# System Requirements

## ERDAS IMAGINE

<table>
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<tr>
<th>Computer/ Processor</th>
<th>64-bit: Intel 64 (EM64T), AMD 64, or equivalent (four or more logical processors are strongly recommended)</th>
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<tr>
<td>Memory (RAM)</td>
<td>16 GB or more strongly recommended</td>
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| Disk Space          | • 6 GB for software  
                      | • 7 GB for example data  
                      | • Data storage requirements vary by mapping project¹ |
| Operating Systems   | • Windows 10 Pro (64-bit)  
                      | • Windows 10 Enterprise (64-bit)  
                      | • Windows Server 2016 (64-bit)  
                      | • Windows Server 2019 (64-bit) |
| Software            | • OpenGL 2.1 or higher (this typically comes with supported graphics cards ⁵)  
                      | • Java Runtime 1.7.0.80 or higher - IMAGINE Objective requires JRE and can utilize any installed  
                      | • Python 3.6.x or 3.7.x (Python is optionally usable with Spatial Modeler)  
                      | • Microsoft DirectX® 9c or higher  
                      | • .NET Framework 4.7.2 or higher  
                      | • OpenCL 1.2 with a device that supports double precision (cl_khr_fp64) if wanting to GPU accelerate  
                      | • An NVIDIA card with CUDA capabilities is recommended for use with Deep Learning. |
| Recommended Graphics Cards for Stereo Display ⁶ | • NVIDIA® Quadro® P6000, P5000, P4000, P2000  
                      | • NVIDIA® Quadro® M6000, M5000, M4000, M2000  
                      | • NVIDIA® Quadro® K5200, K5000, K4200, K4000, K2200, K600, K420  
                      | • NVIDIA Quadro RTX4000 |
| Recommended Stereo Display Monitors | • 120 Hz (or above) LCD Monitors with NVIDIA 3D Vision™ Kit, or  
                      | • 3D PluraView system from Schneider Digital ⁷  
                      | • Vision Engineering CONTOUR 3D stereoscopic GIS display |
| Recommended Stereo Glasses and Emitter kits | • NVIDIA 3D Vision™ Kit  
                      | • 3DTV universal Emitter |
| Peripherals         | All software installations require:  
                      | • One Windows-compatible mouse with scroll wheel or equivalent input device  
                      | • Printing requires Windows-supported hardcopy devices ⁸  
                      | Software security (Hexagon Geospatial Licensing 2020) requires one of the following:  
                      | • Ethernet card, or  
                      | • One USB port for hardware key  
                      | Advanced data collection requires one of the following hand controllers: ⁹  
                      | • TopoMouse™ or TopoMouse USB™  
                      | • Immersion 3D Mouse  
                      | • MOUSE-TRAK  
                      | • Stealth 3D (Immersion), S3D-E type, Serial Port  
                      | • Stealth Z, S2-Z model, USB version  
                      | • Stealth V, S3-V type (add as a serial device) |
**ArcGIS and GeoMedia Interoperability**

- ERDAS IMAGINE can be safely installed on a computer that has GeoMedia 2018 or GeoMedia 2020 installed; however, for greatest compatibility, it is highly recommended to install matching versions (including updates).
- ERDAS IMAGINE can interact with both types of personal Geodatabases (*.mdb and *.gdb).
- ERDAS IMAGINE can be safely installed on a computer that has ArcGIS® versions 10.6 through 10.8.1.
- ERDAS IMAGINE and IMAGINE Photogrammetry (32-bit) can interact with ArcGIS Server 10.6 – 10.8.1 Geodatabase servers (ArcSDE). To read or interact with an Enterprise Geodatabase, you must either:
  - Install and license the appropriate version of ArcGIS for Desktop versions 10.6 through 10.8.1, OR
  - Install the IMAGINE Geodatabase Support (based on ArcEngine 10.7) - requires no license.

**Database Engines**

- PostgreSQL 13.2 with PostGIS 3.1.1: PostGIS can be used to store GeoMedia Features (.ofp)
- Oracle Server 12c 12.2 64-bit: Oracle Server 12c can be used to store Oracle GeoRaster (.ogr) (requires Oracle Spatial), SDE Raster (.sdi) (requires ArcGIS for Server) and Oracle Spatial Features (.ogv) (requires Oracle Spatial), as well as GeoMedia Features (.ofp).
- Microsoft SQL Server 2017 64-bit: Microsoft SQL Server 2017 can be used to store GeoMedia Features (.ofp)

**ERDAS IMAGINE System Requirements Notes**

1. Disk I/O is usually the slowest task in geospatial data processing. Faster hard disks improve productivity. Reading data from one disk, writing temporary data to a second disk, and writing data to a third disk improves performance. Disk arrays improve productivity, but some RAID options slow performance. Network disk drives are subject to network limitations.

2. Server Operating Systems are not supported for IMAGINE Photogrammetry, ORIMA, or ERDAS ER Mapper.

3. The 3D stereo viewing and peripheral requirements of IMAGINE Photogrammetry limit its operating system options.

4. ERDAS ER Mapper is not supported on Windows 8. It is considered Viable on Windows 8.1.

5. Windows provides a generic OpenGL driver for all supported graphics cards; however, an OpenGL-optimized graphics card and driver are recommended for these applications.

6. Graphics cards certified with previous versions of IMAGINE Photogrammetry and ORIMA may also be compatible but are not certified in the current version. Drivers must not be newer than R418. NVidia dropped 3D Vision support for drivers released after R418 U4 (425.31), which was released on April 11, 2019.

7. Stereo Monitors certified with previous versions of IMAGINE Photogrammetry and ORIMA may also be compatible but are not certified in the current version.

8. HP-RTL drivers are recommended. Windows 64-bit print servers require 64-bit print drivers.

9. Stealth S-Mouse (S2-S model) and MOUSE-TRAK are the only supported hand controllers in Stereo Analyst for ERDAS IMAGINE.