

ImageGrid™ RIS/PACS Appliance

Highlights

- RAID 5 archiving with capacity ranging from 1.5 terabytes (TB) to tens of terabytes.
- Multiple AE Titles on system for archive partitioning
- Manual or highly customizable automated DICOM routing
- No additional licensing for adding modalities and third-party workstations
- Embedded database with a proven ability to handle hundreds of millions of images
- DICOM Encapsulation to attach non-DICOM files (PDF, JPEG, TIFF, etc.) to each study
- Automatic rule-based and HIPAA-compliant storage retention
- Automated pre/post fetching of relevant priors
- Web-based system administration and operator interface
- Optional web-enabled Radiology and Mammography FDA 510(k) Cleared Viewers
- Optional web-enabled Referring Physician Viewer
- Optional web-enabled RIS for workflow optimization
- Optional web-enabled Mammography Tracking Module
- Optional HL7 support for integration with RIS, HIS or EMR
- Optional integration with Sony AIT Tape Library as an option for back-up for compliance with HIPAA requirements
- Optional Modality Worklist (MWL) and Modality Performed Procedure Step (MPPS)

ImageGrid™ RIS/PACS Appliance

Price, Performance and Reliability

The paradigm shift that was needed to significantly lower the cost of a fully integrated RIS/PACS has occurred. ImageGrid™ RIS/PACS Appliance is the most feature-rich, reliable and yet cost-effective multi-modality PACS and RIS for the entire radiology workflow on a single hardware platform. ImageGrid's industry-leading and innovative "appliance" architecture has conquered the complexities of traditional approaches to RIS and PACS. The appliance architecture provides immediate benefits to customers through lower upfront costs as well as ongoing costs associated with IT administration and maintenance contracts. This allows customers to achieve the lowest Total Cost Ownership (TCO) for their RIS/PACS investment, resulting in a faster payback period and higher return on investment.

Web-enabled Viewing

ImageGrid™ offers several FDA 510(k) cleared web-enabled, feature-rich and cost-effective visualization options. ImageGrid Radiology Viewer provides a complete suite image processing and viewing tools and provides access to studies from anywhere on a Local Area Network or Wide Area Network. ImageGrid™ Advanced Radiology Viewer provides additional features such as Hanging Protocols, Series Linking, MIP/MPR and support for up to five monitors. These additional features address key requirements for the reading of CT and MRI studies. In multi-physician environments, radiologist worklist synchronization prevents duplication of effort and improves turnaround time of studies. ImageGrid™ Mammography Viewer is a feature-rich web-enabled application which allows radiologists to have fast diagnostic access to Mammography studies from any workstation equipped with appropriate medical grade displays. Key features of the ImageGrid™ Mammography Viewer include support for multiple concurrent users, opening of multiple studies side by side, automated pre-fetching of relevant priors and dynamic hanging protocols via a customizable workflow design tool. The ImageGrid™ Advanced Radiology Viewer and Mammography Viewer can also be accessed from a single workstation. This capability enables radiologists to read all their studies from one location and from one integrated worklist. The workstation supports Dual Head 5 MP, Dual Head 2 or 3 MP and a fifth monitor for worklist.

Workflow Solution

ImageGrid™ RIS/PACS is a comprehensive workflow solution. ImageGrid™ RIS is a web-enabled application which captures every process from patient registration to final report delivery. An optional HL7 Support interface provides for integration with an existing EMR or HIS.

ImageGrid™ RIS/PACS for Community / Regional Hospitals

ImageGrid™ RIS/PACS is the ideal and most cost-effective solution for a Community / Regional Hospital, either as a replacement RIS/PACS or a first-time implementation. ImageGrid™ RIS/PACS provides all the required features and functionalities at the lowest Total Cost of Ownership (TCO), thereby allowing hospitals to allocate more funds towards purchasing the latest modalities for better patient care. For Community / Regional Hospitals looking at implementing a second or third generation solution, ImageGrid™ RIS/PACS will most likely cost less than the annual maintenance contract of the existing solution.

At many Community / Regional Hospitals, radiologists require the flexibility to read on-site or via remote access. ImageGrid's web-enabled visualization solutions for both Radiology and Mammography along with a fully synchronized worklist, improves radiologist productivity and reduces turnaround time for reading and reporting. Access to studies is optimized through user-driven lossless compression and automated rule-based pre-fetching of relevant priors, which is designed to provide radiologists with all the information needed for efficient diagnosis and reporting.

Many Community / Regional Hospitals may also rely on third-party teleradiology service providers for off-hour reading. ImageGrid's powerful and highly customizable DICOM Routing Engine allows for the automated, efficient and timely routing of studies to any number of destinations. Routing rules can be defined as broadly or as narrowly as desired to optimize workflow and can furthermore be scheduled to occur at the appropriate times.

ImageGrid's RIS functionalities provide for the automation and optimization of a hospital's radiology operations.

The web-enabled application captures the entire workflow from patient registration to final report

delivery. ImageGrid RIS/PACS can be integrated with the hospital's EMR or HIS

via HL7 to further streamline operations and ensure consistency of

patient records.

