

Carestream Dental strongly adheres to compliance with Microsoft Windows operating systems and hardware compatibility found at <http://www.microsoft.com/whdc/hcl/default.msp> Only non-emulated Windows operating systems and hardware listed in this document have been fully tested and certified with Carestream Dental Imaging Software. Virtual machines or emulated operating systems are not supported.

Product	Hardware	Supported Operating Systems
<p>Dedicated Image Server (When Images are <u>not</u> managed by the practice management software and managed by the Carestream stand alone patient browser instead) (no Imaging software, no driver can be installed on the server, this is for storage purposes only)</p>	<ul style="list-style-type: none"> Pentium 4, 3.2 GHz, 2 GB system RAM 1 TB available disk space (RAID setup recommended) DVD drive Ethernet 100/1000 NIC 1024 x 768 32-bit video card and supporting monitor Gigabit Ethernet switched network recommended 	<p><u>64-bit only</u> Windows 2012 Server R2, Windows 2008 Server R2</p>
<p>CS Imaging Viewing Workstation (no image acquisition - If a piece of imaging hardware is connected then refer the minimum requirement of this hardware below)</p>	<ul style="list-style-type: none"> Intel Core2 Duo 2.4 GHz, 2 GB system RAM (4 GB recommended) 80 GB free disk space (250 GB recommended) DVD RW drive Ethernet 100/1000 NIC Graphic-based board supporting Open GL 1.2 with 512 MB of video RAM on AGP x8 video bus 17" Monitor supporting 1280 x 1024, 32-bit color 	<p><u>32 or 64-bit</u> Windows 7: Professional, Ultimate, Enterprise <u>64-bit only</u> Windows 8 and 8.1: Professional, Enterprise (no touch screen desktop) Windows 10: Professional, Enterprise</p>
<p>CS 3D Imaging Viewing Workstation (no image acquisition - If a piece of imaging hardware is connected then refer the minimum requirement of this hardware below)</p>	<ul style="list-style-type: none"> Intel Core2 Duo 2 GHz, 2 GB system RAM (4 GB recommended) 80 GB free disk space (250 GB recommended) DVD RW drive Ethernet 100/1000 NIC Graphic card: nVidia GTS 450 17" Monitor supporting 1280 x 1024, 32-bit color 	<p><u>64-bit only</u> Windows 7: Professional, Ultimate, Enterprise Windows 8 and 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>
<p>CS 3D Imaging + PDIP* Viewing Workstation (no image acquisition - If a piece of imaging hardware is connected then refer the minimum requirement of this hardware below) *Prosthetic Driven Implant Planning module</p>	<ul style="list-style-type: none"> Intel Core i7-2600, 8 GB system RAM 80 GB free disk space (250 GB recommended) DVD RW drive Ethernet 100/1000 NIC Graphic card: 1GB dedicated memory with open GL v2.0 support (AMD/ATI and Intel graphics chipset are NOT SUPPORTED) 17" Monitor supporting 1280 x 1024, 32-bit color Storage: 7200 rpm hard drive with SATA interface 	<p><u>64-bit only</u> Windows 7: Professional, Ultimate, Enterprise Windows 8 and 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>
<p>RVG Connect, RVG 5x00/6x00 Sensors or CS1500/CS1600/CS1200 Intraoral Cameras (when use via CS Imaging)</p>	<ul style="list-style-type: none"> Intel Duo Core 2 GHz, 2 GB system RAM 80 GB free disk space DVD drive Ethernet 100/1000 NIC Available high-speed USB 2.0 port 256 MB video card Supporting DirectX 9.0c -For RVG 6500 see Install Guide (SM728) 	<p><u>32 or 64-bit</u> Windows 7: Professional, Ultimate, Enterprise <u>64-bit only</u> Windows 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>
<p>CS 9000 Panoramic/Cephalometric Acquisition Station (when use via CS Imaging)</p>	<ul style="list-style-type: none"> Intel Core2 Duo 2 GHz, 2 GB system RAM 40 GB free disk space (80 GB recommended) DVD drive Two Ethernet 100/1000 NIC's 1024 x 768 32-bit 128 MB video card (256 MB recommended) and supporting monitor 	<p><u>32 or 64-bit</u> Windows 7: Professional, Ultimate, Enterprise <u>64-bit only</u> Windows 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>

