

VR Ready Configurations

HP Z Workstations for Professional Virtual Reality



Introduction

Virtual Reality allows an innovative method of interaction with simulations and models, giving professionals a new tool for creation, development, and consumption. Segments such as digital media are emerging with titles and video content while architecture, engineering, and construction are generating graphically intense models and walk-throughs with the ability to navigate and explore. Product development teams are prototyping initial designs and simulations enhancing collaboration. These applications require workstation computing power, and HP has teamed up with NVIDIA® to provide “VR Ready” configurations.

VR Ready Configurations

VR experiences require high performance graphics cards to deliver seamless and immersive content. At a minimum, the workstation should be equipped with a NVIDIA® Quadro® P4000 graphics, however it is recommended for the majority of commercial VR applications, a NVIDIA® Quadro® P5000 or P6000 will be needed. The minimum CPU recommended is an Intel® Core™ i5-6500 or Xeon® E3-1225 v6 processor. Note that these processors are not available on all HP workstation platforms. For platform specific recommendations, please check the chart/tables below. These configurations are baseline recommendations to streamline the selection process for a VR Ready Workstation. However, a custom configuration can also be discussed with your sales representative.

While virtual reality experiences are largely gated by the graphics card, the CPU can affect the performance for certain applications. In general, VR content benefits the most from a higher frequency rather than a larger Core™-count processor, because most applications cannot properly utilize the increased Core™ count. Memory speed is another variable that can have an impact on the user’s experience in VR, especially with the standardization on the faster DDR4 architecture. But the impact is usually smaller than graphics and processor choices.

2017: HP Z Workstation VR Ready systems



	HP ZBook 17 G4	HP Z240	HP Z440	HP Z640	HP Z840
CPU	Intel® Core™ i7 7820, 2.8 GHz +, 4 core	Intel® Core™ i7/Xeon® E3 v5 series, 2.9 GHz +, 4 core	Intel® Xeon® 16xx v4 series, 3 GHz +, 4 to 8 core	Intel® Xeon® 16xx v4 series, 3 GHz +, 4 to 8 core	Dual Intel® Xeon® 26xx v4 series 3 GHz +, 4 to 8 core
System memory*	Min 16 GB DDR4	Min 16 GB DDR4	Min 16 GB DDR4	Min 16 GB DDR4	Min 32 GB DDR4
Graphics (NVIDIA®)	Quadro® P4000 Quadro® P5000	Quadro® P4000 Quadro® P5000	Quadro® P5000 Quadro® P6000	1 or 2 Quadro® P5000 Quadro® P6000	1 or 2 Quadro® P5000 1 or 2 Quadro® P6000
Storage	HP Z Turbo drive 256 GB	HP Z Turbo drive 256 GB	HP Z Turbo drive 256 GB or greater	HP Z Turbo drive 256 GB or greater	HP Z Turbo drive 256 GB or greater
OS	Windows 10 Fall Creators Update				

2018: HP Z G4 Desktop VR Ready systems



	HP Z4 G4	HP Z6 G4	HP Z8 G4
CPU	Intel® Xeon® W-series, 3.6 GHz +, 4 to 8 core	Single or Dual Intel® Xeon® SP – series, 3.2 GHz +, 4 to 8 core	Single or Dual Intel® Xeon® SP – series, 3.2 GHz +, 4 to 8 core
System memory*	Min 16 GB DDR4	Min 16 GB DDR4	Min 32 GB DDR4
Graphics (NVIDIA®)	Quadro® P5000 Quadro® P6000	1 or 2 Quadro® P5000 Quadro® P6000	1 or 2 Quadro® P5000 1 or 2 Quadro® P6000
Storage	HP Z Turbo drive 256 GB or greater	HP Z Turbo drive 256 GB or greater	HP Z Turbo drive 256 GB or greater
OS	Windows 10 Pro Fall Creators Update		

Upcoming Hardware Releases

The new generation of graphics cards from NVIDIA® are based on the Pascal architecture and are currently released in the HP Z Workstation lineup. The Pascal architecture will provide roughly a 30% increase in performance compared to the previous generation Maxwell cards. For less critical work, HP has tested a very limited, specific set of NVIDIA® GeForce® cards in select HP Workstation configurations for customers who do not need any enterprise-class benefits and are willing to deal with the unpredictability of consumer-class graphics drivers. For any type of business critical work, HP strongly recommends professional graphics solutions, such as NVIDIA® Quadro® or AMD Radeon Pro® WX cards, and the corresponding HP-qualified, enterprise-class, manageable and fully-supported professional graphics drivers.

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