



## FORUM 4.4 from ZEISS

Recommended hardware

Last updated: 2023-2



Seeing beyond

**Recommendations for ZEISS FORUM Archive 4.4 with up to 10 concurrent users**

Entry-level server hardware configuration for up to 10 concurrent users with clinical workplaces.

	<b>CPU</b>	Intel® Core™ i7-10510U processor or similar/better
	<b>RAM</b>	32 GB
	<b>Disk</b>	Redundant 1 TB 7200 RPM SATA or better
	<b>OS</b>	Windows 11, Windows Server 2019, Windows Server 2022
	<b>LAN</b>	1 Gbit/s

**Recommendations for ZEISS FORUM Archive 4.4 with up to 20 concurrent users**

Mid-range server hardware configuration for up to 20 concurrent users with clinical workplaces and up to 4 ZEISS CIRRUS OCTs.

<b>Redundant Power Supply</b>	<b>CPU</b>	Intel® Xeon® Gold 6246 processor or similar/better (12 cores, 3.4 GHz base frequency)
	<b>RAM</b>	32 GB
	<b>Disk</b>	OS volume: redundant 160 GB Data volume: redundant 250 GB, preferably SSD based (FORUM database) DICOM storage volume: redundant 4 TB ZEISS Retina Workplace cache: 2 TB ZEISS Glaucoma Workplace cache: 2 TB
	<b>OS</b>	Windows Server 2019, Windows Server 2022
	<b>LAN</b>	10 Gbit/s

Mid-range virtual-machine configuration for up to 20 concurrent users with clinical workplaces and up to 4 ZEISS CIRRUS OCTs.

<b>Hypervisor</b>		VMware vSphere or Microsoft HyperV Running on Intel® Xeon® Gold or Platinum processor with highest possible CPU clock rate (3.4 – 4.2 GHz)
<b>Virtual Machine</b>	<b>vCPU</b>	12 vCores (1 vSocket)
	<b>vRAM</b>	32 GB
	<b>vDisk</b>	OS volume: redundant 160 GB Data volume: redundant 250 GB, preferably SSD based (FORUM database) DICOM storage volume: redundant 4 TB ZEISS Retina Workplace cache: 2 TB ZEISS Glaucoma Workplace cache: 2 TB
	<b>OS</b>	Windows Server 2019, Windows Server 2022
	<b>LAN</b>	10 Gbit/s

### Recommendations for ZEISS FORUM Archive 4.4 with up to 50 concurrent users

Enterprise-level configuration for the application/database (FORUM server) for up to 50 concurrent users.

*This configuration requires a separate, dedicated server for the clinical workplaces.*

Redundant Power Supply	CPU*	Intel® Xeon® Gold 6244 processor or similar/better (8 cores, 3.6 GHz base frequency)
	RAM	24 GB
	Disk	OS volume: redundant 160 GB Data volume: redundant 500 GB, preferably SSD based (FORUM database) DICOM storage volume: redundant 8 TB
	OS	Windows Server 2019, Windows Server 2022
	LAN	10 Gbit/s

Enterprise-level virtual-machine configuration for the database (FORUM server) for up to 50 concurrent users.

*This configuration requires a separate, dedicated server for the clinical workplaces.*

Hypervisor	VMware vSphere or Microsoft HyperV Running on Intel® Xeon® Gold or Platinum processor with highest possible CPU clock rate (3.4 – 4.2 GHz)	
Virtual Machine	vCPU	8 vCores (1 vSocket)
	vRAM	24 GB
	vDisk	OS volume: redundant 160 GB Data volume: redundant 500 GB, preferably SSD based (FORUM database) DICOM storage volume: redundant 8 TB
	OS	Windows Server 2019, Windows Server 2022
	LAN	10 Gbit/s

### Recommendations for a dedicated ZEISS Retina Workplace Server

Enterprise-level configuration for the Retina Workplace server for up to 50 concurrent users.

The server may be a virtual machine with similar specifications.

Redundant Power Supply	CPU*	Intel® Xeon® Gold 6244 processor or similar/better (8 cores, 3.6 GHz base frequency)
	RAM	16 GB
	Disk	OS volume: redundant 160 GB Data volume: 2 TB (ZEISS Retina Workplace cache)
	OS	Windows Server 2019, Windows Server 2022
	LAN	10 Gbit/s

### Recommendations for a dedicated ZEISS Glaucoma Workplace Server

Enterprise-level configuration for the Glaucoma Workplace server for up to 50 concurrent users.

The server may be a virtual machine with similar specifications.

Redundant Power Supply	CPU*	Intel® Xeon® Gold 6244 Processor or similar/better (8 cores, 3.6 GHz base frequency)
	RAM	16 GB
	Disk	OS volume: redundant 160 GB Data volume: 2 TB (ZEISS Glaucoma Workplace cache)
	OS	Windows Server 2019, Windows Server 2022
	LAN	10 Gbit/s

## Recommendations for ZEISS FORUM Viewer 4.4 incl. Workplaces

	CPU	Intel® Core™ i5-10210U processor or similar
	RAM	8 GB (min. 4 GB free RAM available for FORUM Viewer)
	Disk	Min. 128 GB
	OS	Windows 10 (64 Bit), Windows 11
	Display	Resolution: min. 1680 x 1050 pixels   <b>recommended 1920 x 1080 pixels</b>
	LAN	1 Gbit/s

### Remote Desktop Session Host (Terminal Server)

CPU	Intel® Xeon® Gold or Platinum processor with highest possible CPU clock rate and number of CPU cores (2.8 – 4.2 GHz recommended).
RAM	48 GB (up to 12 concurrent users, each additional user requires 3 GB RAM added to terminal server)
Disk	Min. 128 GB
OS	Windows Server 2019, Windows Server 2022
LAN	10 Gbit/s

\* This CPU was used as the reference CPU for ZEISS FORUM 4.4 performance testing. ZEISS FORUM is a software designed to process images. Image processing is performed on the CPU (GPU is not utilized to process images). Image processing speed depends mostly on the CPU clock speed. Generally, the higher the clock rate, the less time it takes to process an image.

Image processing was redesigned in ZEISS FORUM 4.4 and reduced image processing time on the backend up to 50% compared to ZEISS FORUM 4.2.x.



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