



MEDMONT STUDIO 6 BASE REQUIREMENTS

Base Requirements for Medmont Studio 6

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For systems that will host a Medmont E300 Topographer we **STRONGLY** advise that the special video and mainboard chipset requirements be carefully followed.

Deploying a system that does not use suitable hardware may fail to operate reliably, and will be subject to error messages, random freezing, and crashing when trying to capture exams.

For all other Medmont Studio installations (M700 host computer, Medmont Studio network server, and Medmont Studio client review stations) any PC that meets the base requirements is recommended.

Base Recommendations

CPU: Intel i5 generation 3 processor or better recommended

Mainboard: Genuine Intel chipset recommended

Hard Drive: 40GB (more for large databases or busy practices)

RAM: 8GB recommended

USB: 1-2 free USB 2.0 ports, depending on instrument

Supported Operating Systems

Windows 8 Pro, 8.1 Pro, 10 Pro (64 bit editions only)

Windows Server 2012, 2012 R2, 2016, 2019 (64 bit editions only)

Windows Server "Server Core" installations are not supported. (The normal graphical desktop environment is required to install and configure the Medmont Studio server.)

Virtualization

Medmont does not officially support virtualization, remote desktop services / terminal services, etc. If you encounter issues related to the virtualization or remote access you may need to provision a non-virtual / non-remote environment for technical support.

Hosting an instrument such as an E300 Corneal Topographer from a virtual or remote environment is not supported and not recommended. Medmont Studio should be installed in Windows running on the bare-metal on the PC the instrument is directly attached to.

The Medmont Studio network server and client review station roles are highly compatible with all major virtualization platforms.

Medmont Studio 6 E300 Host Computer Requirements

USB Converter Box – *If you are working with a newer Topographer, or acquiring a brand new Topographer it will connect to the PC via a USB Converter box.*

We have experienced a number of issues with the USB ports many computers (both desktops and laptops) are equipped with. If the USB converter box doesn't work reliably plugged directly into the computers USB ports, we have had a lot of success overcoming the issues by introducing a high quality powered USB hub between the computer and the topographer.

Leutron Vision Picport PCI Card– *If you are upgrading from a previous version and have an older Topographer that connects to the PC via a PCI Leutron Vision Picport video capture card. You will require a full height PCI slot to accommodate this card. We strongly recommend the PC form factor be a mid-tower.*

(You can also optionally purchase a USB converter upgrade kit for your topographer.)

Video Card

*Whether you are connecting your E300 topographer to your PC via the USB Converter or the Leutron card, a standalone high performance video card with dedicated video memory is **STRONGLY** recommended.*

Failure to use a suitably powerful video card can lead to error messages, an inability to initialize the E300, system freezes, and crashes when attempting to take exams.

Motherboard and CPU

Genuine Intel Chipset and Genuine Intel CPU

For maximum confidence in your system we recommend genuine Intel brand mainboards. There have been a number of reported compatibility issues with chipsets from other makers including VIA, nvidia (nforce), etc.

USB – USB Convertor Boxes

The USB convertor box requires a USB port. We recommend using the primary rear facing ports built into the motherboard vs front facing ports or ports attached to headers.

PCI – Legacy Leutron Based E300 Topographers Only

The Leutron Vision Picport Color PCI card requires 1 half-length full-height PCI slot. Small form factor cases often do not have enough room. A mid-tower case is usually preferable. Note it must be PCI not PCI-Express.

Additionally we currently recommend avoiding HP when making a purchase specifically to host a legacy Medmont E300 topographer with a Leutron Picport

Case and Power Supply

A mid-tower case is recommended, especially for older topographers that require the video capture card installed on a PCI slot.

We recommend using high quality power supplies. A poor power supply can be responsible for all kinds of intermittent and difficult to troubleshoot issues.

Also consider ventilation requirements; do not plan to store the PC inside a cupboard or other poorly ventilated area. We have encountered system issues related to overheating in those circumstances.

