



maxident 6

MaxiDent Hardware Requirements

Revised June 2022

MaxiDent recommends that all computer systems meet recommended specifications before installing the MaxiDent Software Suite. Computer systems not meeting the below specifications may impact the performance of the MaxiDent Software Suite. Please call MaxiDent Technical Support at 1-888-629-4435 to arrange a review of your existing computer system or proposed new computer system **BEFORE** purchasing any supplementary hardware or software to ensure compatibility. MaxiDent reserves the right to revise this document at any time without notice.

The following specifications are intended for offices purchasing new computer hardware. These requirements are based upon performance studies and are intended to balance optimum software performance with best value for money in hardware purchases.

WORKSTATION	CPU: Intel Core i5 or i7 @ 2.6 GHz or better; DISK: 80 GB or larger; Memory: 8 GB - 16 GB RAM; Network: 1 GB NIC; Monitor: 24" LCD; OS: Windows 10 Pro, Windows 11 Pro. (NOTE: Highest usage computers - typically the front desk workstations - should opt for the higher specifications)
SERVER	CPU: Intel Core i9 or i7 8 cores or better; DISK: 300 GB or larger; Fault Tolerance: Hardware RAID; Memory: 16 GB RAM; Network: 1 GB NIC; Monitor: 24" LCD; OS: Windows Server 2016 Standard, Windows Server 2019 Standard.

NOTE: Intel M, S, T and U series processors (such as Intel Core i5-6700T or Core i5-7600T) are lower power designs and are not recommended for business servers or workstations.

NOTE: Advertised Turbo Boost frequencies (GHz) do not accurately reflect the base performance of the processor. Turbo Boost Technology 2.0 temporarily accelerates processor performance—limited by available system resources. The maximum advertised Turbo Boost speed may never be achieved. Always use the base processor frequency as a performance guideline when evaluating a computer.

Additional Specifications:

Supported Operating Systems	<ul style="list-style-type: none"> Windows 10 Pro, Windows 11 Pro. Windows Standard 2016, Windows Server Standard 2019. NOTE: While the Windows 11 OS is fully supported by MaxiDent 6, caution is advised if contemplating upgrading older computer systems to this OS, due to the risk of hardware and driver incompatibility. NOTE: Devices running any version of Windows RT operating systems are not supported by MaxiDent. NOTE: Terminal services, virtualized servers and workstations are supported by MaxiDent. IMPORTANT NOTE: The use of emulators and virtual machines to run Windows on other operating systems, such as Mac OS X, is not recommended. MaxiDent does not offer support for non-Windows operating systems.
Video Card	<ul style="list-style-type: none"> Dedicated or integrated video card supporting minimum 1440 x 900 resolution and 32 bit colour
Supported Hardware (Additional)	<ul style="list-style-type: none"> MaxiDent 6 is compatible with tablet / slate devices running Windows 8.1 Pro and Windows 10 Pro. Tablet or slate devices are subject to the same hardware specifications as laptop and desktop machines. Intel Atom or other low power processors are strongly not recommended.
Miscellaneous Components	<ul style="list-style-type: none"> Standard USB mouse & keyboard. Backup software (NOTE: MaxiDent Software offers an online backup solution for offices with high-speed Internet. Ask your MaxiDent Account Manager for more information) Monitors with Low Delta E and 3D LUT are recommended for digital x-rays and Dental Cone Beam CT imaging. Contact a MaxiDent Account Manager for additional monitor feature recommendations.
High-Speed Internet:	<ul style="list-style-type: none"> High-speed internet (cable or DSL) is required for MaxiDent remote technical support and for the submission of EDI claims via ITRANS, Instream or CDANet.
Printer/Scanner	<ul style="list-style-type: none"> A good quality laser printer. Hewlett Packard or Lexmark laser printers usually work well. Inkjet printers are not recommended and not supported. Scanning software should have either WIA/TWAIN driver for direct integration with Document Manager.
Networking Recommendations	<ul style="list-style-type: none"> Gigabit Ethernet network. See attached Network Diagram for recommended configuration.
Wireless Networking	<ul style="list-style-type: none"> We highly discourage the use of wireless networks as they can provide subpar performance, including instances of data loss in client server communications.
AntiVirus / Internet Security	<ul style="list-style-type: none"> Windows Defender is a free software product which offers basic protection. For a more comprehensive security solution that includes live monitoring and ransomware prevention, please contact a MaxiDent Account Manager for details on Trend Micro Endpoint Protection.

Network Diagram - Recommended Configuration (Dedicated Server)

The simplified network configuration depicted below, represents the recommended client/server configuration for a typical small office network.

The running of a dedicated server allows all machines on the network equal time access to shared resources - such as the MSSQL MaxiDent database - on that machine, providing optimal overall service across the network. The server machine where the SQL server is installed should never share network functions (for example domain AD controller or Exchange server) as this will have a deleterious effect on the functioning of the SQL server, resulting in lower quality performance.

Similarly, a combined workstation/server machine is not optimal as input/commands made directly on a computer - that is by a person working directly at the workstation/server computer - will always be given a higher priority by the operating system than requests originating from remote computers. This will result in remote workstations appearing to run more slowly when accessing shared resources such as the MSSQL Server hosting the MaxiDent database.

It is recommended that anti-virus/malware prevention software be run on the individual workstations, however it is generally not advisable to run firewalls - including the Windows Firewall - on individual computers as it can impede communications between machines on the network. The proper placement of a firewall is between the network and the internet. This may be accomplished either with a standalone hardware firewall device or with a firewall built into a network router.

Note that the busiest, most used computers - typically the front desk workstations - should be faster, higher quality machines with additional resources (faster CPU & additional memory) to accommodate the extra demands placed upon them.

