Computer specifications

Practical guidance for Studio, Review and Segment | Windows and Apple silicon Mac

8 GB can support smaller cases; 16 GB is a sensible starting point for regular use. The developer reports good operation on an M1 MacBook Pro with 8 GB, and most routine cases working well on a 16 GB Windows PC. These observations are not a certified minimum or a guarantee for every study.

Component	Entry / routine use	Larger studies
Computer / OS	Windows 11 x64 PC; or Apple silicon Mac (M1 or later) with macOS 14 or later.	Use a current supported OS and graphics driver. Supplied Mac build is arm64; no Intel Mac installer is supplied.
Memory	8 GB for modest cases; 16 GB preferred for usual segmentation and review.	32 GB or more for large scans, many detailed masks, time sequences or several open modules.
Graphics	OpenGL 3.2-capable graphics for Slicer and hardware-accelerated WebGL for Studio. Integrated graphics can handle basic viewing.	Dedicated graphics help demanding volume rendering; Apple silicon uses shared unified memory.
Storage	SSD; allow about 15 GB free for install/setup and working files, plus your cases and backups.	More free space is needed for many scans, saved reports, undo copies and exported case archives.
Screen / input	1366 x 768 or above; keyboard and mouse/trackpad.	1920 x 1080 or above and a scroll-wheel mouse make detailed work easier.

Why case size matters

Segment uses 3D Slicer, so its published hardware guidance is the main starting point. Its memory rule of thumb is approximately ten times the loaded data size. Trinetra also needs room for 3D surfaces, history and open modules; compressed download size is not the memory requirement.

Internet is needed for managed licence activation/renewal and optional engine/extension downloads. Local case work is otherwise offline within the licence terms. Theatre hand tracking needs a camera. Experimental external solvers need separate setup; do not treat this sheet as a solver performance specification.

Source: 3D Slicer 5.12 system requirements, checked 16 October 2026. Storage and Trinetra memory tiers above are practical planning estimates; this is not hardware or clinical validation.