

Choose the Right Rendering Solution

By John Vondrak

Rendering, as most of you know, is the process of generating an image from a model or models in a scene file. And though the technical details of rendering methods vary, the challenges faced by creative professionals as they produce a 2D image from a 3D representation, are universal. That's why BOXX Technologies, equipped with a line of record-setting, 3DBOXX workstations, dedicated rendering systems, professional software applications, and expertise, remains committed to providing complete CPU-based or GPU-based rendering solutions for VFX, animation, post production, engineering, product design, architectural visualization and more.

Sound familiar?

Chances are you're a digital creative content professional who understands that "time is money," and that axiom has motivated your search for a rendering solution that will unclog those bottlenecks in your current production workflow. But if you've ever searched for answers from most top tier computer manufacturers, you already know the score.



3DBOXX Workstation and Five Stacked renderPRO's



renderBOXX Series

These giants may employ thousands at busy call centers throughout the world, but if you ask them a question about rendering, silence follows. BOXX, on the other hand, provides solutions to fit any situation: desk side systems, rack mounted modules, turn-key render farms, and a complete line of rendering applications and engines like Autodesk® mental ray® and iray®, V-RAY®, QUBE!™, EnFuzion, and more. But BOXX rendering expertise does not end there. They also partner with software standard bearers like Autodesk Consulting and Pipeline FX for installation and training, ensuring that their customers will benefit from industry leading knowledge—as well as innovative solutions that will save time, money, and increase productivity and profit.

As a solution provider, BOXX builds professional grade, custom built, rendering systems, featuring enterprise-class components like Intel® Xeon® processors. For content creation, visualization, and simulation, the Intel® Xeon® processor 5600 series enables outstanding performance for digital content creation and advanced workflow modeling. It also conserves energy. Enabled by new Intel® Turbo Boost Technology, the Intel Xeon processor 5600 series automatically moves into the lowest available power state without experiencing any compromise to performance.

What's New?

The latest system from BOXX is the newly redesigned renderBOXX—the longtime flagship of their rendering line-up. Former incarnations of the renderBOXX module consisted of two rendering nodes, but by listening closely to customer demands and applying the latest technology, renderBOXX is now available as a streamlined single-node module which allows for greater flexibility in terms of installation. Two renderBOXX modules (12 cores in each), fit neatly into a 1U rack mounting space, while 10 units occupy a 4U space.

Featuring dual six core Intel Xeon processors (3.33GHz), support for 192GB of RAM, and networked architecture, the new renderBOXX dedicated rendering system is specifically designed to deliver outstanding performance for intensive 3D graphics and animation workflows.

“Workstation and rendering solutions based on the Intel Xeon 5600 are revolutionizing the pace of innovation across a broad range of industries,” said Anthony Neal-Graves, general manager of Intel’s Workstation Group Intel technology. “With 6 cores and 12 threads on each processor and bandwidth to move large files, the new renderBOXX provides users with processing power and computing infrastructure to create action-packed 3D, high-powered visual effects, and photo-realistic designs faster than ever.”

Get Personal

renderPRO, the industry’s first personal, dedicated rendering module is so compact that it easily fits on top of a workstation, yet so powerful that it features Intel Xeon processors to quickly render the most detailed images and animation. Available in three models with model numbers indicating the number of processing cores available in



Ten renderBOXX Modules fit a 4U space

each, renderPRO saves time, accelerates workflow, and increases productivity because it allows users to free their workstation from rendering duties while providing true dedicated rendering performance.

renderPRO was the ideal solution for CG artist and filmmaker Vito LaManna on his CGI short Water Soul. In fact, LaManna was amazed by its impact on the production’s workflow. For example, a previously rendered sequence which had consumed three and a half hours took only thirty minutes with renderPRO.

“Wow, my first impression was of the rendering buckets—so many of them. Like little ants they bite their way through the preview window and create the image within a timeframe. I have personally never experienced that before,” says LaManna.



renderPRO



Two renderBOXX Modules fit in a 1U space

A Render Farm on Wheels

A complete, turn-key rendering solution, ROW: Render-Farm on Wheels is founded on a unique combination of hardware, software and support. The base model ROW hardware configuration features ten Intel Xeon-based renderBOXX modules neatly fitted into a 24-unit mobile rack complete with master node, storage, network switch, display and keyboard. BOXX also equips ROW with professional applications, including Autodesk creation software (Autodesk® Maya® and/or Autodesk® 3ds Max®), real-time visualization capability (Autodesk Showcase or Autodesk Opticore Studio software), queuing software with PipelineFX QUBE!™, and rendering through mental ray® or V-Ray®. Support arrives from a BOXX partnership with Autodesk Consulting, providing expert, on-site hardware and software support, especially valuable for those with limited experience using dedicated rendering solutions.

“We have a global team with expertise in a broad range of industries,” said Doron Helfman, director of Worldwide Manufacturing Consulting at Autodesk. “We are keenly aware of the rendering issues businesses are facing. ROW helps to resolve many of those issues, requiring no IT department and arriving with unparalleled software and hardware support from Autodesk Consulting and BOXX.”

Whether you choose renderBOXX, renderPRO, ROW, (or rely on desktop rendering with 3DBOXX), expert BOXX consultants can help you select the ideal Intel Xeon-based solution for your creative business.

BOXX rendering solutions are made in the U.S.A., feature a three year warranty, and are backed by legendary BOXX Technical Support.



Render Farm on Wheels (ROW)

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