

# minimum system requirements



These are the minimum requirements for your Easy Dental 2008 practice management system. Please read thoroughly to ensure your practice's CPU and network configuration meet these minimum requirements for RAM and processor speed. Exceeding these minimum requirements will result in even better performance.

## front office workstation

### Hardware<sup>1</sup>

Intel Pentium IV 2.4 GHz  
512 MB RAM<sup>3</sup>, 2 GB available disk space<sup>4</sup> for workstation  
CD-ROM Drive<sup>5</sup>  
Ethernet 10/100/1000 network card<sup>6</sup>  
Third-Party add-in sound card<sup>7</sup>  
Standard CRT/LCD monitor w/minimum 1024x768 screen resolution  
32-bit color, 1024x768 resolution capable video card  
USB Chipset with 2 or more powered USB 2.0 ports<sup>8</sup>  
Additional PCI Express, AGP, PCI or USB 2.0 expansion slots may be required

### Supported operating systems<sup>9</sup>

Windows XP Professional, Windows 2000 Professional,  
Windows XP Tablet PC Edition, Windows Vista Business,  
Windows Vista Ultimate

## clinical workstation

### Hardware<sup>1</sup>

Intel Pentium IV 2.4 GHz  
512 MB–1 GB RAM<sup>3</sup>, 2 GB available disk space<sup>4</sup> for workstation  
CD-ROM Drive<sup>5</sup>  
Ethernet 10/100/1000 network card<sup>6</sup>  
Third-Party add-in sound card<sup>7</sup>  
Standard CRT/LCD monitor w/minimum 1024x768 screen resolution  
32-bit color, 1024x768 resolution capable video card  
USB Chipset with 2 or more powered USB 2.0 ports<sup>8</sup>  
Additional PCI Express, AGP, PCI or USB 2.0 expansion slots may be required

### Supported operating systems<sup>9</sup>

Windows XP Professional, Windows 2000 Professional,  
Windows XP Tablet PC Edition, Windows Vista Business,  
Windows Vista Ultimate

## dedicated server<sup>2</sup>

### Hardware<sup>1</sup>

Intel Pentium IV 2.4 GHz  
1 GB RAM<sup>3</sup>, 40 GB available disk space<sup>4</sup> for workstation  
CD-ROM Drive<sup>5</sup>  
Ethernet 10/100/1000 network card<sup>6</sup>  
Third-Party add-in sound card<sup>7</sup>  
Standard CRT/LCD monitor w/minimum 1024x768 screen resolution  
32-bit color, 1024x768 resolution capable video card  
USB Chipset with 2 or more powered USB 2.0 ports<sup>8</sup>  
Additional PCI Express, AGP, PCI or USB 2.0 expansion slots may be required

### Supported operating systems<sup>9</sup>

Windows 2003 Server, Windows 2000 Server

## easy dental<sup>®</sup> 2008 & easy image<sup>®</sup> 4.5

### Hardware<sup>1</sup>

Intel Pentium IV 2.4 GHz  
1 GB RAM<sup>3</sup>  
2 GB disk space<sup>4</sup> for workstation  
40 GB available disk space<sup>4</sup> for dedicated server  
CD-ROM Drive<sup>5</sup>  
Ethernet 10/100/1000 network card<sup>6</sup>  
Third-Party add-in sound card<sup>7</sup>  
Standard CRT/LCD monitor w/minimum 1024x768 screen resolution  
32-bit color, 1024x768 resolution capable video card  
USB Chipset with 2 or more powered USB 2.0 ports<sup>8</sup>  
Additional PCI Express, AGP, PCI or USB 2.0 expansion slots may be required

## microsoft<sup>®</sup> windows vista<sup>®</sup>

Windows XP Professional is currently the recommended client platform. Windows Vista Business or Windows Vista Ultimate can successfully be used for a Clinical Workstation or Front Office Workstation, but it is not supported as a server operating system for Easy Dental.

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**NOTE** Henry Schein Practice Solutions does NOT recommend or support software RAID, striped hard drives or T1 lines that are used in conjunction with Easy Dental. For Hardware RAID requirements or more specific network requirements, please review the current 'Network Guide'.

System Requirements are subject to change according to current computer industry standards. For complete system recommendations and requirements, please review the current 'System Requirements' and 'Network Guide'. These documents are available by calling 1-800-824-6375 or by visiting [www.easydental.com](http://www.easydental.com).

