

## Technical Note

**Title:** MasterSeries Hardware Requirements 2023

**Date:** 15/09/2023

## MasterSeries 2023

### General Hardware/Software Requirements

	Minimum	Purchase of new Hardware
Operating System	Windows 10+ 64 bit only	Windows 10/11 ❶
Processor❷	Intel Core i5 or equivalent AMD	Intel Core i7+ or equivalent AMD
RAM Mb❸	8 GB+	16 GB+
Hard Drive (Excluding user files)	5 GB free	1TB M.2 NVME SSD ❹
External Mouse	3 button wheel mouse	Optical 3 button wheel mouse
Video Card❺	DirectX 11 compatible, 1MB+ video RAM & Hardware Acceleration	Separate DirectX 11 Graphics Card, 2GB+ dedicated Video RAM, Hardware Acceleration
Screen Size	15"+ LED	19"+ wide screen LED
Screen Resolution❷	900+ pixels deep	1600+ x 1080+
Internet connection❻ for licencing, downloads, updates, notifications, and technical support.	30 mbs+	

### Licencing

Licence Type Location	
Old - Purple USB Standalone Dongle	Needs internet to add and update module licences
Old - Red USB Network Dongle	Needs internet to add and update module licences can be placed on any PC Needs a network to share licence
Softlock Licence (2019+)	Needs internet to validate licence every 24 hours Can be placed on any PC Needs a network to share licence
Cloud Licence (2020+)	Needs constant internet access
Free trial Licence	Needs internet to activate licence
Student Licence	Needs internet to activate licence

### Notes

#### ❶ Operating System

MasterSeries is compatible with Windows 11.

Apple MAC - For the Commercial versions of MasterSeries, Apple Mac users can use “Parallels desktop” <http://www.parallels.com/> to run MasterSeries (we do not guarantee current or future compatibility)  
The 30-day trial & Student versions will NOT run on Apple Macs due to the software lock.

## ② Processor

MasterSeries utilizes parallel process and multi-threading. The higher the core count and the faster the clock speed the better.

**③ RAM:** The amount of RAM required is dependent on the amount of RAM your computer system uses. If you are networked, have anti-virus software, Outlook and the Microsoft Office loaded, then you will need to allow for this in your assessment of RAM.

**④ Hard Drives:** Most MasterSeries files are small, but FEA and large frame output files can be large.

The MasterSeries installation uses about 750 MB of hard disc space. A typical MasterSeries Data directory will grow over time, to about 1-5 GB. MasterFrame files are typically 1-10 MB in size dependant on frame complexity.

**⑤ VIDEO:** MasterSeries uses DirectX 11 for all 3D graphics. A dedicated graphics card is desirable, however latest Intel CPUs with on board GPU chips have substantially improved in recent years and have shown to be capable of running MasterSeries 3D graphics.

**⑥ Internet Connection:** ALL-new versions, updates and bug fixes to MasterSeries are uploaded to our Web Site [www.masterseries.com](http://www.masterseries.com). Full installations are 200-350 MB in size, and updates are commonly 30 MB.

Webinars and Web training requires a good broadband speed.

Note: Certain technical support functions can only be provided via remote assistance software. We currently use [www.fastviewer.co.uk](http://www.fastviewer.co.uk) for tech support and [www.gotomeeting.com](http://www.gotomeeting.com) for training.

The “Cloud Licence” type requires a contact internet connection.

**⑦ Screen Resolution:** The latest screens are 4K+. Be careful, as on a 4K 24” screen, text will be very difficult to read and lines will be very fine. Increasing the Windows screen scaling % will improve this.

## Licencing

MasterSeries default licencing is Cloud or Software Lock Licencing, replacing traditional USB hardware lock.