

PracticeWorks strongly adheres to compliance with Microsoft Windows operating systems and hardware compatibility (HCL), which can be found at <http://www.microsoft.com/whdc/hcl/default.mspx>. Only operating systems and hardware listed in this document have been fully tested and certified with Kodak Orthodontic Imaging software. Before purchasing any equipment, please review the latest System Requirements located online at: [http://www.kodakdental.com/documentation/sysReqs/Orthodontic\\_Imaging.pdf](http://www.kodakdental.com/documentation/sysReqs/Orthodontic_Imaging.pdf).

<p><b>Dedicated Server</b></p>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 3.0 GHz or faster CPU</li> <li>▪ 2 GB RAM</li> <li>▪ 200 GB or larger Hard Drive</li> <li>▪ DVD-RW Drive</li> <li>▪ Ethernet 100/1000 network card</li> <li>▪ 32-bit 1280x1024 resolution capable video card</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> </ul> <p><b>Supported Operating Systems</b>          Windows 2008 Server          Windows 2003 Server</p>	<p>This computer stores all the imaging data but is not used to run any programs. Recommended for large office (10 or more workstation) installations.</p>
<p><b>Capture/Server Computer System</b></p>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 3.0 GHz or faster CPU</li> <li>▪ 4 GB RAM</li> <li>▪ 200 GB or larger Hard Drive</li> <li>▪ DVD-RW</li> <li>▪ Ethernet 100/1000 network card</li> <li>▪ VGA/HDMI-compatible Graphics card with 512 MB or higher video memory and a minimum resolution of 1280x1024</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> </ul> <p><b>Supported Operating Systems</b>          Windows XP Professional Service Pack 3          Windows Vista Business          Windows Vista Ultimate          Windows Vista Enterprise          Windows Vista Home Premium          Windows 7</p>	<p>Combination file server and acquisition PC. This computer stores all the imaging data and is also used as an imaging workstation. Recommended for medium to small offices (less than 10 PCs).</p> <p>RAM has a major impact on system performance.</p> <p>Video RAM has a major impact on system performance.</p> <p>For stations that will view 3D volumes, see the system requirements in the hardware section.</p> <p>Due to a limitation of 10 concurrent connections, if more than 10 computers exist on the network then a server class OS is required.</p> <p>64-bit versions of Windows are not currently supported</p>
<p><b>Imaging Workstation</b></p>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 2.0 GHz or faster CPU</li> <li>▪ 2 GB RAM</li> <li>▪ 80 GB or larger Hard Drive</li> <li>▪ DVD-ROM Drive</li> <li>▪ Ethernet 100/1000 network card</li> <li>▪ VGA/HDMI-compatible Graphics card with 512 MB or higher video memory and a minimum resolution of 1280x1024</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> </ul> <p><b>Supported Operating Systems</b>          Windows XP Professional Service Pack 3          Windows Vista Business          Windows Vista Ultimate          Windows Vista Enterprise          Windows Vista Home Premium          Windows 7</p>	<p>64-bit versions of Windows are not currently supported</p> <p>RAM has a major impact on system performance.</p> <p>Video RAM has a major impact on system performance.</p> <p>For stations that will view 3D volumes, see the system requirements in the hardware section.</p> <p>64-bit versions of Windows are not currently supported</p>

Additional Functionality for Kodak Orthodontic Imaging Software		
Internet Connection	<ul style="list-style-type: none"> <li>Broadband internet access</li> </ul>	Remote access is used by support to connect to you office to assist in resolving any issues It is recommended that no printer monitor software be installed on any PC used to acquire digital x-rays
Printers	<ul style="list-style-type: none"> <li>Color Inkjet Printer</li> </ul>	
Scanner	<ul style="list-style-type: none"> <li>TWAIN compliant scanner with a full-sized transparency adapter capable of at least 1600x3200 dpi resolution</li> </ul>	
Digital Camera	<ul style="list-style-type: none"> <li>Digital camera capable of producing Windows graphics files - Canon PowerShot G10</li> </ul>	Camera should be capable of taking images at 1280/960 dpi or less and storing them in a standard Windows graphic file format.
Backup System Uninterruptible Power Supply	<ul style="list-style-type: none"> <li>Windows approved backup system capable of backing up the entire Imaging data</li> <li>Any UPS with shutdown software, for use on the server</li> </ul>	
Intraoral digital radiography	<ul style="list-style-type: none"> <li>Kodak RVG 6100 digital radiography system</li> </ul>	Powered USB 2.0 port required
Intraoral video capture	<ul style="list-style-type: none"> <li>Kodak 1000 intraoral video camera system</li> </ul>	Powered USB 2.0 port required
Computed radiography	<ul style="list-style-type: none"> <li>Kodak CR 7400 phosphor plate system</li> </ul>	Powered USB 2.0 port required
Panoramic digital radiography	<ul style="list-style-type: none"> <li>Kodak 8000 digital panoramic system</li> <li>Kodak 9000 digital panoramic system</li> </ul>	
Cephalometric digital radiography	<ul style="list-style-type: none"> <li>Kodak 8000C digital cephalometric system, full-height PCI card slot and serial port required</li> <li>Kodak 9000C digital cephalometric system, two network adapters</li> </ul>	
3D computed tomography	<ul style="list-style-type: none"> <li>Kodak 9000 3D extraoral imaging system, two network adapters</li> <li>Kodak 9500 3D extraoral Imaging system, three network adapters</li> </ul>	
Card Reader	<ul style="list-style-type: none"> <li>Card reader compatible with selected camera</li> </ul>	A card reader is not required when using any of the recommended camera types
Tablet PC	<ul style="list-style-type: none"> <li>Tablet PC's must meet the hardware requirements listed above</li> </ul>	Tablet PC's used to acquire images from either Intra Oral sensors or cameras must have a powered USB 2.0 port, be connected to a direct power source, and connected to the network through a network cable.

