ACCELERATED DESIGN SIMULATION
GPU RENDERING WITH MAXWELL

Image courtesy of Lessmore Design – Roberto Morelli

Maxwell sets the bar for physically accurate rendering.

Next Limit Maxwell is a 3D rendering software for architects and designers. Maxwell is legendary for its quality and realism and delivers great results by employing a simple set-up, letting you focus on lighting. Whether you're a freelancer, project manager, visualizer, or a designer, Maxwell lets you spend your valuable time and energy on creating your vision—without the need to understand computer graphics terminology and tweaking parameters.

From Maxwell 4, you can now significantly accelerate your rendering with a GPU, optimize the size of your images, and even enhance the amount of geometry and textures you can load. A new GPU compatible denoiser dramatically reduces the time it takes to arrive at a final image.

Maxwell Spotlight

Image courtesy of Pariah Studios

"As the Creative Director of Pariah Studios, I have a very hands-on approach when I am modeling, texturing, animating and, most importantly, lighting scenes using Maxwell. As is often the case, the scene itself might be simple, but the interaction between lighting and materials is what makes or breaks the success of a shot."
—Rob Redman, Creative Director, Pariah Studios Ltd

KEY MAXWELL FEATURES

- **Based on Reality**
  Predictable and reliable first-time results simulate real-world lighting and materials.
- **GPU / CPU Denoiser**
  Maxwell now easily integrates a powerful denoiser while preserving texture and geometry details, effectively saving a lot of time. You can obtain your images around 2-6X faster.
- **Easy Workflow**
  Maxwell's learning curve is a breeze. Minimal set-up time and a simple, realistic approach that gives you more time to get creative.
- **Identical Results**
  Maxwell CPU and GPU produces pixel for pixel accuracy.
- **Maxwell Mulitlight™**
  No more re-rendering. Save infinite lighting variations and images all from one single render.

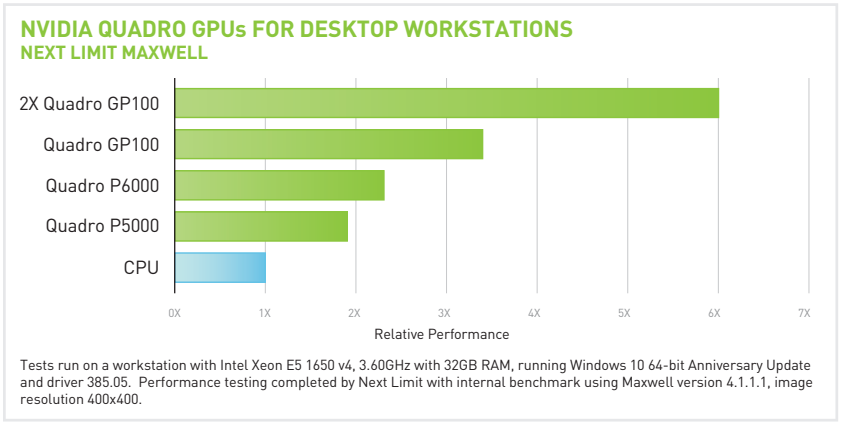
"Speed has become the biggest challenge for many studios, and I'm happy that with NVIDIA® Quadro® we can accelerate Maxwell."

—Rob Redman, Creative Director, Pariah Studios Ltd

Maxwell

The GPU Rendering Solution

NVIDIA® Quadro® GP100 is the most powerful professional GPU rendering solution available, delivering the fastest rendering speeds possible. The Quadro P6000, with 24GB of memory, allows the largest images to be rendered with a single GPU. For even larger scenes, connect two GP100s with NVIDIA NVLink™* to access up to 32GB of GPU memory.



Tests run on a workstation with Intel Xeon E5 1650 v4, 3.60GHz with 32GB RAM, running Windows 10 64-bit Anniversary Update and driver 385.05. Performance testing completed by Next Limit with internal benchmark using Maxwell version 4.1.1.1, image resolution 400x400.

GP100 SPECIFICATIONS

GPU ARCHITECTURE	**NVIDIA Pascal™**
CUDA FP 32 CORES	**3584**
MEMORY CAPACITY	**16 GB HBM2**
FP 16 PERFORMANCE	**~20 TFLOPS**
FP 32 PERFORMANCE	**~10 TFLOPS**
FP 64 PERFORMANCE	**~5 TFLOPS**
MULTI-GPU	**NVLink™ (2-way)**
DISPLAY CONNECTORS	**4x DP 1.4 + 1x DVI**
DISPLAY SUPPORT	**4x 4096X2160@120HZ 4x 5120x2880@60HZ**
VR READY	**YES**

Image courtesy of MHP Media

Image courtesy of Maciek Ptaszynski

Image courtesy of Matteo Tibaldo

Maxwell

NVIDIA professional graphics solutions are certified and recommended by Next Limit. For the latest updates on software certifications and support, please visit the Next Limit Maxwell 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/gpurendering**

For more information on Next Limit, visit **www.nextlimit.com/maxwell**

*Application support for NVLink is required to access 32GB of memory

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