

Web Dominator™

Reading Physician Home Reading Station



Web Dominator™ extends the reading of medical imaging exams to your home using a broadband Internet connection. DR Systems patented technology enhances workflow efficiency for viewing cases, interpreting findings, and automatically marking cases as "Read." In addition, you can assemble a montage of key images, add notes, dictate a case, record an audio conclusion and approve the report. Beyond simply viewing, the Web Dominator™ allows you to complete the entire reading process at home.

FEATURES

A complete software solution	Web Dominator is a diagnostic reading software product for a home PC. Reading physicians access images from the host hospital or imaging center confidentially and securely via the Internet by using SSL (Secure Socket Layer) or VPN (Virtual Private Network). Web Dominator automatically receives exams - no waiting for exams to download. Reading physicians specify autoreceive rules based on many criteria, and they can also specify a notification signal (a sound or program to alert them that exams arrived).
Reading physician receiving preferences	Reading physicians can set filters as preferences to specify which exams are automatically received, such as by: <ul style="list-style-type: none"> ■ Exam priority ■ Acquisition site ■ Exam status ■ Date and time of the exam ■ Modality
Reading physician display preferences	Provides selections for physicians to specify display preferences, including: display formats, favorite tools, mouse functions, comparison rules, and more.
Viewing and editing images and reports	Provides a complete set of tools for viewing and annotating images and reports. Reading physicians can: <ul style="list-style-type: none"> ■ Use compare mode to efficiently display images from current and prior studies. ■ Use a 3D cross-reference tool to quickly locate an area of interest. ■ Easily display approved reports for comparison to the current study.
Filtering and sorting for quick access	Provides filtering and sorting for quick access to cases. Reading physicians can display a set of exams that match specific criteria, such as modality, priority, and patient location. Filtering improves efficiency by displaying only exams of interest to the physician.
Summary montage	Allows assembly of a summary montage of key images that support the reading physician's diagnosis. This facilitates interpretation in MRI and CT cases that can contain hundreds of images.
Recording of a voice clip and marking exam read	Allows recording of an audio voice clip that is automatically attached to the case. When the reading physician finishes, the exam status is updated as 'read' in the DR Systems Central Server database.
Instant Reporter	Supports DR Systems Instant Reporter option for initiating new reports, editing existing reports, and approving or revising reports. Using Instant Reporter, you can dictate audio. Templates specific to exam types facilitate initiation of reports.
Reviewing and approving	Allows physicians to review reports quickly after transcription. By using the Report Review tab and Report Review Worklist, physicians can display:

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Additional Features

- Displays a complete electronic requisition of each case, eliminating additional paperwork.
- Displays many types of notes including technologist notes, which eliminates the need to print technologist worksheets. (If required, a technologist worksheet can be scanned.)
- Uses DR Systems patented automated output preferences for each referring physician.
- Creates reports for “imageless” exams (without associated images).
- Accesses archived exams and restores to online status.

System Summary

The DR Systems Web Dominator™ software is available for you to install on your home personal computer. After installing the software program, the Web Dominator is connected to your hospital or imaging center via your broadband-enabled ISP (Internet Service Provider).

PC Configuration Requirements

Your personal computer must meet the following requirements before loading Web Dominator software:

ITEM	REQUIREMENTS
Processor speed	Pentium-class processor, 2.4 GHz or faster. Dual core recommended.
RAM	2 GB (minimum).
Operating System	Windows® XP Professional, 32-bit SP2, or Home version. Windows® XP Professional, 64-bit, SP2 Windows Vista® (Web Dominator Release 8.1 or later).
Available hard drive space	80 GB, for program files and to copy exams to local drive.
Sound card	No minimum requirements. Required for playback of audio conclusion.
Ports	USB port required for microphone if web dictation (Instant Reporter) option is used.
Internet connection speed	500 Kbps or higher via high-speed connection such as DSL, cable modem, or T1.
Microphone	
Standard	For playing or recording an audio voice clip: No minimum requirements.
For Web Dictation	Philips SpeechMike Pro Plus 5276 (USB)
Monitor	Follow ACR Guidelines (see below).
Standard	Minimum requirements: 17"-1280x1024 resolution; 20"-1600x1200 resolution; 24"-1920x1200 resolution. Supports single and multiple monitor systems.
For Web Dictation	Recommended: dual monitors.

Monitor Requirements for Web Dominator

Monitor recommendations are available from the American College of Radiology (ACR), in their published standards related to Teleradiology and Digital Imaging. For details, see the ACR Web site, <http://www.acr.org>. Search for standards, including “ACR Technical Standard for Electronic Practice of Medical Imaging.”

Recommended Protection for Your Personal Computer

ITEM	DESCRIPTION
Virus protection software	A software program that protects against attack by a computer virus. Performance may be adversely affected by some virus protection software. Recommended: Trend Micro.
PC Firewall	A system designed to prevent unauthorized Internet users from accessing private networks connected to the Internet. Recommended: a hardware-based router such as those produced by Linksys® or Netgear™.

Enhanced for Internet Connectivity

Within the hospital or imaging center enterprise, DR Systems PACS operates at 100 Mbps or higher LAN (local area network) speeds. To compensate for lower bandwidth Internet connections, DR Systems has added enhancements to the Web Dominator software to help minimize exam download time.