



HiCAD

UNLIMITED CAD PERFORMANCE DEVELOPED BY ISD

CAD with HiCAD

Version 2023

System and Hardware Requirements

Date of issue: 22/06/2023

isdgroup.com



THE WORLD OF CAD AND PDM SOLUTIONS

TOC

Compatibility Matrix for Interfaces Applications (HiCAD)	4
System Requirements for HiCAD	6
System Requirements for Point Clouds	8

Compatibility Matrix for Interfaces Applications (HiCAD)

Listed below you find an overview of the interfaces that are available for HiCAD:

	HiCAD 2023	HiCAD 2022	HiCAD 2021
Operating system			
Windows 11, 64 Bit	✓	✓ (as of SP1)	✗
Windows 10, 64 Bit	✓	✓	✓
Windows 8.1, 64 Bit	✗	✗	✗
Windows 8, 64 Bit	✗	✗	✗
Windows 7, 64 Bit	✗	✗	✗
PDM system			
HELiOS 2023	✓	✓	✓
HELiOS 2022	✗	✓	✓
HELiOS 2021	✗	✗	✓
HELiOS 2020 or older	✗	✗	✗
Interfaces			
LogiKal 12	✓	✓	✓
Logikal 11	✓	✓	✓
LogiKal 10	✓	✓	✓
LogiKal 9	✗	✗	✗
PartSolutions 8 to 11	✗	✓	✓
KISSoft 03/2017 up to 03/2019	✓	✓	✓
CADClick 3.0	✓	✓	✓
Microsoft Office *			
*If communication between Microsoft Office and HiCAD takes place via the COM interface, then both must have the same Bit version (64/64 Bit). Otherwise problems may occur in connection with VBA, e.g. when creating/editing Excel BOMs.			
Office 2021	✓	✓	✗
Office 2019	✓	✓	✓
Office 2016	✓	✓	✓
Office 2013	✓	✓	✓

	HiCAD 2023	HiCAD 2022	HiCAD 2021
Browsers			
Internet Explorer 9 - 11	✓	✓	✓
Edge	✓	✓	✓
Mozilla Firefox	✓	✓	✓
Google Chrome	✓	✓	✓

The ✗ symbol does not always mean that the respective product is not compatible. It can also mean that the interactions between this product and the HELIOS Client have not been sufficiently tested by the ISD yet.

System Requirements for HiCAD

It is possible to obtain our software with workstations and monitors as end-to-end solution. Thus, it is ensured that with the right configuration you get the most out of our software. As a matter of course, we undertake site installation of the software and customize these in accordance with heterogeneous system environments of common products. No matter how you decide: It is up to you which hardware components are to be used.

Minimum hardware requirements *	
Computer	Generally, all hardware can be used enacting current drivers of applicable OS. Please note that for instance the graphic-card drivers support OpenGL command sequence. Internet connection and advice for the installation medium.
Processor (CPU)	Intel or AMD processor with AVX2 and FMA support. This is the case for all processor generations from Intel Haswell (2013) or AMD Excavator (2015).
Main memory	4 GB RAM
Hard disk	approx. 10 GB free disk space
Graphics card	A fully OpenGL 4.3-capable graphics card with at least 128 MB memory should be used. You can check whether the graphics output requirements of your computer are sufficient for HiCAD with the tool on the installation medium at Tools > TestGraphicsRequirements . To avoid possible problems with onboard graphics cards, we recommend using a stand-alone graphics card. .
Screen resolution	1920 x 1080
Operating system:	Microsoft Windows 10 or Microsoft Windows Server 2016 or higher
Other	For the output of reports, e.g. Sheet Metal cost calculations, you require Microsoft Office Version 2010 or higher

There are no further requirements for the installation of the **HiCAD Version with License Management**; the legal licensing check is performed during runtime.

Examples of suitable hardware components for HiCAD *	
Computer:	FUJITSU CELSIUS W5010
Processor (CPU):	Intel® Core™ i7-11700K (8 cores / 16 threads, 3.60 GHz to 5.0 GHz) SingleCore Benchmarks that can be found on various websites may help you with the choice of the processor. Example: https://www.cpubenchmark.net/singleThread.html
Main memory:	4 x 8 GB, DDR4, 2.933 MHz If you work with very large CAD drawings you should use computers with more RAM. For optimal performance with large drawings, the system should have significantly more main memory than is apparently necessary for HiCAD.
Hard disk:	1 x 512 GB, SSD M.2, 2,5 inches
Graphics card:	NVIDIA Quadro P1000 (4 GB) oder AMD WX3100 (4 GB) or higher. If you work with very large drawing files, a graphics card with a larger memory is recommended.

Examples of suitable hardware components for HiCAD *	
Screen resolution:	Working with a high screen resolution is only possible to a limited extent. Resizing of text ("Enlarge text") is not recommended.
Operating system:	Microsoft Windows 11 or Microsoft Windows Server 2019
Other:	For the output of reports, e.g. Sheet Metal cost calculations, you require Microsoft Office Version 2010 or higher.

