design to film and television visual effects, rely on V-Ray GPU to create world-class animations and 3D imagery.

V-Ray GPU is developed with NVIDIA® CUDA®, delivering physically based final frame qualities and highly interactive rendering to support the real-time creative process. It is scalable with multiple GPUs to increase speed—within the workstation, across the network, and to GPU clusters or cloud services—so it can go as fast as your project requires.

V-Ray GPU Spotlight: Dabarti Studio



Image courtesy of Dabarti Studio

Dabarti Studio was cautious about moving to GPU rendering at first but quickly embraced the new workflow when they realized they could see results interactively without waiting for CPU rendering. This real-time feedback is vital to the creative process because it allows immediate feedback on how materials, lights, and other elements affect a scene.

“We saw immediate jumps in speed, interactivity, and realism. For example, our workflows are 4X-6X faster... and that’s just the beginning.”

—Tomasz Wyszolmirski, Founder, Dabarti Studio

KEY V-RAY GPU FEATURES

- > **Smarter Memory Usage for Quality and Speed**
With recent advances to V-Ray GPU, Chaos Group has reduced overall memory usage by up to 70%, and up to 700% through on-demand mip-mapping, an intelligent way to automatically resize textures.
- > **NVIDIA NVLink**
In addition to memory-efficient software developments, V-Ray GPU is now the first commercial renderer to support NVIDIA's powerful, high-bandwidth interconnect NVIDIA NVLink™, which allows video memory to be shared between graphics cards. NVLink is now available in the latest NVIDIA Quadro® GV100 and NVIDIA Tesla® V100 cards.
- > **Render with All Your Computing Power**
Now with V-Ray Hybrid, artists will have greater flexibility to render a scene using GPUs, CPUs, or a combination of both and the rendered images will be identical, regardless of hardware. This allows artists to use all of the computing power, from high-performance GPU workstations to CPU render nodes.

The GPU Rendering Solution

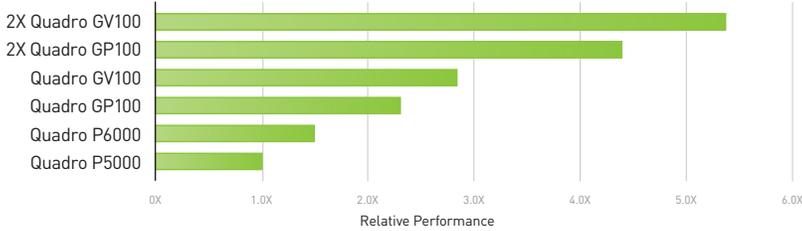
NVIDIA® Quadro® GV100 is the most powerful professional GPU rendering solution available, delivering the fastest rendering speeds possible. With 32GB of memory, it allows the largest images to be rendered with a single GPU. For even larger scenes, connect two GV100s with NVIDIA NVLink™* to access up to 64GB of GPU memory.



GV100 SPECIFICATIONS

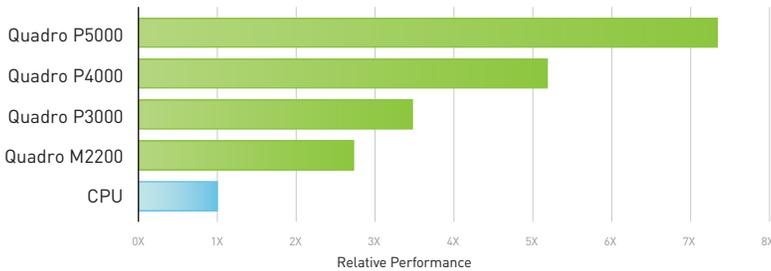
GPU ARCHITECTURE	NVIDIA Volta™
NVIDIA CUDA CORES	5,120
NVIDIA TENSOR CORES	640
MEMORY CAPACITY	32GB HBM2
SINGLE-PRECISION PERFORMANCE	14.8 TFLOPS
DOUBLE-PRECISION PERFORMANCE	7.4 TFLOPS
TENSOR PERFORMANCE	118.5 TFLOPS
NVIDIA NVLink™	2 Quadro GV100 Supported
DISPLAY CONNECTORS	4x DP 1.4
DISPLAY SUPPORT	4x 4096x2160 @ 120Hz 4x 5120x2880 @ 60Hz
VR READY	YES

NVIDIA QUADRO GPUS FOR DESKTOP WORKSTATIONS CHAOS GROUP V-RAY GPU



Tests run on a workstation with Intel Xeon E5-2697 v3, 14 cores 2.6GHz, 32GB RAM, running Win 10 64-bit, Fall Creators Update. Performance testing completed with V-Ray Benchmark 1.0.7 and driver version 390.77, HD render resolution.

NVIDIA QUADRO GPUS FOR MOBILE WORKSTATIONS CHAOS V-RAY GPU



Tests run on a workstation with Intel Core i7 4790S 3.2GHz 8GB RAM, running Windows 10 64-bit Anniversary Update and driver 384.76. Performance testing completed with Chaos V-Ray 3.61.01 using internal NVIDIA tests, image resolution 960x540.



Image courtesy of Dabarti Studio



Image courtesy of Double Eye

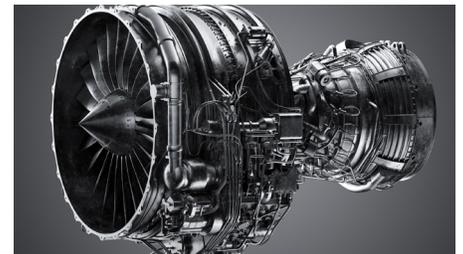


Image courtesy of Dabarti Studio



by
CHAOSGROUP

NVIDIA professional graphics solutions are certified and recommended by Chaos Group. For the latest updates on software certifications and support, please visit the Chaos Group V-Ray support website. The close collaboration during product development guarantees stability and reliability of the platform just the way you expect from day one.

To learn more, visit www.nvidia.com/gpurenrendering

For more information on Chaos Group V-Ray GPU, visit www.chaosgroup.com

*Application support for NVLink is required to access 64GB of memory

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