

# Computer Guidelines for IPS CaseDesigner® 2.3

Intel-based Macs: macOS® X Catalina (10.15) and macOS® Big Sur (11)

Apple Silicon Macs (M1 chip or higher): macOS® Big Sur (11)

IPS CaseDesigner® must be used with a compatible operating system.

## Recommended Requirements

<b>CPU</b>	A CPU with at least a dual-core processor and a high clock rate (3 GHz) is recommended.
<b>RAM</b>	IPS CaseDesigner® consumes a considerable amount of memory due to the large datasets. A RAM memory of 8 GB is therefore recommended.
<b>Graphics card</b>	<p>A dedicated graphics card with optimal 3D support (OpenGL® 3.3) and 2 GB onboard memory or more is recommended (such as AMD or NVIDIA), as IPS CaseDesigner® renders large amounts of 2D and 3D data. To check the OpenGL® version of your graphics card, go to <a href="http://realtech-vr.com/admin/glview">http://realtech-vr.com/admin/glview</a>.</p> <p>4 GB or more is recommended for 4K/Retina displays.</p> <p>The graphics card of some MacBook Air® and Mac mini® configuration has restrictions with regard to 3D rendering. Consider selecting planning mode for 3D lighting in the visualization setting if you experience issues.</p>
<b>Monitor</b>	The screen resolution is very important. Full HD (1920×1080) or higher, such as 1920×1200, is recommended.
<b>Internet</b>	A broadband Internet connection is required. Keep in mind that the upload and download speeds differ. An upload speed of 3 Mbps and a download speed of 30 Mbps or more are recommended.
<b>Disk space</b>	5 GB of free disk space is required for a standard installation. More disk space is used based on the number of patient files. A typical patient file is about 250 MB.
<b>Devices</b>	<p>iMac®, Mac mini® (*), Mac Pro®, MacBook Pro®, MacBook Air® (*). All models released since 2011 are supported.</p> <p>(* ) MacBook Air® and Mac® Mini configurations require at least an Intel HD 5000 / Iris graphics adaptor.</p>