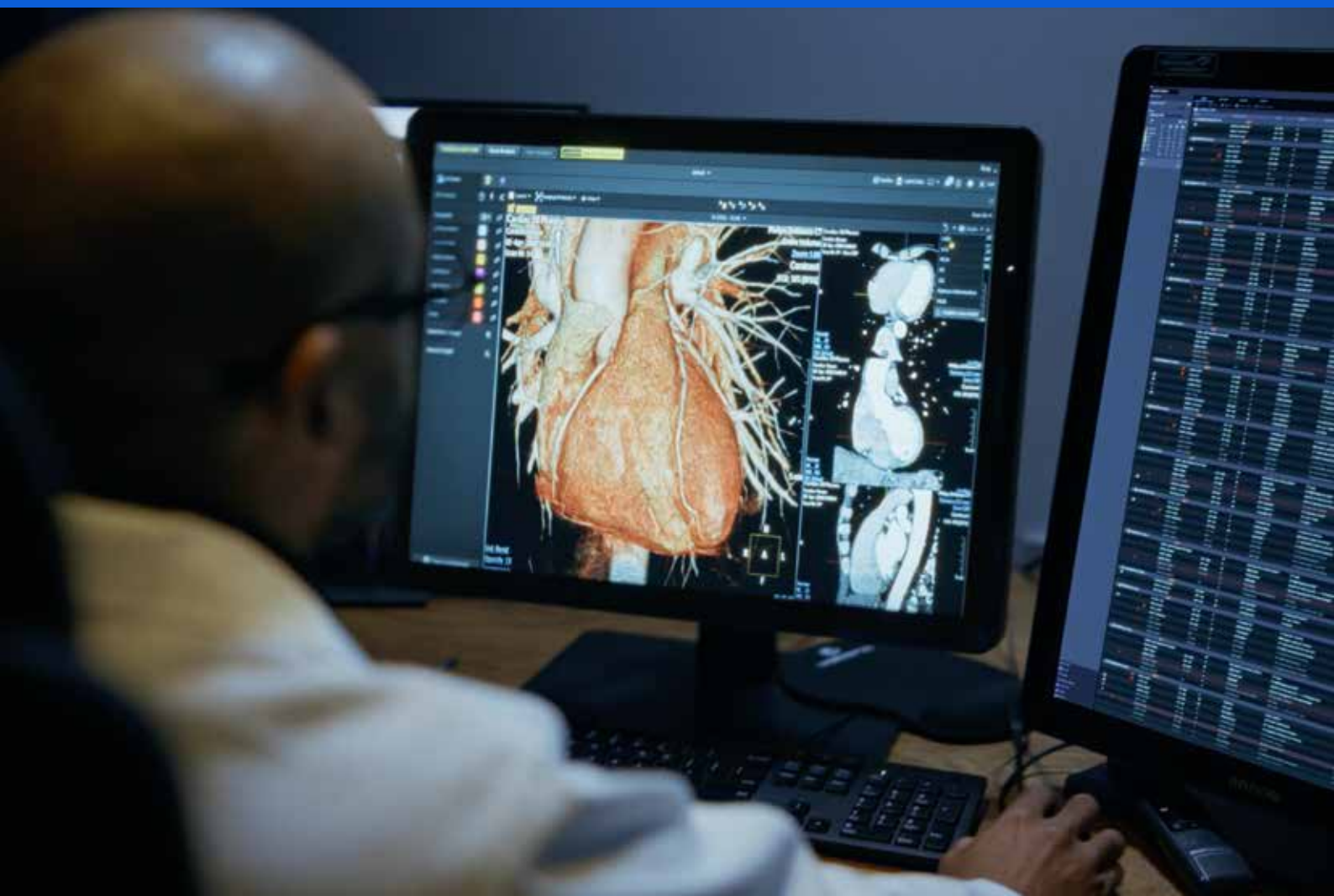
PHILIPS

Advanced Visualization Workspace 16

Technical datasheet

Integrating advanced visualization across your hospital network



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1. The benefits of a single partner

Advanced Visualization Workspace (AVW) is an advanced visualization platform that offers a rich set of advanced clinical and IT tools on a single platform. Clinical tools are designed to support clinical insights for multiple clinical domains, while the platform allows easy scaling from a single workstation connected across modalities to a server-based departmental, hospital-wide, or even an enterprise solution, to meet your growing IT needs.