<p>8000 Panoramic/Cephalometric Ethernet Acquisition Station (when use via CS Imaging)</p>	<ul style="list-style-type: none"> Pentium 4, 3.2 GHz, 1 GB system RAM 40 GB free disk space (80 GB recommended) DVD drive 1024 x 768 32-bit 128 MB video card (256 MB recommended) and supporting monitor <p>Ethernet version additional requirements</p> <ul style="list-style-type: none"> Two Ethernet 100/1000 NIC's <p>PCI version additional requirements</p> <ul style="list-style-type: none"> One 100/1000 Ethernet NIC Available full height PCI slot and RS232 serial port Windows 32-bit OS 	<p>8000 Ethernet version: <u>32 or 64-bit</u> Windows 7: Professional, Ultimate, Enterprise <u>64-bit only</u> Windows 8 and 8.1: Professional, Enterprise</p> <hr/> <p>8000 PCI version limited to 32-bit OS: Windows 7: Professional, Ultimate, Enterprise</p>
<p>CS 8100 / CS 8100SC / CS 8100SC Access Panoramic / Ceph Acquisition Station (when use via CS Imaging)</p>	<ul style="list-style-type: none"> 2GHz Intel Duo core, 4 GB system RAM (8 GB if CS 8100 SC / CS 8100SC Access) 250 GB Hard drive with 4 GB for software installation Graphics-based board on PCI Express video bus with minimum of 512 MB of video RAM DVD Drive One Ethernet 100/1000 NIC for connecting to network One Gigabit Ethernet for connection for the CS 8100 	<p><u>64-bit only</u> Windows 7: Professional, Ultimate, Enterprise Windows 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>
<p>CR 7400 System Acquisition Station (when use via CS Imaging)</p>	<ul style="list-style-type: none"> Pentium 4, 3.2 GHz, 1 GB system RAM 40 GB free disk space (80 GB recommended) DVD drive Ethernet 100/1000 network card Video card 64 MB (128-256 MB recommended) Available USB 2.0 port Windows 32-bit OS 	<p><u>32 or 64 bit</u> Windows 7: Professional, Ultimate, Enterprise</p>
<p>CS 7600, 7200 System Acquisition Station (when use via CS Imaging)</p>	<ul style="list-style-type: none"> 2 GHz Intel Dual Core, 1 GB system RAM (2 GB recommended) 40 GB free disk space (80 GB recommended) DVD drive Ethernet 100/1000 network card Available USB 2.0 port 256MB nVidia or ATI video card supporting Glide 1.2 	<p><u>64-bit only</u> Windows 8 and 8.1: Professional, Enterprise <u>32 or 64-bit</u> Windows 7: Professional, Ultimate, Enterprise</p>
<p>CS 9000 3D, 9500, 9300 Select, 9300, or 8100 3D Acquisition Station (when use via CS Imaging)</p>	<p>3D Acquisition PC is supplied by Carestream Dental in certain markets. Please check with your sales representative or dealer to verify if it is available in your region</p>	<p>*See Item 8 under Notes and functional requirements for more information on 3D acquisition PC</p>
<p>CS 3500 Acquisition Station</p>	<p>For Laptop</p> <ul style="list-style-type: none"> Intel Core i7 3630QM 2.4Ghz processor Video card nVidia GeForce GTX 660M /Quadro K2100M or better <p>For Desktop</p> <ul style="list-style-type: none"> Intel Quad CPU 3.1Ghz processor (recommended Intel Core i7 3770QM 3.4Ghz) Video card ATI HD 7850 or nVidia GeForce GTX 560Ti or better <ul style="list-style-type: none"> Video card driver must support DirectX 11, OpenGL 4.3, and OpenCL 1.1 RAM 8 GB 80GB of free disk space DVD drive Standard CRT/LCD monitor supporting 1440x900 or higher resolution Available USB 2.0 port 	<p><u>64-bit only</u> Windows 7: Professional, Ultimate, Enterprise Windows 8 and 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>
<p>CS 3600 Acquisition Station</p>	<p>For Laptop</p> <ul style="list-style-type: none"> Intel Core i7-7700HQ, Quad CPU, 2.8GHz Video card NVIDIA GeForce GTX 1050 Ti or Quadro P3000 or similar <p>For Desktop</p> <ul style="list-style-type: none"> Intel Core i7-7700K, Quad CPU, 4.2Ghz Video card NVIDIA GeForce GTX 1050 Ti 	<p>Windows 10 Professional (64 bit)</p>

