

UNMATCHED POWER. UNMATCHED CREATIVE FREEDOM.

NVIDIA QUADRO P5000—PERFORMANCE AND FEATURES MASTER CHALLENGING PROFESSIONAL WORKFLOWS.

The NVIDIA Quadro P5000 combines the latest GPU, memory and display technologies, resulting in outstanding performance and breakthrough capabilities. Professionals across a range of industries can now create their most complex designs, solve the most challenging visualization problems and experience their creations within the most detailed, lifelike and immersive VR environments. Additionally, you can create massive digital signage solutions by connecting multiple P5000s via Quadro Sync II.

Designs become more complex over time. Visual effects grow in size, complexity, and scope. Scientific visualization and compute challenges continue to push the boundaries of workstation capabilities. VR is changing all facets of entertainment, design, engineering, architecture and medicine. As professional workflows grow in size and complexity the demand for visual compute power grows with it.

The new P5000's carefully tuned balance of graphics and single precision (FP32) compute performance, fast and expansive GDDR5X GPU memory, alongside sophisticated VR hardware and software optimizations coupled with advanced development frameworks, allow the creation of extremely large and complex designs, rapid rendering of photorealistic imagery, and startlingly immersive VR experiences.

SPECIFICATIONS AND SOLUTIONS

Optimised for Exacta Proline Workstations NVIDIA Quadro P5000

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| CUDA Cores | 2560 |
| Peak Single Precision FP32 Performance | 8.9 TFLOPS |
| Multi-GPU Scalability | NVIDIA SLI HB |
| GPU Memory | 16 GB GDDR5 |
| Memory Interface | 256-bit |
| Memory Bandwidth | 288 GB/s |
| System Interface | PCI Express 3.0 x16 |
| Maximum Power Consumption | 180 W |
| Quadro Power Guidelines | |
| Energy Star Enabling | Yes |
| Thermal Solution | Ultra-quiet active fansink |
| Form Factor | 4.40" H x 10.50" L, Single Slot |
| Display Connectors | DP 1.4 (4) + DVI-D DL + Stereo |
| DisplayPort with Audio | Yes |
| DVI-D Single-Link Connector | Via included adapter |
| HDMI Support | Via optional adapters |
| VGA Support | Via optional adapters |
| Number of Displays Supported | 4 |
| Maximum DP 1.4 Resolution | HDR 7680 x 4320 at 30Hz (30-bit color) |
| 5K Display Support | HDR 5120 x 2880 at 60Hz (30-bit color) |
| 4K Display Support | HDR 4096 x 2160 at 60Hz or 3840 x 2160 at 60Hz |
| Maximum DVI-D DL Resolution | 2560 x 1600 at 60Hz via 3rd party adapter |
| Maximum DVI-D SL Resolution | 1920 x 1200 at 60Hz via included adapter |
| Quadro and NVS Display Resolution Support | |
| Support HDCP Support | Yes |
| Quadro Sync II Compatible | Yes (Frame Lock and Genlock) |
| NVIDIA GPU Direct Compatible | Yes |
| Graphics APIs | Shader Model 5.1, OpenGL 4.5, DirectX 12.0, Vulkan |
| Compute APIs | 1.0 CUDA, DirectCompute, OpenCL |
| NVIEW | Yes |
| NVIDIA MOSAIC | Yes (Windows 10, 8.1, 8, 7, and Linux) |
| Warranty | 3 Year Limited Warranty |