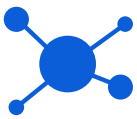
Multiple clinical domains, one standard for facilitating the diagnosis process

Advanced Visualization Workspace 16 helps you extend your clinical depth and coverage. Leverage a broad range of over 70 applications, designed for intelligent workflow automation. Spanning multiple clinical domains including oncology, cardiovascular, neurology, and pulmonary, these applications make it possible to access, analyze, and quantify patient data in one unified view.



Multiple advanced tools, one consistent workflow

Designed to optimize your workflow, Advanced Visualization Workspace 16 supports consistency across applications. Advanced Visualization Workspace 16 is predicated on intelligent workflows empowered by AI.



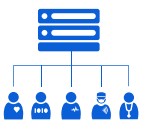
Multiple modalities, one rich view

Advanced Visualization Workspace 16 handles CT, MR, MI, US, XA, and DXR data from multiple vendors[1] within a consistent multi-modality viewing environment, to provide a rich view of the patient's condition. Advanced Visualization Workspace includes an enhanced suite of applications for the Philips CT Spectral scanners, which supports both in-depth spectral information on demand and retrospective analysis.



One solution for today and tomorrow

Advanced analysis is changing rapidly. Stay at the forefront of the clinical innovation available in Advanced Visualization Workspace with our newly updated Philips RightFit Service Agreements[2]. The service solution makes it possible to take advantage of a steady stream of clinical and IT innovations including clinical support on demand and consulting services.



Solution scalability and integration

Advanced Visualization Workspace concurrent users (CCU) licensing makes it possible to scale-up to the exact number of users required. The Advanced Visualization Workspace server/client architecture provides a simple process for deployment. If customer has purchased upgrades through the relevant service agreement, upgrades will be distributed centrally (based on user preferences or settings, and connectivity to new modalities).

1 Please contact your local Philips representative for details about multi-vendor coverage
2 Consult your local Philips representative for information on RightFit Service Agreements

2 System and hardware specifications

The hardware specifications listed under the system specifications are for reference only. The hardware that will be delivered will either meet or exceed the listed specifications. The hardware specifications provided by Philips in this document apply to both new and upgrade shipments.

2.1 Advanced Visualization Workspace workstation

Hardware model	HP Z4[1]
CPU	Intel® Xeon W3-2435 4.50GHz 8 cores
RAM	32GB
Hard Drive (OS + AVW Application)	256GB SSD
Hard Drive (AVW DICOM storage)	1TB SSD
Monitor	24 Inch single monitor (default) dual monitor (option)
Graphics cards	NVIDIA T1000
Others	DVD[2] drive, keyboard, and mouse
Operating System	Windows® 11

1 Advanced Visualization Workspace workstation hardware specification in this datasheet is just for reference. The Advanced Visualization Workspace workstation hardware that will eventually be delivered to customer under this datasheet either meets or exceeds the mentioned specifications.
2 The performance of DVD burner is as per the Windows® OS and the DVD burner hardware. If customer needs exceed typical usage, such as burning dozens of DVDs per day, a more robust solution like a third party DICOM DVD burning solution is recommended.

Supported Advanced Visualization Workspace workstation hardware

HP Z4 Gen4/5 is the only hardware configuration that will allow upgrades to Advanced Visualization Workspace 16.

Network specifications

LAN bandwidth between modalities and Advanced Visualization Workspace workstation should be a minimum of 100Mbit/s, with 1Gbps recommended.

