



## ImageGrid™

### Highlights

- RAID archiving with capacity ranging from 1 terabytes (TB) to hundreds of terabytes.
- Multiple AE Titles on system for archive partitioning
- Supports DICOM-RT Objects
- Manual and 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 (PDFs, JPEGs, TIFFs etc.) to each study
- Study Modification Tool with patient merge / split capability
- Automatic rule-based and HIPAA-compliant storage retention
- Automated pre/post fetching of relevant priors
- Web-based system administration and operator interface
- Optional FDA 510(k) Cleared web-enabled Radiology, Mammography and RT 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 integrated Tape Library with ImageGrid Data Back-up Software for compliance with HIPAA requirements
- Optional Modality Worklist (MWL) and Modality Performed Procedure Step (MPPS)
- Web-based system administration and operator interface

### ImageGrid™: Image Management Appliance

#### Price, Performance and Reliability

The paradigm shift that was needed to significantly lower the cost of a fully integrated Image Management and Workflow Optimization solution has occurred. ImageGrid™ is the most feature-rich, reliable and yet cost-effective multi-modality Image Management and Workflow Optimization solution 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 Image Management and Workflow Optimization solution 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™ 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™ for Community / Regional Hospitals

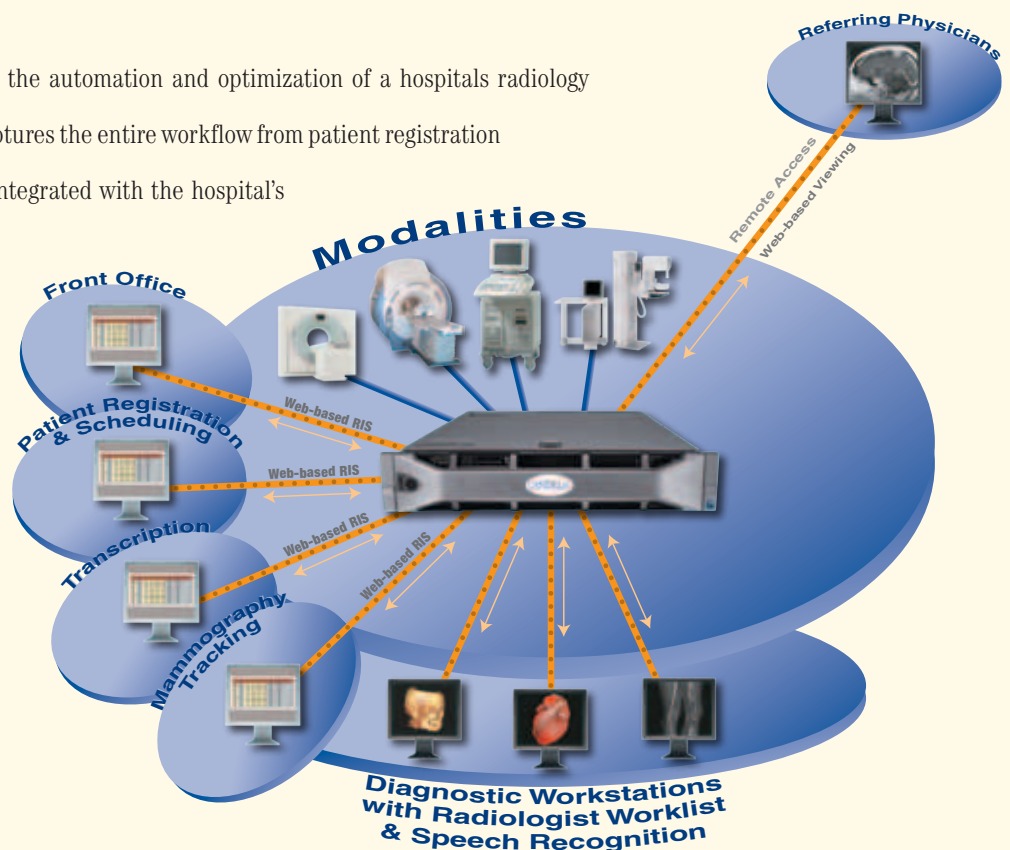
ImageGrid™ Image Management and Workflow Optimization solution is the ideal and most cost-effective solution for a Community / Regional Hospital, either as a replacement RIS/PACS or a first-time implementation. ImageGrid™ provides all the required features and functionalities at the lowest Total Cost 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™ 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.