Medmont Studio 6 with the E300 Topographer on Laptops

The Medmont USB Convertor box for E300 Topographers can be used with a laptop. The general and special E300 system requirements for laptops are the same, with the following caveats:

- a) A standalone video card is generally not achievable; however we strongly recommend sourcing a laptop with a video chipset from AMD (Radeon) or nVidia (GeForce).*
- b) Avoid systems with hybrid graphics (where they feature both an Intel integrated chipset AND an nVidia or Radeon option); these have been problematic.*
- c) Seek out performance oriented brand name laptops in the 'desktop replacement' category. Laptops that are designed primarily for long battery life and low weight are less likely to be suitable.*

Medmont Studio 6 with an M700 Perimeter

The hardware requirements for the M700 are fairly straightforward.

We recommend a PC per the base recommendations; and any modern PC should be fine.

Audio – *The M700 component does have audio feedback. Basic integrated audio and the speakers built into some monitors, all-in-ones, or laptops are an ideal solution.*

USB – *Modern M700's attach to the PC via USB.*

Serial Port – *(very old legacy perimeters only) If you have an M600/M700 that connects via a Serial port, you will require a serial port, or USB->Serial adapter.*

Video – *Older M700 perimeters provide fixation monitoring through analogue to digital converter which requires third party drivers to work with Windows.*

The below list contains a list of the past analogue to digital converters and the operating system requirements.

Belkin "USB VideoBus II" – supported under Windows XP only. No longer available.

Belkin "Hi-Speed USB DVD Creator" – supported under Windows XP only. No longer available.

W18 "USB 2.0 A/V Converter" – supported under Windows XP and above. Including Win7/8.1/10 x86 and x64 architectures. No longer available.

Lindy "USB2.0 Grabber" – supported under Windows 10 64bit. This converter does not support Automatic Video Fixation Monitoring. Currently available for purchase from Medmont.

A camera upgrade kit is required to make legacy M700 Perimeters with a fixation camera and serial numbers lower than M714719 and manufactured during or before 2007, compatible with 64bit versions of Windows.

Medmont Studio 5 - Special Notes

We recommend all v5 users upgrade to the latest version of Medmont Studio 6 to take advantage of the latest features and fixes. Version 5 requirements are essentially the same as Version 6 as described above. V5.3.6 is the last version of v5.

Medmont Studio 4 – End of Life (EOL) Notice

With the release of version 6, version 4 is EOL.

We recommend all v4 and earlier users upgrade to the latest version of Medmont Studio 6 to take advantage of the latest features, fixes, and support. Medmont will cease to provide support for version 4, except as part of an upgrade to version 6.

Medmont Studio 4 – Special Notes

The following notes are provided ‘as-is’. Medmont only provides support for version 4 in conjunction with an upgrade to the current version.

Medmont Studio 4’s licensing system uses a USB dongle. The USB dongle is known to have compatibility issues with virtualization environments, and a Medmont Studio 4 server should not have the server installed in a virtual environment.

Medmont E300: There is a known compatibility issue with systems with 4GB or more that prevents it from capturing E300 exams. Medmont Studio 4 systems hosting an E300 must physically install 3GB or less.

Medmont M700: *some units will require a camera upgrade kit; see notes above for Medmont Studio 6 with M700.*

Medmont Studio 4 can generally be installed on 64-bit systems in the server role, and as client review station without difficulty.

Older releases of v4 including version 4.9 or earlier will not install at all on modern operating systems; please contact your distributor for a full installer of Medmont v4.14.1 if you need to install v4 on a newer computer.

Medmont Studio 3 and Earlier – End of Life (EOL)

Medmont Studio version 3 and earlier is EOL.

Medmont will not replace lost v3 licenses, or assist with v3 licensing or troubleshooting. Medmont will assist with the migration of legacy v3 data as part of a v6 upgrade, and upgrading is the only supported solution.