2.2 Advanced Visualization Workspace

Advanced Visualization Workspace can be installed either on server hardware provided by Philips or on virtual server infrastructure provided by customer.

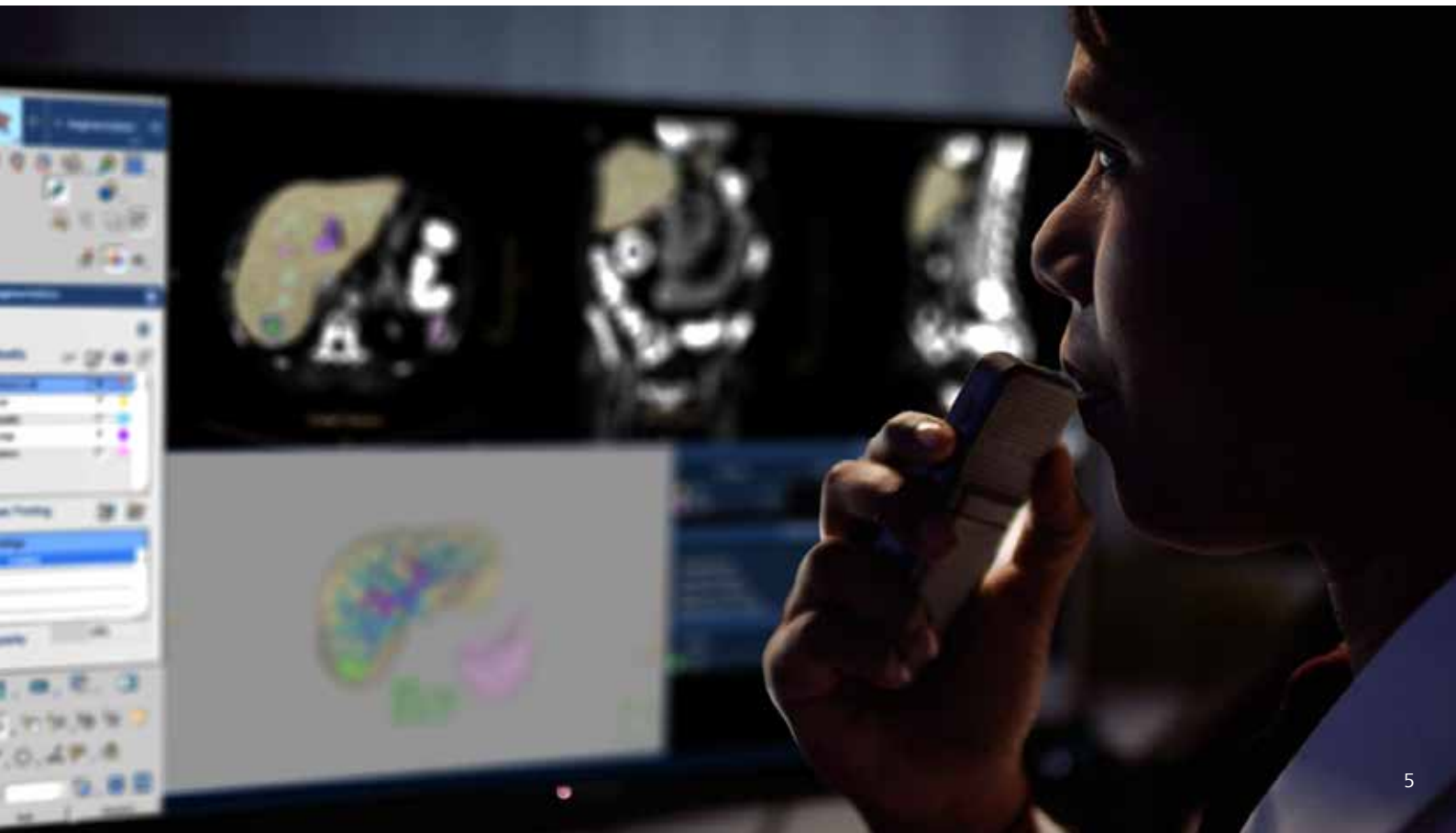
2.2.1 Server hardware specifications[1]

