



Vitreia Advanced Visualization

Technical Specifications

Product Data
No. MPDHI0017EAQ
(European Edition)

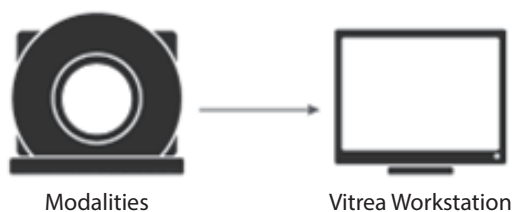
Applicable combinations for Vitrea Software and Deployment Option

Deployment Option	Vitreia Software			
	Vitreia	Vitreia MT	Vitreia MR	Vitreia LT
	V7.16	V7.16	V7.16	V7
Workstation	✓	✓	✓	✓
Precision Workstation	✓	N/A	N/A	N/A
Extend	✓	N/A	N/A	N/A
Enterprise Single Server	✓	N/A	N/A	N/A
Enterprise	✓	N/A	N/A	N/A

Vitreia Advanced Visualization Technical Specifications

Vitreia Advanced Visualization Workstation Deployment

Recommended Hardware Technical Specifications



Workstation Deployment

Single-User (1) System with 1k support

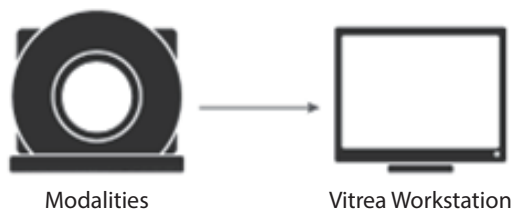
HP® Z2 G1i Workstation (SKU# CJ5C9UC)[§]

- One (1) Intel® Core™ Ultra 7 265K (3.3 GHz base frequency up to 5.4 GHz Max Turbo frequency, 20C CPU)
- 64 GB (2x 32 GB) DDR5 5600 DIMM NECC
- Two (2) SSD 2 TB 2280 PCIe M.2 RAID 1
- NVIDIA RTX™ PRO 2000 Blackwell 16 GB graphics card
- Supported Operating Systems:
 - Microsoft® Windows® 11 Professional 64-bit edition 22h2+ (Installed)
- Network: 1.0 Gbps network connection
- Heat dissipation Typical 1598+ BTU/HR
- Mini display adapter comes with system
- Support for 1024 × 1024 resolution CT images
- Optional monitors (These are not included in the SKU.)
 - HP® Series 7 Pro 724pn 24-inch widescreen monitor (native resolution: 1920 × 1200) (optional)
 - HP® Series 7 Pro 727pk 27-inch 4k widescreen monitor (native resolution: 3840 × 2160) (optional)^{*1}
 - HP® Series 7 Pro 732pk 32-inch 4k widescreen monitor (native resolution: 3840 × 2160) (optional)^{*1}

^{*1}: Not all applications support the native resolution: 3840 × 2160. Please consult the PD of each individual product.

Vitreia Advanced Visualization Workstation Deployment

Recommended Hardware Technical Specifications



Precision Workstation Deployment

Single-User (1) System with 1k and 2k support

HP® Z8 Fury G5 Workstation (SKU# 9D5U8UC)⁵

- One (1) Intel® Xeon® W5-3423 3.20 GHz Base/4.60 GHz Turbo 4800 MHz 12C CPU
- 128 GB (8x 16 GB) DDR5 4800 DIMM ECC Registered Memory
- Two (2) 4 TB SSD 2280 PCIe M.2 with VROC in RAID 1
- NVIDIA RTX™ PRO 2000 Blackwell 16 GB graphics card
- Supported Operating Systems:
 - Microsoft® Windows® 11 Professional 64-bit edition 22h2+ (Installed)
- Network: 1.0 Gbps network connection
- Heat dissipation Typical 1364 BTU/HR Max 3184 BTU/HR
- Mini display adapter comes with system
- Support for 1024 × 1024 and 2048 × 2048 resolution CT images
- Optional monitors (These are not included in the SKU.)
 - HP® Series 7 Pro 727pk 27-inch 4k widescreen monitor (native resolution: 3840 × 2160) (optional)^{*2}
 - HP® Series 7 Pro 732pk 32-inch 4k widescreen monitor (native resolution: 3840 × 2160) (optional)^{*2}

^{*2}: Not all applications support the native resolution: 3840 × 2160. Please consult the PD of each individual product.

Dell® equivalent hardware using the same CPU, RAM, and Graphics card of which is performance equivalent hardware may be used.

Disk configuration results in approximately 4 TB of available storage for the above system.

Microsoft® SQL Server® Express Edition is provided at the time of the deployment for the workstation deployment.