Support 1.800.593.2814 | [www.easydental.com/support](http://www.easydental.com/support) | 727 East Utah Valley Drive | American Fork, UT 84003

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## easy dental® 2008 minimum system requirements continued

**IMPORTANT NOTES** Hardware is a critical part of successful computerization and Henry Schein Practice Solutions strongly recommends adherence to the specifications listed when purchasing a new computer or upgrading your current system. Not meeting the minimum requirements does not mean your system will not function, but may result in unsatisfactory performance.

### additional software

Microsoft Word/Excel 2000, 2003 or 2007 is required for full letter-merge functionality; Anti-virus Software<sup>10</sup>; QuickBooks 2006, 2007, and 2008.

### backup system<sup>11</sup>

eBackup for Easy Dental is recommended. Windows approved backup system capable of backing up Easy Dental 2008, Henry Schein Guru patient education and Easy Image 4.5 software systems.

### digital cameras<sup>12</sup>

Standard TWAIN compliant cameras.

### hand-held devices

Any Palm compatible device running Palm OS 4.1 or higher.

### notes and additional recommendations

**1. HARDWARE CERTIFICATION** Make sure that all servers and workstations are Microsoft Certified for their respective operating systems. Each operating system should have the latest service packs and critical updates installed. Hardware upgrades (processor, disk, memory, graphics and/or network) may be required in order to take full advantage of the new features in Easy Dental and Easy Image 4.5. Hardware requirements can vary significantly depending on several factors including: the size and configuration of the network; make, model, configuration and speed of the workstations, size and complexity of the practice, other vendor's applications and many more. Easy Dental highly recommends the use of a Certified Integration Engineer (CIE) in conjunction with any Easy Dental installation (new or upgrade).

**2. SERVER** Easy Dental recommends running Easy Dental 2008 and Easy Image 4.5 on a dedicated server. A dedicated server is a computer which has a server version of Microsoft Windows (2000 Server or 2003 Server) installed on it. In an Easy Dental system, the server's primary function is as a database server for all of the workstations and should not be used as an Easy Dental workstation itself. It may also provide other server related functions like DHCP, Internet connectivity, or file and print sharing services. Both Easy Dental and Easy Image 4.5 may be installed and run together on the same dedicated server, but disk space, memory and networking throughput requirements should be evaluated and optimized to ensure that the overall response to the workstations is acceptable. Non-dedicated servers (servers that are also used as workstations) will require an additional 512MB of memory (or more) and preferably have a faster processor than the one listed in the system requirements to help reduce any latency/performance issues. Running Easy Dental on a non-dedicated server could impact the performance of the entire network. Windows Vista Business and Windows Vista Ultimate are not supported on the server.

**3. RAM** The amount of memory (RAM) needed on a particular workstation may depend on several factors including but not limited to: 1) the number and concurrency of the Easy Dental modules being used; 2) other applications and processes that are running simultaneously on the computer; 3) the type and speed of the memory being used; 4) the operating system requirements. This will help minimize the potential variability between different computers, and will better position each computer for a successful Easy Dental upgrade, minimizing the number of times the computer hardware needs to be upgraded.

**4. HARD DRIVE** Disk space listed in the system requirements is an estimate and will change depending on the size of the practice and the amount of data that is currently being stored and that will be stored in the future. For a dedicated Easy Dental server or Easy Image server, 40 GB is listed to estimate the space that may be needed for patient images or patient records that are stored in the Document Center. Systems being upgraded from previous versions of Easy Dental should have at least 10 GB of free space. Customers should continually evaluate their disk space needs and plan appropriately. Easy Dental only recommends hardware RAID 1 or 5 for additional fault tolerance and does not recommend software RAID or dynamic drives. Implementing RAID is not a backup solution. Disk compression utilities should not be used.

**5. CD-ROM/DVD DRIVES** For workstations, only one workstation needs to have a CD-ROM. The software can then be shared across the other workstations as needed. DVD-ROM drives are required for computers running Windows Vista.

**6. NETWORKS** Industry standard Ethernet network cards should be used that support the TCP/IP protocol. Easy Dental has seen success with the Intel Ethernet Pro 100 and the 3COM 3C905 Fast Etherlink XL PCI cards. Wireless networks are to be used at your own risk due to the inherent nature of interference in

### internet connection<sup>13</sup>

Features such as eServices, Lab Case Manager and Support Remote Assistance are dependent upon internet access. Dial-up or broadband fees may vary.

