



REALITYENGINE AMPERE

Ultimate Workstation for
Virtual Sets &
Broadcast Graphics

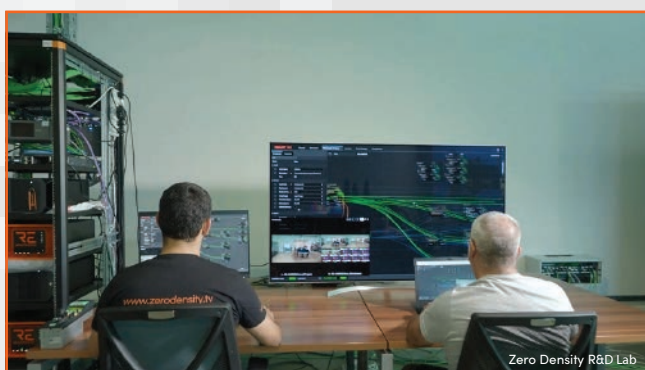
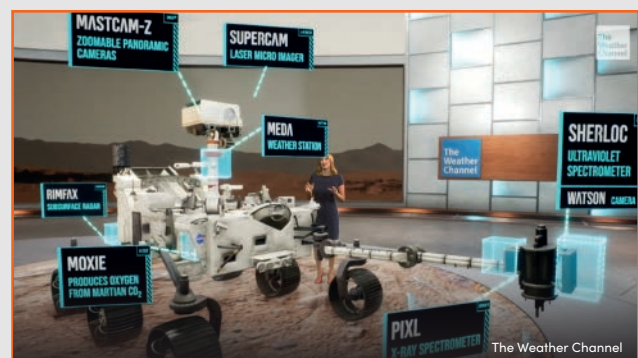


Tailored for Virtual Studio and Broadcast Graphics

It is the ultimate **real-time graphics hardware** which utilizes the latest generation AMD Ryzen Threadripper Pro CPU and Nvidia RTX A6000 GPU. Designed and built inside ZD R&D Lab, RealityEngine AMPERE answers the specific needs of **virtual studio and broadcast graphics applications and workflows.**

Unleash Your Imagination

RealityEngine AMPERE provides the necessary processing power to enable **real-time visual effects** pipelines to create **highest quality images** with high density video I/O, keying, compositing & rendering in **one single machine.** RealityEngine AMPERE helps you create the most **immersive content** possible and lets you create better stories.



Quality-Controlled for Real-time Production

Each and every RealityEngine AMPERE runs with full performance. Zero Density's most talented **Testing and Quality-Control** teams run specially-tailored **test** procedures that simulate every single point of **real-time production environment.**

Once you receive your RealityEngine AMPERE, you can just plug and play without any additional effort.

Fastest available Rendering, Compositing & I/O Performance

Using the latest generation Nvidia RTX A6000 GPU over 16x PCIe Gen4 bus, RealityEngine AMPERE delivers **maximum rendering, compositing and video I/O performance.**

Deep Learning Super Sampling (DLSS)

Utilizing dedicated AI processing Tensor Cores, deep learning neural network can provide **more than 2x rendering performance.** This requires RealityEngine v4.26 or newer.

Premier Support

We know that how important is to have a contact with a person that understands you. Zero Density's **elite dedicated support team** will be by you whenever you need.

Real-time Ray Tracing Performance

Using second generation RT cores with 2x throughput, RealityEngine AMPERE provides **greater visual accuracy for your production.**

Multi Camera Rendering and Compositing with a single Engine

Fastest available rendering GPU and a PCIe Gen4 bus can deliver multi camera renders, composites and SDI video streams from a single RealityEngine AMPERE.

Reliable Performance

RealityEngine AMPERE is built to deliver **the maximum stability under the toughest real-time production environment conditions.**

Hardware Specifications

RealityEngine AMPERE System Configuration

Connectivity

SDI Video I/O	AJA Corvid44 (4x 3G SDI), Corvid88 (8x 3G SDI), Corvid44-12G (4x 12G SDI)
Display Ports	4x DisplayPort 1.4
High Speed Network	1x 10GbE Ethernet RJ-45 port
Tracking Network	4x 1Gb Ethernet RJ-45 ports

Hardware

GPU	Nvidia RTX A6000 running on PCI Express Gen4 x16 slot
CPU	AMD Ryzen Threadripper PRO 3945WX 4.0GHz
Memory	64GB Memory, 8x 8GB DDR4 3200MHz RDIMM ECC
Storage	1TB M.2 SSD PCIe NVMe Gen4x4 for Operating System and project cache
Operating System	Windows 10 Pro 64
Power Supply Unit	1000W (92% efficient), Autosensing 100-240V~/12-6A, 50Hz/60Hz

Mechanical

Dimensions (WxDxH)	446 x 460 x 165 mm (17.6 x 18.1 x 6.5 inches)
Weight	14kg

Operating Environment

Temperature	10°C (50°F) to 35°C (95°F)
Altitude	0 m (0 ft) to 3048 m (10,000 ft)
Humidity	20% to 80%

**Zero Density reserves the right to make changes without prior notice.*