ImageGrid™ RIS/PACS also provides

hospitals with the ability to easily

back-up their data for compliance with

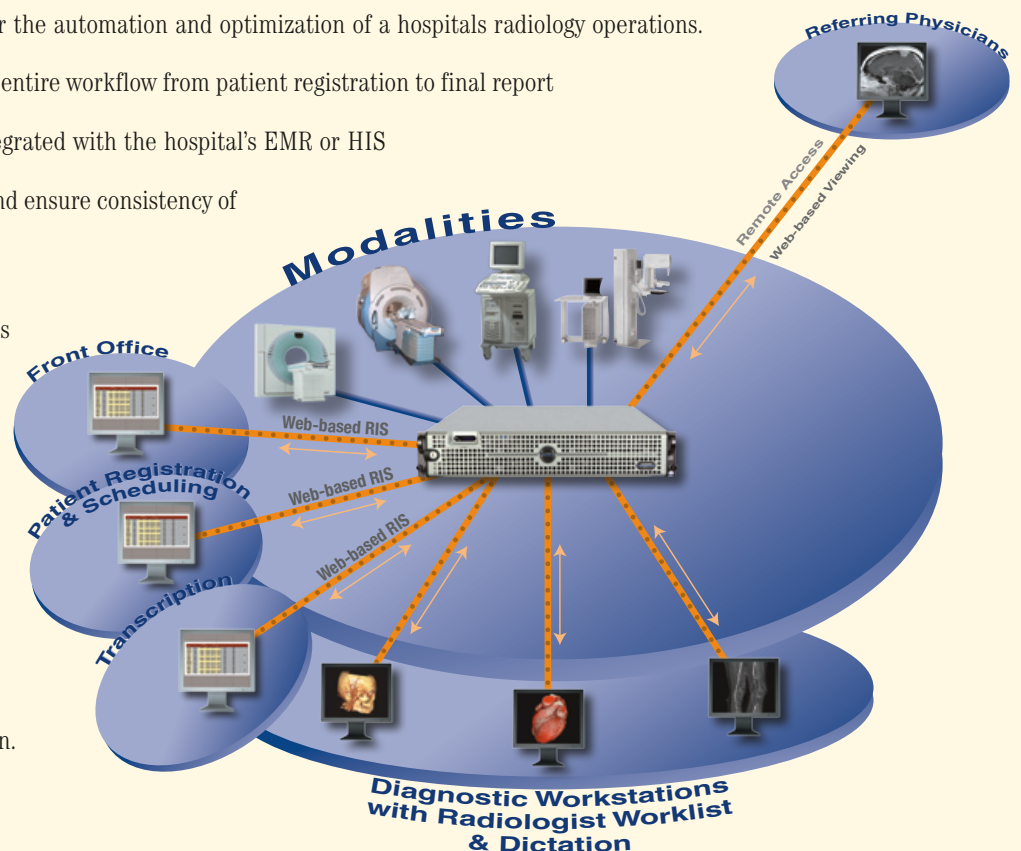
HIPAA. The options for automated data

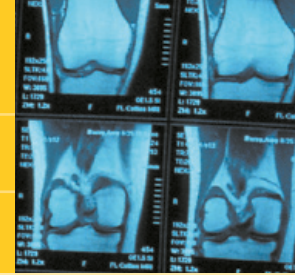
back-up include the automated routing

of all data to an off-site ImageGrid

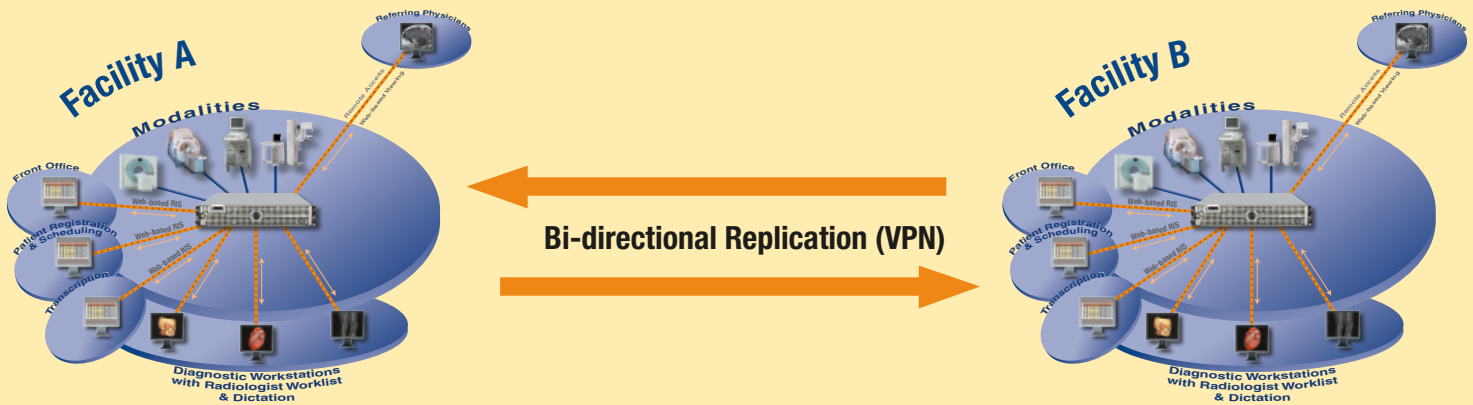
Disaster Recovery RAID 5 Archive or to an

on-site fully integrated tape library solution.