PracticeWorks has tested and certified the following hardware and software with Kodak Orthodontic Imaging software:

**Processor Families:**

Intel Pentium 4

Intel Core2 Duo

**Image Scanners (w/Transparency Adapters):**

Epson Expression 1680

Epson Perfection v700 Photo

**Inkjet Printers**

HP Photosmart 7760 Printer

**Intraoral Sensors**

Trophy RVG UI (PCI and USB)

Kodak 5000, 5100

Kodak 6000, 6100

**Intraoral cameras**

Kodak 1000

**Extraoral Radiography devices**

Kodak 8000

Kodak 8000C

Kodak 9000 3D

Kodak 9000C 3D

Kodak 9500

**Computed Radiography**

Kodak CR 7400

**Digital Cameras:**

KODAK P712 System

KODAK 7590 System

KODAK 6490 System

Canon EOS Rebel XSi

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## Kodak Digital X-Ray Equipment Hardware Requirements

<b>9000 3D Acquisition Workstation</b>	A PC is supplied by PracticeWorks or an NSP with the 9000 3D unit.	
<b>9000 Acquisition Workstation (Pan/Ceph only)</b>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 2 GHz or faster</li> <li>▪ 2 GB RAM</li> <li>▪ 10 GB free disk space</li> <li>▪ DVD-ROM drive</li> <li>▪ Two Ethernet 100/1000 network cards</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> <li>▪ nVidia video board supporting CUDA with 256 MB of video RAM on AGP x8 video bus or better</li> <li>▪ Additional PCI Express, AGP or USB 2.0 expansion slots may be required</li> </ul>	<p><b>Supported Operating Systems</b></p> <p>Windows XP Professional Service Pack 3                  Windows Vista Business                  Windows Vista Ultimate                  Windows Vista Enterprise</p> <p>64-bit versions of Windows are not currently supported</p>
<b>90003D Viewing Workstation</b>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 2 GHz or faster</li> <li>▪ 2 GB RAM</li> <li>▪ 10 GB free disk space</li> <li>▪ DVD-ROM drive</li> <li>▪ Ethernet 100/1000 network cards</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> <li>▪ nVidia video board supporting CUDA with 512 MB of video RAM on AGP x8 video bus or better</li> <li>▪ Additional PCI Express, AGP or USB 2.0 expansion slots may be required</li> </ul>	<p><b>Supported Operating Systems</b></p> <p>Windows XP Professional Service Pack 3                  Windows Vista Business                  Windows Vista Ultimate                  Windows Vista Enterprise</p> <p>64-bit versions of Windows are not currently supported</p>
<b>9500 Acquisition Workstation</b>	PC is supplied by Practiceworks or an NSP with the 9500 unit.	
<b>9500 3D Viewing Workstation</b>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 2 GHz or faster</li> <li>▪ 4 GB RAM</li> <li>▪ 10 GB free disk space</li> <li>▪ DVD-ROM drive</li> <li>▪ Ethernet 100/1000 network cards</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> <li>▪ nVidia video board supporting CUDA with 512 MB of video RAM on PCI Express video bus or better</li> <li>▪ Additional PCI Express, AGP or USB 2.0 expansion slots may be required</li> </ul>	<p><b>Supported Operating Systems</b></p> <p>Windows XP Professional Service Pack 3                  Windows Vista Business                  Windows Vista Ultimate                  Windows Vista Enterprise</p> <p>64-bit versions of Windows are not currently supported</p>
<b>Kodak 8000/8000C Acquisition Workstation</b>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Pentium 4 3.2 GHz or faster</li> <li>▪ 1 GB RAM</li> <li>▪ 10 GB free disk space</li> <li>▪ DVD-ROM drive</li> <li>▪ Two Ethernet 100/1000 network card</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024 screen resolution</li> <li>▪ VGA/HDMI-compatible Graphics card with 512 MB or higher video memory and a minimum resolution of 1280x1024</li> </ul>	<p><b>Supported Operating Systems</b></p> <p>Windows XP Professional Service Pack 3                  Windows Vista Business                  Windows Vista Ultimate                  Windows Vista Enterprise</p> <p>64-bit versions of Windows are not currently supported</p>

