



NVIDIA® IRAY® VCA

POWERFUL. FLEXIBLE. SCALABLE.

Image courtesy of SimBILD

The NVIDIA Iray® Visual Computing Appliance (VCA) is a powerful network appliance for accelerating Iray rendering. Work with a single VCA, or combine multiple Iray VCAs to interactively design products with noise-free clarity and the realism of physically based global illumination. Make faster, more confident design decisions without interrupting the creative process to render test movies or build physical prototypes, and examine virtual models if they were real objects.

YOUR WHOLE WORKFLOW, A WHOLE LOT FASTER.

Use industry-standard applications with a faster workflow.

The NVIDIA Iray VCA integrates hardware and software to supercharge your existing Iray rendering workflow. Use your favorite Iray-enabled application*, connect to your Iray VCA, and enjoy the fastest photorealistic rendering experience possible.

Iray is a photorealistic rendering solution licensed to leading software manufacturers like Dassault Systèmes and Autodesk and integrated within tools like Catia and 3ds Max.

(Carlos, please add as a footer at the bottom of the page): *NVIDIA is currently working with all Iray licensees to support the Iray VCA. Initial demonstrations will be with Bunkspeed Drive from RTT, Iray for Maya from 0x1 Software, and Iray+ for 3ds Max from Lightwork Design.

GET REAL, FAST

Speed decisions with intuitive photorealism.

The highly reliable Iray VCA features eight of NVIDIA's most powerful GPUs, each with 12 GB of graphics memory, that combine to deliver 23,040 NVIDIA CUDA® cores for unprecedented rendering performance. With both 10GigE and InfiniBand connections, a visual computing cluster of multiple Iray VCAs can be built over time and easily allocated to meet the changing demands of daily workloads.

Iray's physically based rendering works like the world around you – with physical lights and materials that behave as expected and deliver results that rival your best camera. With minimal preparation requirements, your original data is swiftly ready for photorealistic inspection. Iray VCAs turbocharge your results, so you can make critical adjustments or design decisions without producing costly physical prototypes. This saves precious time in bringing products to market, making it the ideal solution for automakers, consumer-product manufacturers, and other design-intensive disciplines.



SYSTEM SPECIFICATIONS

GPUs	8 NVIDIA Top-End GPUs
GPU Memory	12 GB per GPU
CUDA Cores	23,040
CPU Cores	20
System Memory	256 GB
Storage	2TB SSD
Network	2 x 1GigE, 2 x 10GigE (SFP+), 1 x InfiniBand
Installed Software	Linux Cent OS, Iray, Iray VCA Cluster Manager

NOISELESS GLOBAL ILLUMINATION

Replace physical prototypes with interactive realism.

Traditional distributed rendering methods are only efficient for static frames, and struggle as scene properties change. These solutions reward you with fast results when you stop moving, but your interactive experience is grainy or noisy and can keep you from fully understanding your design's behavior.

In contrast, Iray VCAs are so efficient you catch every nuance of light and reflection as you manipulate your scene. While an individual Iray VCA delivers far more rendering power than is practical

to have at your desk, combining Iray VCAs will improve your interactive quality until the experience is like walking around a physical prototype. This is made possible with an exclusive Iray rendering mode of the Iray VCA that keeps the entire visual computing cluster contributing equally as you modify your scene.

In all cases, Iray VCAs can be conveniently located in an IT center and serve their rendering power on demand to individuals or combine for that critical presentation.



For more information on the NVIDIA Iray interactive rendering appliance, visit www.nvidia.com/irayvca