Multi-Location, Multi-Physician and Multi-Modality Diagnostic Imaging Centers



ImageGrid™ RIS/PACS is the ideal and most cost-effective solution for multi-location, multi-physician and multi-modality Diagnostic Imaging Centers and clinics. Any number of modalities at any number of locations can easily send images and patient data to their respective ImageGrid storage/server system for archiving and subsequent routing (push and pull) to/from workstations on the local area network (LAN) or between different locations via Virtual Private Networks (VPN) connectivity. Radiologists have diagnostic viewing capability from anywhere via the various ImageGrid web-enabled viewers. The integrated web-enabled RIS automates the workflow between all locations and enables access to

patient records and data from any of the sites. A bi-directional automated routing policy allows for two ImageGrid systems to perform back-up of all studies efficiently during off-hours to optimize bandwidth utilization between locations. In this scenario, each facility has a full-scale ImageGrid RIS/PACS on-site and ImageGrid's intelligent software manages the flow of data between facilities based on rules and guidelines. A fully integrated optional web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities as well as access to reports for their respective patients.

Single Location Multi-Modality Diagnostic Imaging Centers and Clinics

ImageGrid™ RIS/PACS is the ideal and most cost-effective solution for a single location multi-modality Diagnostic Imaging Centers and clinics. Any number of modalities can easily send images to ImageGrid for archiving and subsequent routing (push and pull) to/from workstations on the network. Radiologists have diagnostic viewing capability from anywhere via the various ImageGrid web-enabled viewers. The integrated web-enabled RIS automates the entire workflow. A fully integrated optional

web-based DICOM viewer can also provide referring physicians with non-diagnostic viewing capabilities. With HIPAA mandating duplicate copies of patient files including imaging studies, a second ImageGrid can be deployed at a secure off-site location and a copy of all studies can be routed to the second system automatically based on rules, policies and guidelines. Alternatively, the optional fully integrated tape library can be deployed on-site and used to back-up all data.



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System Features

Built-in Storage

- 6-drive RAID 5 disk array for head unit
- 15-drive RAID 5 disk array for expansion units
- CD Reader for file transfers

Setup and Configuration

- Complete Web-based user interface for system administration

Network Connection

- Dual NIC

Optional Features

- Web-enabled Radiology Viewer
- Web-enabled Mammography Viewer
- Web-enabled RIS
- Web-enabled Mammography Tracking Module
- Radiology / Mammography "5-Headed" workstation
- Tape Library for data back-up or ILM

3D Viewing

- Compatible with most leading 3D Volume Rendering workstations

CPU & Memory

- Dual Core Intel® Xeon® 5140
- 4GB 667 MHz Dual Ranked DIMMs
- 1333 Mhz front side bus
- 4MB of level-2 cache

Warranty

- 1 Year Hardware with Next Business Day on-site (US and in over 100 countries)
- 1 Year Software telephone/email support including updates
- Hardware and Software Extended Service programs are available

Specifications

Storage Capacities

- 1.5 TB Raw Capacity to tens of terabytes in a RAID 5 configuration

Agency Certifications

- BSMI (Taiwan), CCC (China), CAN/CSA, CSAus, FCC (U.S.), CE Mark, C-Tick (Australia/New Zealand), ICES (Canada), MIC (Korea), SABS (South Africa), VCCI (Japan), UL 60950-1, ISO 9001

Chassis

- 2U Rack Mountable Head Unit
 - 29.31" (74.4 cm) D x 17.5" (44.43 cm) W x 3.4" (8.64 cm) H with bezel attached
 - Rack Weight: 50.71 lbs (23 Kg) Maximum configuration
- 3U Rack Mountable Expansion Units
 - 18.9" (48.01 cm) D x 17.57" (44.63 cm) W x 5.16" (13.11 cm) H with bezel attached
 - Rack Weight: 78 lbs (35.37 Kg) Maximum configuration

Power

- Power Rating: 100-240 VAC (actual 90-264 V), 47-63 Hz, auto-sensing
- Input Current: 7.2A (RMS)/100 VAC, 3.6A (RMS)/200VAC
- Wattage: 488 W Maximum continuous; 550 W peak

Heat Dissipation

- 1440 BTU/hr (maximum)

Operating Environment

- 50°F to 95°F (10°C to 35°C)
- 20% to 80% humidity (non-condensing)
- Altitude: -50 ft to 10,000 ft (-16m to 3,048m)

Non-operating Environment

- -40°F to 149°F (-10°C to 60°C)
- 5% to 95% humidity (non-condensing)
- Altitude: -50 ft to 35,000 ft (-16m to 10,600m)