### uninterruptible power supply (ups)

UPS unit with shut-down software to safeguard against power fluctuations.

### printers<sup>14</sup>

Laser Printer for Printing Insurance Forms, Letters, Cards, Coupons, Envelopes, Statements, Reports. Color/Image Printer for Easy Image 4.5.

Label Printer for Easy Dental Labels.

### scanners<sup>15</sup>

Standard TWAIN compliant scanners.

dental offices with x-ray machines and other devices. Wireless networks require professional installation to ensure appropriate security and to provide a reliable signal in order for the Easy Dental system to operate correctly.

**7. SOUND CARD** A quality third-party sound card is required for Easy Image 4.5 and Easy Dental Scholar. The Sound Blaster Live and Audigy sound cards provide exceptional performance. In general, on-board sound cards are not supported because they don't have the quality necessary to support the Easy Dental product line. Add-in sound cards are only needed on the computers where sound products from Easy Dental are being run and accessed (e.g., if the Easy Dental server is running as a dedicated server, no add-in sound card is needed).

**8. USB** Easy Image 4.5 requires a USB port. Easy Dental recommends a motherboard with built-in USB 2.0 slots. The USB slots need to be powered so as to provide adequate power to the devices being plugged into them.

**9. OPERATING SYSTEMS** Only the operating systems listed in the system requirements are supported with Easy Dental 2008 and the Easy Image 4.5.

**10. ANTI-VIRUS SOFTWARE** Anti-virus software is recommended on all computers, but may affect individual system performance. Please see your hardware technician for recommended configuration options.

**11. BACKUP** A document that provides best practices for backup of Easy Dental can be downloaded from [www.easydental.com/support/easydental98-01](http://www.easydental.com/support/easydental98-01) or you can request a copy by calling Easy Dental Support at 1-800-593-2814.

**12. DIGITAL CAMERAS** Digital cameras without TWAIN support will not allow 'Acquire | Digital Camera...' feature to function in Document Center or 'Acquire New Image' in Patient Picture. Images must be retrieved or imported as graphic files into these modules. Some cameras may not be compatible with Windows Vista. Check with your camera manufacturer for an updated driver prior to upgrading to ensure compatibility.

**13. MODEMS** Modems should be DOS compatible. The 3COM/US Robotics 56Kbs V.91 modem has been very reliable. WinModem and AMR modems should not be used. Some devices may not be compatible with Windows Vista Business or Windows Vista Ultimate. Check with your peripheral manufacturer prior to upgrading to ensure compatibility.

**14. PRINTERS** For the typical dental office, Easy Dental recommends installation of two (2) printers on the network: a laser printer for all insurance forms, letters, cards, coupons, envelopes, statements, reports, and a color printer for tooth charts or image and x-ray printouts. Easy Dental does not recommend using an inkjet printer as your primary printer. Choose a printer based on your practice demands. Every printer has a 'page-per-minute' speed and an approximate number of pages per month which should be evaluated, based on your practice needs. Easy Dental has had success with the HP LaserJet 4250, HP Color LaserJet 2600, HP Business InkJet 2800, Epson LQ 2090, DYMO LabelWriter 400 Turbo, and Seiko Label Printer 450. Some printers may not be compatible with Windows Vista. Check with your printer manufacturer for an updated driver prior to upgrading to ensure compatibility.

**15. SCANNERS** Some scanners that claim to be TWAIN compliant are not. Easy Dental has had success with the Xerox Documate 272 and HP ScanJet 5590. Multi-function print/scan/copy machines are not recommended. Some scanners may not be compatible with Windows Vista. Check with your scanner manufacturer for an updated driver prior to upgrading to ensure driver compatibility.

Easy Dental 2008 and Easy Image 4.5 system requirements are based on a network consisting of 10 computers or less. If you have more than 10 computers, you may need faster/better computers or networking infrastructure. Over time, system requirements change; please visit the Easy Dental Web site for the latest updates. It is recommended to have a local network technician for network maintenance that is an Easy Dental Certified Integration Engineer (CIE) or Microsoft Certified Systems Engineer. You can find the nearest CIE in your area by going to [www.easydental.com/training](http://www.easydental.com/training). We recommend purchasing hardware from a reputable dealer offering ongoing service and support.