Hardware model	HPE DL360 Gen 11/ML350 Gen 11[1]
CPU	2x Intel® Xeon 6426Y,16 cores each
RAM	128GB
Hard drive	3x 1.2TB (default) 6x 1.2TB (option) RAID5
Power supply	Redundant Power Supply, (500W ML350, 800W DL360)
NIC card	Dual Port 1GBps and Dual Port 10Gbps NIC
Operating system	Windows Server 2025 -Standard Edition (English only)[2]

1 Advanced Visualization Workspace server hardware specification in this datasheet is just for reference. The Advanced Visualization Workspace server hardware that will eventually be delivered to customer by Philips (if any) under this datasheet either meets or exceeds the mentioned specifications.
2 Advanced Visualization Workspace server hardware is delivered with one instance of Microsoft Windows Server 2025 Standard Edition. Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client-access-license

Supported Advanced Visualization Workspace server hardware

HP ProLiant ML350 Gen 11 server and DL360 Gen 11 server are the only hardware configurations that allow the upgrade to Advanced Visualization Workspace 16.



2.2.2 Virtual server specifications

Advanced Visualization Workspace 16 supports deployment on virtual server infrastructure provided by the customer (VMware, Microsoft Hyper V or Nutanix).

Advanced Visualization Workspace Server Virtual Machine specifications	
Hypervisor version	One of the below: • VMware ESXi 7.x up to 8.0.[1] • Microsoft Hyper-V on Windows Server 2025 • Nutanix AHV hypervisor, 20190906, or higher
CPU	32 vCores Intel® Xeon Scalable Processors: 4th or 5th Generation with base frequency from 2.4GHz
RAM	128GB
Network Interface Card	1Gbps or 10Gbps
Storage	Drive C: minimum of 150GB Drive D: storage space up to 5TB
	Storage requirements: Drive should be optimized for reading performance with Random 4K IOPS = at least 250MB/s
Operating system	Windows Server 2025 - Standard, Datacenter and Enterprise Edition (English Only)[2]
Anti-virus	Either Microsoft Defender anti-virus software[3] provided by Philips or anti-virus software of choice provided by the customer
Other software requirements	.NET Framework 3.5 and .NET Framework 4.8 or higher

1 Supported for single server. Testing on dual server for supporting VMware ESXI 7.x up to 8.0 is Work in Progress and not available in any jurisdiction. Future availability cannot be ensured
2 Advanced Visualization Workspace server hardware is delivered with one instance of Windows Server 2025 - Standard, Datacenter and Enterprise Edition. Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client-access-license
3 Anti-virus scan exclusions are required, please contact your Phillips representative for detailed information

2.2.3 RAM/CPU specifications

Slice limit overview	
Advanced Visualization Workspace server configuration	**128GB RAM**
Single server	75.000
Dual server	**150.000**

Network specifications
In case of Advanced Visualization Workspace dual-server deployment, a dedicated 1Gbps connection is required between Advanced Visualization Workspace servers
Domain-based network environment (recommended)

2.3 Advanced Visualization Workspace enterprise

A typical implementation of Advanced Visualization Workspace enterprise solution usually comprises one Advanced Visualization Workspace enterprise engine and at least one Advanced Visualization Workspace application server. The number of Advanced Visualization Workspace application servers to be deployed depends on the number of concurrent users, the number of physical hospital locations, and the network characteristics (available bandwidth and latency) across sites. Additionally, a dedicated Advanced Visualization Workspace enterprise domain controller and service workstation may get installed.

Advanced Visualization Workspace enterprise solution can be installed either on server hardware provided by Philips or on virtual server infrastructure, provided by customer.