Vitreia Advanced Visualization Technical Specifications

Vitreia Advanced Visualization Extend Deployment

Recommended Technical Specifications



Extend Deployment

Three-User (3) System

HP® Z8 G5 Workstation (SKU # B3WP1UC)⁵

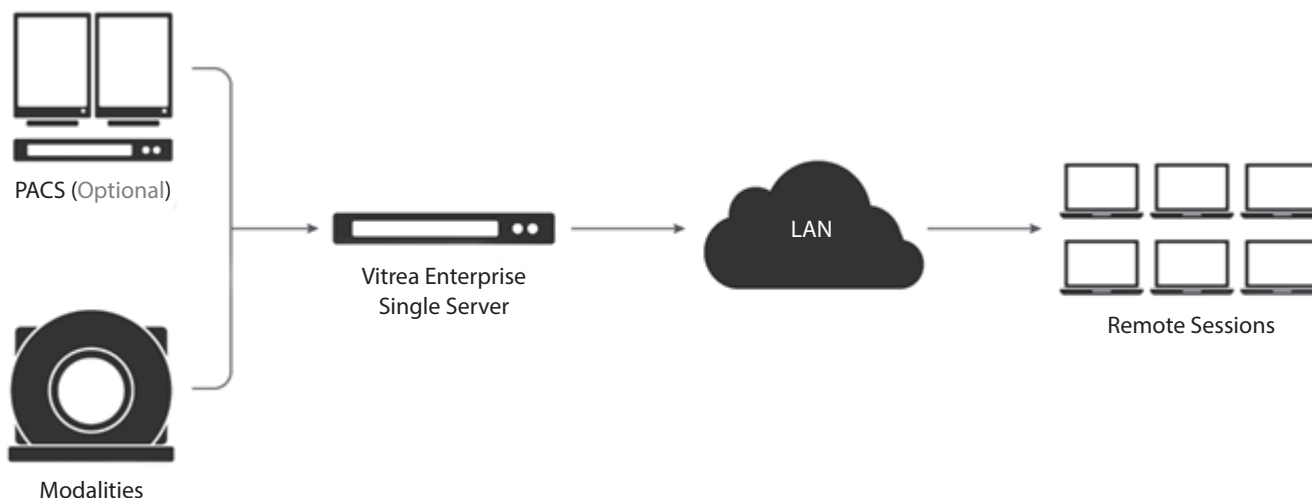
- Two (2) Intel® Xeon® Silver 4514y16+ 2.0 GHz Base/4.00 GHz Turbo 4400 MHz 16C CPU
- 192 GB (12x 16 GB) DDR5-4800 ECC RAM
- Two (2) 2 TB SSD 2280 PCIe TLC M.2 with VROC in RAID 1
- Two (2) NVIDIA RTX™ PRO 2000 Blackwell 16 GB graphics cards
- Supported Operating Systems:
 - Microsoft® Windows Server® 2025 Standard with Desktop Experience (16 Core)
 - One (1) Windows Server® 2025 Standard additional license APOS (16 Core)
 - Server OS License must be purchased separate from the hardware
- Network: 1.0 Gbps network connection
- Heat dissipation typical 1735 BTU/HR max 3336 BTU/HR
- 5U Height
- 2x Mini display adapter comes with system
- Single power supply: 110 Volt
- Support for 1024 × 1024 resolution CT images
- Optional monitors (These are not included in the SKU.)
 - HP® Series 7 Pro 724pn 24-inch widescreen monitor (native resolution: 1920 × 1200) (optional)
 - HP® Series 7 Pro 727pk 27-inch 4k widescreen monitor (native resolution: 3840 × 2160) (optional)^{*3}
 - HP® Series 7 Pro 732pk 32-inch 4k widescreen monitor (native resolution: 3840 × 2160) (optional)^{*3}

^{*3}: Not all applications support the native resolution: 3840 × 2160. Please consult the PD of each individual product.

Microsoft® SQL Server® Express Edition is provided at the time of the deployment.

Vitreia Advanced Visualization Enterprise Single Server Deployment

Recommended Technical Specifications



Enterprise Single Server (Rack Mounted)

Six-User (6) Server with 1k support

This server can be deployed in the following configurations:

- as a turnkey Six-User (6) Enterprise Single Server (ESS).
- as a Six-User (6) 1k Application Server together with the Management Server.

HPE® DL380 Gen11 Server 8SFF (SKU# S5F09A)[§]

- Two (2) Intel® Xeon® Gold 6426Y 2.5 GHz Base / 4.10 GHz Turbo 4800 MHz 16C CPU
- 256 GB (16x 16 GB) DDR5-4800 ECC RAM
- Four (4) 960 GB SATA 6 Gb mixed-use SFF SSDs in RAID 10
- Three (3) NVIDIA RTX™ 4000 Ada 20 GB graphics cards
- Operating Systems:
 - Microsoft® Windows Server® 2022 Standard with Desktop Experience (Installed)
 - 2x (16 Core) Windows Server® 2022 Standard additional license
 - Microsoft® Windows Server® 2025 Standard with Desktop Experience (Entitlement included but not installed)
- Network: Broadcom 10 GB 2 Port NIC
- 2U Height
- Dual Power Supply: 1600 Watt 220 Volt
- iLO Advanced License
- Support for 1024 × 1024 resolution CT Images

Vitreia Advanced Visualization Technical Specifications

Multi-User Application Server (Rack Mounted)

Four-User (4) Server with 1k support

This server can be deployed in the following configurations:

- as a turnkey Four-User (4) ESS.
- as a Four-User (4) 1k Application Server together with the Management Server.

