

Deswik.Suite Minimum and recommended specifications

WORKSTATION REQUIREMENTS FOR DESWIK.SUITE

While there's some basic underlying hardware requirements for Deswik.Suite to perform well, the hardware spec required for workstations / PCs / laptops can vary depending on your use case and data sizes.

If you're at the stage of determining specifications for new machines and have any questions, please contact support@deswik.com.

	Minimum for Viewing & Drafting ¹	Minimum	Recommended	Huge Models ²
Processor	Quad Core 2.5Ghz+	Quad Core 2.5Ghz+	Quad Core 3Ghz	Quad Core 3.5Ghz+
RAM	8GB	16GB	32GB	64GB
Video Card ³	Integrated	1GB Video Card	2GB Video Card	4GB Video Card
Display Resolution ⁴	1920 x 1080			
Hard Drive	SSD Hard Drive			
Operating System ⁵	64 Bit versions of Windows 10 or Windows 11			
.NET Framework	4.7.2 or higher			
Visual C++ runtime libraries	2010, 64-bit, version 10.0.40219 or higher 2012, 64-bit, version 11.0.61030 or higher 2013, 64-bit, version 12.0.21005 or higher 2015-2022 64 bit, version 14.30.30704 or higher			
Microsoft Access Database Engine 2016 Redistributable	16.0.5044 or higher			

ADDITIONAL SPECIFIC GPU REQUIREMENTS

Feature	Graphics Hardware Requirements
Hardware-accelerated texture mapped images (Optional feature enabled in Tools Options that improves rendering of very large images)	Support for OpenGL 4.6 and GL_ARB_sparse_texture2 extension e.g. Nvidia Quadro P-series, GTX 10-series, RTX-series, and newer cards
Order Independent Transparency Allows drawing of complex overlapping scenarios of multiple transparent figures. Automatically used when supported	Support for OpenGL 4.2 and GL_ARB_fragment_shader_interlock extension e.g. Nvidia Quadro P or T-series, GTX 10-series, RTX-series, and newer cards. Intel Core i3/i5/i7 3rd gen or newer
Point Clouds (Deswik.AdvSurvey)	Support for OpenGL 4.5
Point Clouds (Deswik.AdvSurvey): Dynamic Filters	Support for OpenGL 4.6, GL_ARB_sparse_texture2 extension, and 4096MB of video RAM.

IT INFRASTRUCTURE REQUIREMENTS FOR DESWIK.SUITE

Network	Gigabit network (all links) from workstation to file server
File Server	File server to use SAS or SSD hard drives (not Near-line SAS or SATA)

SERVER REQUIREMENTS FOR NETWORK LICENSING COMPONENT – BASED ON 2019.1

Type	Physical or Virtual
Processor	Dual Core 2.5Ghz
RAM	2GB
Operating System	Windows 2012 R2 Server, or above (64 Bit only)
.NET Framework	4.6 or above

WORKSTATION REQUIREMENTS DETAIL

1. Lower spec machines may be able to run Deswik.Suite for viewing and drafting purposes, however the size of the file / data being loaded will be the limitation on the minimum spec machine required
2. Typically large open cut coal models
3. A note on Video Cards
 - Nvidia or AMD cards are supported BUT Nvidia cards are preferred and have proven to provide better performance with Deswik.Suite.
 - Intel integrated graphics cards are supported on a “reasonable efforts” basis and only under the following conditions:
 - i. The card is an Intel Skylake generation or higher card https://en.wikipedia.org/wiki/Intel_Graphics_Technology#Skylake
 - ii. The latest Intel graphics card drivers are installed
 - iii. The customer understands that integrated graphics cards will provide significantly poorer performance and may lack some functionality as opposed to a dedicated graphics card
 - All video cards must support OpenGL 4.3 or above. Video card drivers need to be up to date (no more than 12 months old).
 - Please note additional GPU requirements for specific features are listed in the table *Additional Specific GPU Requirements*
4. Lower display resolutions may work, but some controls may not be visible in some configurations.
5. Deswik follow the Microsoft Windows lifecycle for supported operating systems. For further details please refer to the Windows lifecycle fact sheet available from <https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet>. Deswik recommends your operating system is up to date with vendor approved drivers and BIOS.

