

IDS7/dx

The high-performance diagnostic workstation for radiologists



Need for speed

IDS7/dx is a comprehensive workstation for radiologists, designed to meet the radiology challenges today and tomorrow.

Today, GB-size stacks are routinely captured in Multi-slice CT scanners and with the introduction of time-varying volumes for functional studies the TB level is approaching fast. Sectra's technology* for retrieving and displaying image data of extreme size eliminates problems encountered in working with stacks containing thousands of slices. On GB networks, IDS7 is capable of visualizing 10,000 slice stacks within a few seconds.



Efficient performance over high-latency networks

Using advanced streaming, pre-loading methods and local cache, IDS7/dx enables efficient remote reading with full functionality from any location. The workstation is designed to handle variations in network quality and perform efficiently over high-latency networks, always allowing for optimized network usage during image distribution.

Results visualizing to the referring physicians

IDS7/dx features an optional fully integrated 3D rendering tool. The easy-to-use 3D functionality facilitates diagnostics by permitting an improved overview of data and results visualizing to the referring physician.



With IDS7/dx workstation, radiologists have the perfect tool for reading large stacks, visualization to referring physicians, and working efficiently in remote reading scenarios.

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Features and benefits

Anywhere, anytime functionality

With IDS7/dx, working remotely is not an issue. If the network capacity allows, full image data is retrieved at once. For low-capacity networks, progressive transfer combined with JPEG2000 compression allows the user to gradually refine the image view by requesting more image data from the server. The uncompressed image can always be accessed. In either scenario, the radiologist can start working with the case immediately.

Local cache improves remote-reading performance

Image download to a local cache improves performance over low-bandwidth networks. This provides the radiologist instant access to the full uncompressed dataset. A complete worklist or only specific examinations can be pre-loaded, enabling the radiologist to work through the worklist without any delays.

The local cache ensures patient integrity – no actual patient information is stored locally, only image data. The user is always on-line to the central database and is thus notified of any changes of data, such as new annotations, between the time of pre-load and the actual reading of the case.

Unsurpassed performance for large datasets

Using IDS7/dx, the radiologist can hang and navigate a stack of 10,000 slices just as quickly as one with 10 slices. Image data is handled as multi-dimensional volumes rather than single slices. IDS7/dx employs unique retrieval and pre-loading algorithms of images from the server or local cache where the data needed at any given time is prioritized.

Advanced viewing of dynamic MRI and CT series

Dynamic MRI and CT series can easily be sorted and displayed based on position or time. Sophisticated synchronization enables advanced review of multi-dimensional stacks, allowing for simultaneous comparison of, for example, different time-to-echo sequences.

A comprehensive tool set

IDS7/dx fully supports the radiologist's diagnostic work. It offers a wide range of powerful tools, including intelligent display protocols, stack navigation tools, MPR/MIP and optional 3D visualization.

Web technology

Through web technology, IDS7/dx enables radiologists to work wherever they want, whenever they want. It uses the http and https web protocols, allowing connection to the server through firewalls and over the Internet. Furthermore, it utilizes .NET click once technology to start the application from within a web browser.

Instant access to information

IDS7/dx enhances radiology efficiency and workflow with instant access to information from both recent and prior examinations. The information window provides a detailed summary of radiology worklists, new patients and prior studies, radiology reports and scanned documents.

Modern intuitive user interface

The IDS7/dx workstation offers radiologists full productivity from day one. It features an intuitive, Windows-based user interface and requires minimal extra training. Radiologists can easily personalize the way examinations are displayed and how system tools are used to meet individual requirements for optimal reading.

* Patents pending

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