HPE® ProLiant DL380 Gen11 8SFF (SKU# S5F08A)^{†,§}

- Two (2) Intel® Xeon® Gold 6426Y 2.5 GHz Base / 4.10 GHz Turbo 4800 MHz 16C CPU
- 192 GB of RAM (12x 16 GB) DDR5-4800
- Four (4) 960 GB SATA 6 Gb mixed-use SFF SSDs in RAID 1
- Smart Array MR416i-o Gen11
- DVD-RW optical drive
- Two (2) NVIDIA RTX™ 4000 Ada 20 GB or equivalent NVIDIA® vGPU
- Two (2) 1000-Watt power supplies
- Supported Operating systems:
 - Microsoft® Windows Server® 2022 Standard with Desktop Experience (Installed)
 - 2x (16 Core) Windows Server® 2022 Standard additional license
 - Microsoft® Windows Server® 2025 Standard with Desktop Experience (Entitlement included but not installed)
- Network: 1.0 Gbps network connection
- 2U Height
- Dual Power Supply: 1000 Watt 110 Volt or 220 Volt
- iLO Advanced License
- Support for 1024 × 1024 resolution CT images.

Multi-User Application Server (Tower Server)

Four-User (4) Server with 1k support

This server can be deployed in the following configurations:

- as a turnkey Four-User (4) ESS.
- as a turnkey Four-User (4) 1k Application Server together with the Management Server.

HPE® ML350 Gen11 Server SFF (SKU# S5F07A)[§]

- Two (2) Intel® Xeon® Gold 6426Y 2.5 GHz Base / 4.10 GHz Turbo 4800 MHz 16C CPU
- 192 GB (12x 16 GB) DDR5-4800 ECC RAM
- Four (4) 960 GB SATA 6 Gb mixed-use SFF SSDs in RAID 10
- Two (2) NVIDIA RTX™ 4000 Ada 20 GB graphics cards
- Supported Operating Systems:
 - Microsoft® Windows Server® 2022 Standard with Desktop Experience (Installed)
 - 2x (16 Core) Windows Server® 2022 Standard additional license
 - Microsoft® Windows Server® 2025 Standard with Desktop Experience (Entitlement included but not installed)
- Network: 1.0 Gbps network connection
- 4U with rack conversion kit
- Dual Power Supply: 1000 Watt 110 or 220 Volt
- iLO Advanced License
- Support for 1024 × 1024 resolution CT Images for.

874578-B21 HPE® ML350 Tower to Rack Conversion Kit (Sold Separately)

Microsoft® SQL Server® Express edition is provided at the time of the deployment for the Application Server.

Dell® equivalent hardware using the same CPU, RAM, and vGPU Graphics card of which is performance equivalent hardware may be used. Visit <https://dell.com/GPU> for current supported graphics cards for Dell® hardware.

See vGPU section on following pages for Vitrea requirements.

For all the above to work with 1k dataset, we will need to be on Vitrea Advanced Visualization version 7.16.0.SU04 or newer. For earlier than version 7.16.0.SU04 (HPE® DL380 Gen11 and HPE® ML350 Gen11) support up to Three-User (3) with 1k dataset.

Remote Access Client Computer Specification

Minimum Specification for Client

Minimum system to access Enterprise or Extend deployments

- 1 GHz 64-bit (x64) Processor with Two (2) or more cores are required.
- 4 GB of RAM
- 40 GB Windows® 10/ 64 GB Windows® 11 hard drive with at least 1 GB free space available for Thin Client installation.
- Internet Browser for PACS integrations (Google Chrome™, Edge®, Firefox®)
- Resolutions:
 - Minimum 1280 × 1024
 - Recommended 1920 × 1200
 - Maximum 3840 × 2160 (4k) *4
- Supported Operating Systems:
 - Microsoft® Windows® 11 Professional 64-bit edition (Recommended)
 - Macintosh® client access support
 - Microsoft® remote desktop application 8.0.32 or later for Mac OS X 10.9
 - Microsoft® Windows® App for Mac®
- Network: 1.0 Gbps network connection
- Bandwidth: Minimum 5 Mbps bandwidth and 100 ms latency.

*4: Not all applications support the native resolution: 3840 × 2160 (4k). Please consult the PD of each individual product.

Use of Virtual Desktop Infrastructure (VDI) or double remote desktop sessions to access the Vitrea software is not supported. RDS CALs (device or user) must be purchased and are the responsibility of the customer to purchase, configure and install.

Manufacturer:

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