## Kodak Orthodontic Imaging Multi Location Solutions

<b>Application Server</b>	<p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>▪ Intel Core2 Duo Processor 2.0 GHz or faster CPU</li> <li>▪ 4 GB RAM</li> <li>▪ 200 GB or larger Hard Drive</li> <li>▪ DVD-RW</li> <li>▪ Ethernet 100/1000 network card</li> <li>▪ VGA/HDMI-compatible Graphics card with 512 MB or higher video memory and a minimum resolution of 1280x1024</li> <li>▪ Standard CRT/LCD monitor with a minimum of 1280x1024</li> <li>▪ 4 screen resolution</li> </ul> <p><b>Supported Operating Systems</b>                  Windows Server 2003                  Windows Server 2008</p>	<p>64-bit versions of Windows are not currently supported</p> <p>RAM has a major impact on system performance.</p> <p>Windows Terminal Services must be installed on the Application Server and a client access license is required for each workstation that will connect to the Application server</p> <p>3D volumes cannot be viewed inside terminal session</p>
<b>Remote PC Based systems</b>	<ul style="list-style-type: none"> <li>▪ Remote PC's that will be used to run Kodak Orthodontic Imaging should meet the requirements an Imaging workstation listed above</li> </ul>	<p>For stations that will view 3D volumes, see the system requirements in the hardware section.</p>
<b>Thin Clients</b>	<ul style="list-style-type: none"> <li>▪ Any device capable of running Microsoft RDP software and supports network connectivity using TCP/IP. The device should be capable of generating a display with at least 16bit color at 1280x1024 resolution.</li> </ul>	
<b>Wide Area Network</b>	<ul style="list-style-type: none"> <li>▪ Practiceworks recommends using a high speed, dedicated, point to point connection between offices such as a T1 connection</li> </ul>	<p>Transferring of data between offices is limited to the amount of bandwidth dedicated to the connection between offices and the amount of traffic on your network. Low bandwidth connections or large amounts of traffic can greatly affect the speed of viewing and saving images between offices.</p>

## Notes & Recommendations:

- **Backups and Uninterruptible Power Supplies** – PracticeWorks suggests that you perform a nightly backup on removable media and keep that media in a fireproof safe off-site. PracticeWorks also recommends that you have a UPS with shutdown software installed at the server machine.
- **Hardware Compatibility:** PracticeWorks strongly adheres to compliance with Microsoft Windows operating systems and hardware compatibility (HCL), which can be found at <http://www.microsoft.com/whdc/hcl/default.mspx>. Only operating systems and hardware listed in this document have been fully tested and certified with Kodak Orthodontic Imaging software. Before purchasing any equipment, please review the latest System Requirements located online at: [http://www.kodakdental.com/documentation/sysReqs/Orthodontic\\_Imaging.pdf](http://www.kodakdental.com/documentation/sysReqs/Orthodontic_Imaging.pdf). System Requirements are updated regularly. Hardware upgrades (processor, disk, memory, graphics and/or network) may be required in order to take full advantage of the new features in the latest versions of the software. 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.
- **Operating System Updates:** 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 and Software Performance:** in general, performance can be improved by doing one, some or all of the following: Increasing the amount of memory (RAM) on a workstation or server; replacing the hard drive with a newer, larger, faster model; upgrading the CPU to a faster speed. Results are not guaranteed.
- **Antivirus** – A comprehensive anti-virus product must be installed and configured properly. Real-time scanning is not recommended due to the negative impact it may have on network performance. If scheduled scans are run, make sure that they are set for outside of business hours as they may create additional latency issues on your computer.
- **Internet Connection:** Although it is not necessary for Kodak Orthodontic Imaging software to have an internet connection to fully-function, Kodak strongly recommends that there be an always-on internet connection available to your network. This allows the Kodak Support Department to provide assistance quickly and easily to your software and hardware when needed. If this kind of internet connection is not feasible for your practice, having a modem and remote control software (such as PCAnywhere) installed on your server will suffice.
- **Email functionality:** Microsoft Outlook and Outlook Express software have been tested and are certified for use with Kodak Orthodontic Imaging software. AOL's email software is not compatible with Kodak Orthodontic Imaging. Any web-based email interface (like Yahoo, Hotmail, Gmail) will not be compatible with the email menu options in Kodak Orthodontic Imaging.

## Vista compatibility notes:

- The following products are not compatible with Microsoft Windows Vista:
  - Trophy ISA cards that control sensors, cameras, or Digipan units
- Microsoft Windows Vista is not a server-class operating system and should not be used as a data server when using Kodak Orthodontic Imaging.

## Windows 7 compatibility notes:

- The following products are not compatible with Microsoft Windows 7:
  - Trophy ISA cards that control sensors, cameras, or Digipan units
  - Kodak 8000/8000C (all versions)
  - Kodak 9000/9000C/90003D
  - Kodak 1500 IntraOral camera
  - Kodak 9500 CBCT Mid and Large Field
  - CR7400
  - Kodak RVGui PCI, RVGui USB, RVG 5000, RVG5100, RVG 6000, RVG6100 intraoral radiography systems
- Microsoft Windows 7 is not a server-class operating system and should not be used as a data server when using Kodak Orthodontic Imaging.