	<ul style="list-style-type: none"> • Video card driver must support OpenGL 4.3, and OpenCL 1.1 • 16 GB or higher RAM • 80GB of free disk space • DVD drive • Standard CRT/LCD monitor with screen resolution of 1920 x 1080 • Available USB 2.0 high speed port 	
<p style="text-align: center;">CS Restore Design Station</p>	<ul style="list-style-type: none"> • Intel Core 2 Duo 2.4Ghz or better • 4GB or higher RAM • 30MB of free space for installation • There must be free space available for data storage • nVidia or ATI based video card supporting Glide 1.2 with 512MB of dedicated video RAM • DVD drive (DVD writing capability required for exporting to optical media) • An Ethernet connection must be present for 3D models to be retrieved and sent to the milling device 	<p style="text-align: center;"><u>64-bit only</u> Windows 7: Professional, Ultimate, Enterprise Windows 8 and 8.1: Professional, Enterprise Windows 10: Professional, Enterprise</p>
<p style="text-align: center;">CS 3000 Milling Station</p>	<ul style="list-style-type: none"> • Intel Core 2 Duo 2Ghz or better • 2GB or higher RAM • 2GB of free disk space for installation, 50GB or more free for data storage • 1280x1024 minimum screen resolution • DVD drive • 1 Ethernet adapter if the CS 3000 is connected to the LAN, a DHCP server must be present on the LAN for proper functionality • If the CS 3000 is connected directly to the PC, it will need 2 Ethernet adapters and a crossover cable to connect to the CS 3000 	<p style="text-align: center;"><u>64-bit only</u> Windows 7: Professional, Ultimate, Enterprise Windows 8 and 8.1: Professional, Enterprise</p>

Carestream Imaging software is tested for backward compatibility with the following hardware:

Intraoral Sensors

Trophy RVG UI USB
RVG 5x00/6x00

Intraoral Cameras

K1000, CS 1200, CS1500

* A note about minimum system requirements: this document lists the lowest functional specifications for our hardware and software. To assure optimal performance and future upgrade capability more system RAM, higher end graphics cards, and faster CPU's are suggested.

1. Microsoft Word 2000- 2010, Outlook or Outlook Express installed and configured (AOL Communicator not recommended)
2. Installed and up to date Antivirus (some configuration may be needed for optimal performance: Heuristic and real time or office hours scanning disabled)
3. High speed Internet connection for remote support
4. Photo quality printer and or flat bed scanner with transparency adapter recommended
5. Backups and restore system in place: We suggest that you perform a nightly backup on removable media and keep that media in a fireproof safe off-site.
6. A Uninterruptable Power Supply with shutdown software installed at the server machine is recommended.
7. Consult a qualified IT professional about a RAID system installation for your image server
8. Acquisition PCs for large pan/ceph and 3D CBCT units are built for these units and should not have any additional peripherals installed or attached to them. Items include scanners, printers, RVG sensors and intra oral cameras.
9. For optimal performance with the 3D Viewer application, the minimum recommended video card is the nVidia GeForce 450GTS or higher. If this or any other higher quality video board is unable to be used it may be substituted with a 512MB Glide 1.2 compatible video card with reduced performance.
10. One needs to have full administrator rights to install CareStream Software, and be able to provide **administrator credentials/privileges** during interactions with CareStream Support. **Support will NOT** maintain any Administrator Information.

Windows 7, Windows 8 and Windows 10 compatibility notes:

- Windows XP 32 or 64-bit is not supported for any Carestream hardware or software.
- Windows Vista 32 or 64bit is not supported for Carestream Hardware and Imaging pieces of software
- Windows 7, Windows 8 and Windows 10 are not server-class operating systems and must not be used as data servers.
- Dedicated data Servers must not be used as working stations and must not host imaging applications or imaging hardware drivers

- We do not support touch screen desktop from Windows 8
- When comparing minimum system requirements between Carestream hardware, Carestream software or Windows, use the superior hardware specification.
- RVG Synchro Link only works with RVG UI-USB drivers using DIS 6.12.15 and cannot be installed or used in conjunction with any other RVG sensor.
- No Home versions of Microsoft Windows are tested or supported
- Microsoft Small Business Server is not a supported operating system.
- Server and workstations should be kept current with all Windows service packs and critical updates
- The following products are known not to be compatible with Microsoft Windows 7:
 - Hauppauge model 401 and Impact VCB Video Capture Cards
- The following products are known not to be compatible with Microsoft Windows Vista:
 - Trophy ISA cards that control sensors, cameras, or DigiPan cassettes.
 - Hauppauge model 401 and Impact VCB Video Capture Cards
- Microsoft Windows 10 is not currently supported on acquisition computers for Carestream 9300 series, 7200, 7600 and 7400 systems.
- Note that 9500, 8000 PCI, RVG UI, 5000, 6000, STV/1000 acquisition stations WILL NOT have Windows 10 compatibility.
- CS imaging 7 is not supported into the hosted environment (cloud)