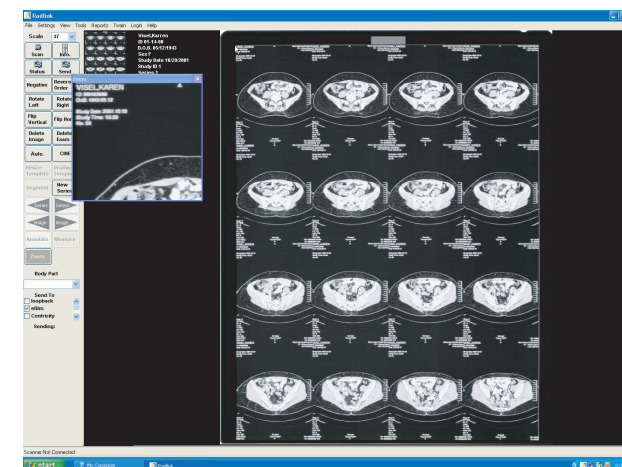# Radlink

Laser Pro™
High-Performance
Laser Film Digitizer

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Just link digitally acquired MR, CT and US Studies, Image Segment will automatically separate your film into its individual slices, present the images as thumbnails and send them as a series to your DICOM viewer.

Laser Accuracy for Diagnostic PACS and Teleradiology Applications

The Radlink Laser Pro™ is a high-performance, small-footprint laser film digitizer designed for primary diagnostic radiology applications that demand high accuracy digital image reproduction. The Laser Pro™ accepts film up to 14" x 52" (335mm x 1320mm), and offers all of the inherent advantages of a laser film digitizer with excellent optical density and precise spatial resolution. The Laser Pro™ provides high-contrast sensitivity over a wide optical density range. This results in the accurate capture of subtle image detail even in dark or overexposed film images.

Consistent Image Quality
The sealed fiber-optic laser technology provides long-term image quality resulting in minimal field service requirements. The LaserPro™ delivers performance, image quality, and reliability at an affordable price.

Resolution and Geometry
Film images are converted to high resolution digital images of up to

3072 x 3850 pixels over a 14" x 17" film. The 16-bit digitization provides precise grayscale accuracy throughout an optical density range of 0.0 to 4.0. Only a laser digitizer can deliver this high degree of precision. The Laser Pro™ is the best choice for high-resolution PACS applications where diagnostic quality is imperative. Only the sealed fiber-optic laser technology of the Laser Pro™ provides "point source illumination". Image geometry is accurate to within + or – one pixel from film corner-to-corner. Point source illumination also maximizes low contrast sensitivity ensuring accurate capture of subtle image features characteristic of chest films.

Film Auto Loader
Radlink's 8-film auto loader (not pictured) maximizes staff productivity. The trouble-free bin-load design virtually eliminates film jams and misfeeds resulting in quick-and-easy operation.

Fast and Simple DICOM Image Acquisition

Our Pro Imaging™ software application for the Laser Pro™ digitizer enables the acquisition of filmed images from your medical enterprise and provides distribution of laser quality images virtually anywhere. Radlink Pro Imaging™ applications are user friendly and intuitive. A workflow-driven GUI that quickly and easily guides the clinician through a three-step process of acquiring, selecting, and sending acquired images to any desired destination. Pro Imaging™ applications also provide a comprehensive suite of DICOM image transmission and image management features.

Modality Worklist
Modality Worklist provides direct access to patient information contained in your HIS/RIS database. By automatically populating the fields in the GUI, operator input errors are virtually eliminated and productivity is greatly enhanced. The clinician can simply access the PACS database and automatically insert the patient information, scan, and send.

Image Segment
Doing comparative analysis between digitally acquired and filmed CT, MR, and US studies is finally a reality. With the Image Segment application, your clinicians can automatically segment a digitized piece of film into its individual images. Images can even be separated by series. The result is true modality emulation. Radiologists can now view in "stack mode" by series, just like direct digital slices.

Image Annotation
Users can annotate images with arrows, text, lines, angles, and measurements. On-screen calipers provide clinicians with a size reference scale, regardless of zoom level.

DICOM Print / CD Burning
Digitized film images and multi-modality studies can be burned to CD. Since the Radlink application uses DICOM Part Ten format, you have confidence that the CD can be easily loaded onto virtually any PACS, Teleradiology, or DICOM image viewing system. Print digital images directly to your DICOM or postscript printer.

System Specifications
Laser Type
Solid State 658nm
Sealed Optic path
Optical Density Range
0.0 to 4.0

Geometry
Perfect geometry to ± one pixel,
X and Y axis over the entire film

Resolution
Up to 3072 sampled pixels per scan line
(125 micron spot size)
16-bit grayscale

Interface
Interface to Host – USB
DICOM-Storage SC
Scan Speeds (14" x 17" film)
1 K Scan Mode – 13 seconds
2 K Scan Mode – 26 seconds
3 K Scan Mode – 39 seconds

Film Size
Up to 14" x 52"
(355mm x 1320mm)

Physical Specifications
Weight
28 lbs.

Dimensions
17.75"w x 12"h x 11.25"d
Power: 100-240 VAC, 47 to 63 Hz, 3.2 Amps Max
Table Top

Integration: Plug and Play
Automated installation
Configurations compliant with DICOM, USB and Windows Standards

Service and Maintenance
Overnight Express Replacement (option available)
Sealed fiber-optic laser design lessens the need for periodic cleanings and calibration
Ready for mobile and remote applications

Film Auto Loader
Integrated design
Ergonomic design
8-bin

Host Specifications
Minimum System Requirements
Pentium 2GHz or equivalent USB Port
40GB hard disk (80GB recommended) 512 MB memory
1024 x 768 Display at 16-bit color Windows XP Operating System

OS support
Windows XP, 2000, 2003

Integration and Configuration
Plug and Play install
User installable system

Automated Wizard
User-friendly automated installation
Host configuration utility with multiple host designation routing

features enables image broadcast communication

Compliance and Compatibility
Windows and USB compliant
DICOM compliance enables simple integration into your PACS or Teleradiological system
Radlink DICOM software facilitates seamless acquisition, distribution and viewing of images with any DICOM compliant viewer

Communications
Image Acquire configurable to any LAN or IP address
Image broadcast supports multiple routing scenarios

Image Spooler
The embedded image spooler speeds workflow with background management of the distribution process and logs status of image transmission

Teleradiology
The Radlink Image Acquire software and LaserPro 16 digitizer provide a DICOM compliant standalone peer-to-peer Teleradiology solution

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