Advanced Visualization Workspace can be deployed using different configurations based on customer's exact requirements. Advanced Visualization Workspace enterprise can support a maximum of 50 CCU on main/central site and 150 CCU additionally on remote sites on distributed configuration. This means that the maximum supported CCU for distributed configuration is 200. For more information about these different Advanced Visualization Workspace enterprise configurations, please contact your local Philips representative.

2.3.1 Server advanced hardware specifications[1]

Hardware model	HPE DL380
CPU	2 x Intel® Xeon 6442Y, 24 cores
RAM	384GB
Hard drive	3 x 480GB SSD RAID5
Hard drive[2]	7x 2.4TB (default) up to 22x 2.4TB (option) RAID5
Power supply	Redundant Power Supply
NIC card	• Quadl Port 1GBps and Dual Port 10Gbps NIC • Dual port 10Gbps fiber optic (optional)
Hypervisor	Microsoft HyperV (for new shipments)
Operating system	• Windows® Server 2025 – Standard edition (English local)[3] • Microsoft SQL Server 2025 - Standard edition (English local)[3]
Anti-virus	Either Microsoft Defender version anti-virus software[4] (part of Windows® 2025 server) or anti-virus software of choice provided by customer.

1 Advanced Visualization Workspace enterprise Advanced server hardware specification in this datasheet is just for reference. The Advanced Visualization Workspace enterprise Advanced server hardware that will eventually be delivered to customer by Philips (if any) under this datasheet either meets or exceeds the mentioned specifications.
2 Advanced Visualization Workspace enterprise Advanced HW solution is delivered with default five years of VMware support and subscription contract.
3 Advanced Visualization Workspace enterprise Advanced HW solution is delivered with required Microsoft Windows® Server 2025 Standard Edition and SQL server 2025 Standard Edition. Microsoft Windows® Server 2025 and SQL server 2025 Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by the customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client- access-license.
4 Anti-virus scan exclusions are required, please contact your Phillips representative for detailed information.

2.3.2 Server premium hardware specifications

Hardware model	HPE DL380
CPU	2 x Intel® Xeon 6442Y, 24 cores
RAM	384GB
Power supply	Redundant Power Supply
NIC card	• Quadl Port 1GBps and Dual Port 10Gbps NIC • Dual port 10Gbps fiber optic (optional)
Hypervisor	Microsoft HyperV (for new shipments)
Operating system	• Windows® Server 2025 – Standard edition (English local)[1] • Microsoft SQL Server 2025 - Standard edition (English local)[1]
Anti-virus	Either Microsoft Defender version anti-virus software[2] (part of Windows® 2025 server) or anti-virus software of choice provided by customer.

1 Advanced Visualization Workspace enterprise premium HW solution is delivered with required Microsoft Windows® Server 2025 Standard Edition and SQL server 2025 Standard Edition. Microsoft Windows® Server 2025 and SQL server 2025 Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by the customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client-access-license.
2 Anti-virus scan exclusions are required, please contact your Phillips representative for detailed information.

Hardware model	HPE MSA
Hard drive	2 x 1.92TB SSD - RAID1
Hard drive	10x 2.4TB (default) up to 20x 2.4TB (option) RAID 5
HDD controller	12 Gb SAS 8 Port Dual Controller

2.3.3 Virtual server specifications

Advanced Visualization Workspace supports deployment on virtual server infrastructure provided by customer, either VMware, Microsoft Hyper V or Nutanix.