* When using the HiCAD Point Cloud module, you will need a significantly higher hardware configuration. This also depends on the size of the project.



Please note:

- For the connection to Sentinel License Server, the Firewall of the UDP Port 5093 License Server must be released for in- and outgoing connections; for the Windows Firewall, the port release is executed automatically by activating the respective option in the installation program of the License Server.
- If you use network licenses, use the operating systems indicated in the System Requirements for the License Server.
- Internet access is necessary for the computer/server via which the licenses are managed!
- In addition, you need one of the database systems listed under Hardware Requirements for the HELiOS Database Server when using HELiOS.
- If you encounter any kind of display problems, please check if your graphics card driver is up-to-date first. If it is not, update to the current driver.

System Requirements for Point Clouds

The hardware requirements depend on the project size. For a project with 26 scan positions, the hardware equipment well suited for HiCAD works adequately. Since point clouds must be processed in addition to the usual data, the following applies:

Suitable hardware equipment when using the HiCAD Point Cloud module	
Processor (CPU):	Intel® Core™ i7-11700K (8 cores / 16 threads, 3.60 GHz to 5.0 GHz)
Main memory:	64 GB RAM
Hard disk:	1 TB Solid State Drive + regular HDD
Graphics card:	Dedicated, i.e. separately integrated, graphics card, OpenGL 4.3 or higher, at least 16 GB RAM
Operating system:	Microsoft Windows 10 or Microsoft Windows Server 2016 or higher

**Please note:**

Please note that the import of point clouds requires more RAM than using the point cloud in HiCAD.

Legal notes

© 2023 ISD @ Software und Systeme GmbH. All rights reserved.

This User Guide and the software described herein are provided in conjunction with a license and may only be used or copied in accordance with the terms of the license. The contents of this User Guide solely serve the purpose of information; it may be modified without prior notice and may not be regarded as binding for the ISD Software und Systeme GmbH. The ISD Software und Systeme GmbH does not assume any responsibility for the correctness or accuracy of the information provided in this document. No part of this document may be reproduced, saved to databases or transferred in any other form without prior written permission by the ISD Software und Systeme GmbH, unless expressly allowed by virtue of the license agreement.

All mentioned products are trademarks or registered trademarks of their respective manufacturers and producers.



Germany

Headquarter Dortmund

ISD Software und Systeme GmbH
Hauert 4
D-44227 Dortmund
Tel. +49 231 9793-0
info@isdgroup.de

Sales office Berlin

ISD Software und Systeme GmbH
Paradiesstraße 208a
D-12526 Berlin
Tel. +49 30 634178-0
berlin@isdgroup.de

Sales office Hamburg

ISD Software und Systeme GmbH
Strawinskyastraße 2
D-25337 Elmshorn
Tel. +49 4121 740980
hamburg@isdgroup.de

Sales office Hanover

ISD Software und Systeme GmbH
Hamburger Allee 24
D-30161 Hanover
Tel. +49 511 616803-40
hannover@isdgroup.de

Sales office Nuremberg

ISD Software und Systeme GmbH
Nordostpark 7
D-90411 Nuremberg
Tel. +49 911 95173-0
nuernberg@isdgroup.de

Sales office Ulm

ISD Software und Systeme GmbH
Wilhelmstraße 25
D-89073 Ulm
Tel. +49 731 96855-0
ulm@isdgroup.de

International

ISD Austria

ISD Software und Systeme GmbH
Hafenstraße 47-51
A-4020 Linz
Tel. +43 732 21 04 22-0
info@isdgroup.at

ISD Benelux - Hertogenbosch

ISD Benelux B.V.
Het Zuiderkruis 33
NL-5215 MV 's-Hertogenbosch
Tel. +31 73 6153-888
info@isdgroup.nl

ISD Benelux - Zwolle

ISD Benelux B.V.
Grote Voort 293A
NL-8041 BL Zwolle
Tel. +31 73 6153-888
info@isdgroup.nl

ISD France

ISD Group France SAS
10 -12 Boulevard Vivier Merle
F-69393 Lyon
Tel. +33 6 73 72 04 67
info@isdgroup.fr

ISD Switzerland

ISD Software und Systeme AG
Rosenweg 2
CH-4500 Solothurn
Tel. +41 32 624 13-40
info@isdgroup.ch

ISD Switzerland

ISD Software und Systeme AG
Rte du Jura 37 A, 4. Étage
CH-1700 Fribourg
Tel. +41 79 803 51 51
info@isdgroup.ch

ISD USA - North Carolina

ISD Group USA Inc.
20808 N Main Street, Suite 101
USA-Cornelius NC 28031
Tel. +1 770 349 6321
info@isdgroup.us

ISD USA - Georgia

ISD Group USA Inc.
5126 South Royal Atlanta Drive
USA-Tucker GA 30084
Tel. +1 770 349 6321
info@isdgroup.us

www.isdgroup.com