2.3.3.1 Advanced Visualization Workspace virtual server specifications

Hypervisor version	One of the below: • VMware ESXi 7.x up to 8.0[1] • Microsoft Hyper-V on Windows® Server 2025 and higher • Nutanix AHV hypervisor, 20190906, or higher
CPU	32 vCores Intel® Xeon Scalable Processors: 4th or 5th Generation with base frequency from 2.4GHz
RAM	128GB
Network Interface Card	10Gbps
Storage	Drive C: minimum of 150GB, preferably fast storage
	Drive D: minimum 500GB storage space up to 5TB
	For HDD-based setup: At least 850 IOPs for 4K Random Read /Throughput 3.5MB/s. For SSD-based setup: At least 5000 IOPs for 4K Random Read /Throughput 20MB/s.
Operating system	Windows® Server 2025 - Standard, Datacenter and Enterprise Edition (English Only)[2]
Anti-virus	Either Microsoft Defender version anti-virus software[3] (part of Windows® 2025 server) or anti-virus software of choice provided by customer.
Other software requirements	.NET Framework 3.5 and .NET Framework 4.8 or higher

1 Supported if IPv6 is disabled
2 Advanced Visualization Workspace server hardware is delivered with one instance of Windows® Server 2025 - Standard, Datacenter and Enterprise Edition. Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client-access-license
3 Anti-virus scan exclusions are required, please contact your Phillips representative for detailed information

2.3.3.2 Advanced Visualization Workspace enterprise engine virtual server specifications

CPU	6Cores Intel® Xeon Scalable Processors: 2nd Generation to 4th Generation Supported frequency from 2.3GHz
RAM	32GB
Network interface card	10Gbps
Storage	Drive C: minimum of 100GB, preferably fast storage
	Drive D: main storage drive: 0.5TB up to 20TB. Highly recommended to use of the VMWare Paravirtual adapter for optimized performance
	Storage access speed shall be equal or more than 6500 IOPS for 4k Random disk read
Operating system	• Windows® Server 2025 – Standard, Datacenter and Enterprise Edition (English Only) • Microsoft SQL Server 2025 - Express or Standard edition (English local)
Other software requirements	• .NET Framework 3.5 and • .NET Framework 4.8 or higher

Advanced Visualization Workspace provides new functionality called Photorealistic Volume Rendering. Photorealistic Volume Rendering will require virtual GPU resources. These virtual GPU resources should have a minimum of 8GB RAM, equivalent or better than NVIDIA T4/ A2 (8 TFLOPS for single precision) display card, per each virtualized Advanced Visualization Workspace server.

2.3.3.3 Advanced Visualization Workspace domain controller virtual server specifications

CPU	4Cores (no requirements on frequency)
RAM	8GB
Network interface card	1Gbps
Storage	Drive C: minimum of 100GB
Operating system	Windows® Server 2025 – Standard, Datacenter and Enterprise Edition (English Only)

2.4 Client specifications

2.4.1 Recommended client hardware specifications

Advanced Visualization Workspace client hardware should support the following recommended client hardware requirements. In order to ensure optimal compatibility, security, supportability and for optimal performance within the operating environment, the following requirements need to be met:

- All workstation components (CPU, chipset, storage, graphics, and peripherals) must be fully compatible with the installed and supported version of Microsoft Windows®.
- Processors (CPU) and all associated hardware (memory, storage, GPU, network adapters, etc.) must comply with current industry standards and be no older than the minimum version or generation required by Microsoft and/or relevant regulatory standards (maximum 4 years old).
- System firmware (BIOS/UEFI) and device firmware (e.g., SSD, NIC, GPU) must be maintained at manufacturer-supported versions.

Advanced Visualization Workspace provides new optional functionality MR CaaS 4D flow and Strain Analysis[1, 2]. Please note that this requires dedicated client hardware requirements.

1 3Mensio and CaaS is a trademark of Pie Medical Imaging Inc.

2 These functionalities may not be available in all territories. Please contact your local Philips representative for more information about availability.

	Processor	Memory	Network adapter card
Recommended Advanced Visualization Workspace client hardware specifications	6Cores @ 3.0GHz[1]	16GB[2]; DDR3 or above	1Gbit/s
Recommended client hardware specifications – with third parties (AQ, 4DM , MR CaaS ,Neuro Q, etc.)	6 Cores @3.5 GHz[1] Intel Gen 13 (and above) or equivalent	32GB[2]; DDR3 or above	1Gbit/s

1 Base frequency/P-cores in newer CPUs

2 Required Memory is dependent on client's intended use. AVW requires 8GB of available memory for optimal performance. Consider 32GB/64GB in case MS office programs or any other high memory demanding programs are being used on the same machine

2.4.2 Minimum client hardware specifications[1]

Processor	Memory	Network adapter card	Screen resolution
6Cores @ 3.0GHz	16GB	100 Mbps	1280x1024 pixels

1 System performance may be suboptimal with minimum specifications compared to recommended specifications Please contact your Philips representative for more details.

Additional client hardware specifications
Free disk space on C drive: 5GB or higher, C drive should be SSD drive
Additional 5GB of free disk space required to burn DVDs, 3-button mouse
Additional 80GB SSD free disk space required for MR CaaS 4D flow and Strain Analysis[1,2]
Additional 1TB SSD free disk space required for 3Mensio,[1]
When running Advanced Visualization Workspace on a 6MP/12MP diagnostic monitor in landscape mode, it is recommended to use an additional standard monitor for the Advanced Visualization Workspace Patient Directory and other system applications. This ensures that the entire 6MP/12MP screen remains dedicated to review and analysis applications.

1 3Mensio and CaaS is a trademark of Pie Medical Imaging Inc.

2 These functionalities may not be available in all territories. Please contact your local Philips representative for more information about availability.

2.4.3 Client display specifications

Advanced Visualization Workspace offers support for the following Diagnostic Monitors: • Landscape and portrait monitors up to 3MP • 6MP Landscape • 6MP monitors which are treated as 2 x 3MP monitors • 12MP Landscape • 12MP monitors which are treated as 2X6MP monitors
No support for monochrome or grayscale-only diagnostic monitors For 6MP, 12MP, and 4K resolution displays, set the Windows scaling factor to 125%. If the resolution is below 6MP, use a scaling factor of 100%. Resolution should be set to the maximum or highest available. If multiple monitors are being used, it is recommended to use same size, resolution, and scaling factor.
Graphics card with the following requirements: • Native DirectX 12.c support • Native GDI+ support • at least 128MB RAM Approved by diagnostic monitor provider with most up to date drivers
Graphics card with the following requirements when MR CaaS 4D flow and Strain Analysis[1,2] is required: • 4 GB or more dedicated GPU memory. • OpenGL 4.6 or higher support

2.4.4 Recommended client software specifications

Supported Windows® operating systems
Windows® 10 (64bit only)
Windows® 11 (64bit only)

For the latest supported windows build version, please contact your Philips representative.
It is published in "InCenter" (Windows compatibility section of AVW Server Software Installation Manual). Please refer to DynaCAD technical datasheet for DynaCAD application.

Additional client software specifications
NET® framework 4.8 or higher • Microsoft Visual C++ Redistributable package 2015-2022
Ability to add the Advanced Visualization Workspace to the firewall exception list
Additional software recommended (for optional functionality): • Adobe Acrobat Reader (for Reports and Help) • Windows® Media Player 12.x or above (for saving movies) • IMAPIv2 (for burning CD/DVD)
Browsers: Chrome
Desktop Virtualization technology: Citrix Xen Desktop version 7.8 and backward compatible until versions up to 7.1. and VMware Horizon VDI solutions

2.4.5 Minimum client network specifications

Advanced Visualization Workspace can also be used for remote or home reading. Please note that below the required network bandwidth and latency parameters will not provide the same viewing experience compared to the viewing experience inside the hospital.

Required network bandwidth and latency to support **efficient** remote or home reading:
• Download speed of 100 Mbit/s or above
• Upload speed of 100 kbit/s or above.
• Latency < 15 ms (on loaded network)

1 CaaS is a trademark of Pie Medical Inc.
2 These functionalities may not be available in all territories. Please contact your Philips representative for more details.

2.5 Advanced Visualization Workspace Zero Footprint Viewer[1]

Advanced Visualization Workspace Zero Footprint Viewer can be installed either on server hardware provided by Philips or on virtual server infrastructure provided by customer.

2.5.1 Server hardware specifications[2]

Hardware model	HPE MSA
CPU	2x Intel® Xeon 6426Y, 16 cores
RAM	128GB
Hard drive	3x 1.2TB
Power supply	Redundant Power Supply
NIC card	Dual Port 1GBps and Dual Port 10Gbps NIC
Operating system	Windows® Server 2025 -Standard Edition (English Only)[3]

1 Zero Footprint Viewer enables viewing - not intended for diagnostic image reading.
2 Advanced Visualization Workspace Zero Footprint server hardware specification in this datasheet is just for reference. The Advanced Visualization Workspace server hardware that will eventually be delivered to customer by Philips (if any) under this datasheet either meets or exceeds the mentioned specifications.
3 Advanced Visualization Workspace Zero Footprint server hardware is delivered with one instance of Microsoft Windows® Server 2025 Standard Edition. Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client-access-license

2.5.2 Virtual server specifications

Advanced Visualization Workspace Zero Footprint Viewer supports deployment on virtualization server infrastructure provided by customer, either VM- ware or Microsoft Hyper V.

Advanced Visualization Workspace Virtual Server specifications	
Hypervisor version	One of the below: • VMware ESXi 7.x up to 8.0 • Microsoft Hyper-V on Windows® Server 2025 and higher • Nutanix AHV hypervisor, 20190906, or higher
CPU	32 vCores Intel® Xeon Scalable Processors: 4th or 5th Generation with base frequency from 2.4GHz
RAM	128GB
Network Interface Card	1Gbps
Storage	Drive C: minimum of 100GB Drive D: minimum 500GB storage space up to 5TB
	Storage requirements: Drive should be optimized for reading performance with Random 4K IOPS = at least 250MB/s
Operating system	Windows® Server 2025 - Standard, Datacenter and Enterprise Edition (English Only)[1]
Anti-virus	Either Microsoft Defender anti-virus software[2] provided by Philips or anti-virus software of choice provided by the customer
Other software requirements	.NET Framework 3.5 and .NET Framework 4.8 or higher

1 Advanced Visualization Workspace server hardware is delivered with one instance of Windows® Server 2025 - Standard, Datacenter and Enterprise Edition. Client Access Licenses (CALs) for client machines are not included as part of the product and are to be obtained by customer. For more information about Microsoft CAL policy, please refer to https://www.microsoft.com/en-us/licensing/product-licensing/client-access-license
2 Anti-virus scan exclusions are required, please contact your Phillips representative for detailed information

Network specifications
LAN Network bandwidth between modalities, Advanced Visualization Workspace server and Advanced Visualization Workspace clients should be minimum 100Mbit/s but 1Gbps or above is recommended
LAN bandwidth between Advanced Visualization Workspace Zero Footprint server and Advanced Visualization Workspace Zero Footprint Viewer should be 10Mbit/s or above with latency <15ms (on loaded network)

2.5.3 Recommended client hardware specifications

Advanced Visualization Workspace Zero Footprint Viewer client hardware should support the following minimum hardware requirements.

	Processor	Memory	Network adapter card	Graphics card
Minimum	6Cores @ 2.5GHz of Intel Core 10th Generation or higher	6GB	10Mbit/s	Mid-range graphics card with OpenGL 3.2 support, 1GB on-board memor

2.5.4 Client software specifications

Supported Windows® operating systems
Windows® 10 (64bit only)
Windows® 11 (64bit only)
Browser compatibility Microsoft Edge Chrome latest version Safari on Mac OS





Advanced Visualization Workspace 16 is not available in the USA and certain other countries. Future availability cannot be ensured. Please contact your sales representative to determine if the product is available in your country.

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