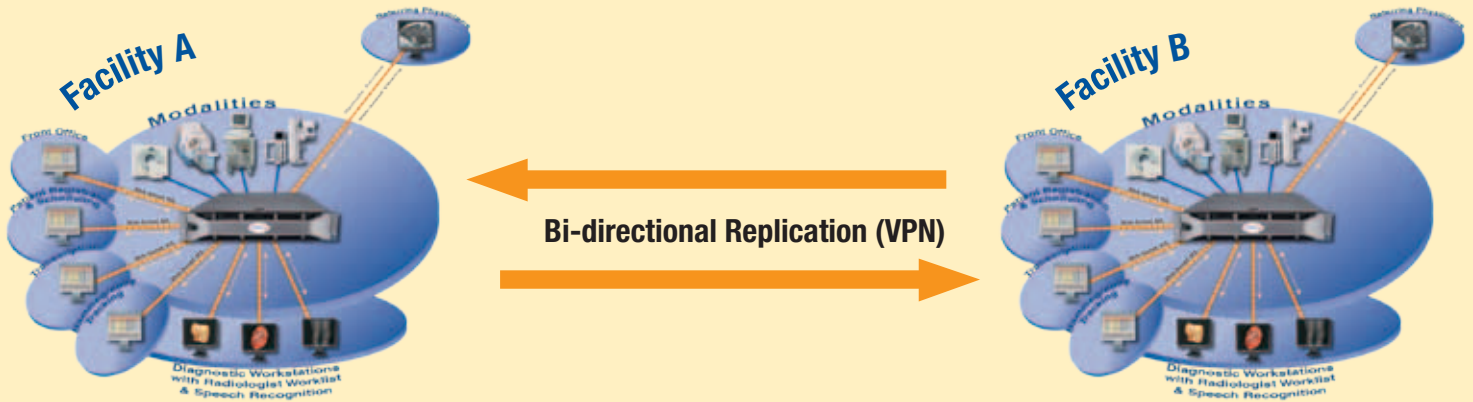
Many Community / Regional Hospitals may also rely on third-party teleradiology service providers for off-hour reading. ImageGrid's powerful and highly customizable DICOM Routing Engine allows for the automated, efficient and timely routing of studies to any number of destinations. Routing rules can be 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 can be integrated with the hospital's EMR or HIS via HL7 to further streamline operations and ensure consistency of patient records.

ImageGrid™ 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 Archive or to an on-site fully integrated tape library solution.



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



ImageGrid™ 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 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™ 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.



# ImageGrid™ Image Management Appliance Specifications

## System Features

### Built-in Storage

- 8-drive RAID disk array for head unit
- 15-drive RAID disk array for expansion units

### 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 Referring Physician Viewer
- Web-enabled RIS
- Web-enabled Mammography Tracking Module
- HL7 Support for integration with 3rd party RIS, HIS or EMR

### 3D Viewing

- Compatible with most leading 3D Volume Rendering workstation

### CPU & Memory

- Dual Core Intel® Xeon®
- 4GB (2x2GB), 1066 MHz Dual Ranked UDIMMs

### Warranty

- 1 Years Hardware with Next Business Day on-site (US and in over 100 countries)
- 1 Year Software telephone/e-mail support including updates
- Hardware and Software Extended Service programs
- Optional 4-Hour On-Site Hardware Support 24/7/365 in the US and over 100 countries

## Specifications

### Storage Capacities

- 2 TB Raw to hundreds of terabytes in a RAID configurations

### Agency Certifications

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

### Chassis

- 2U Rack Mountable Head Unit
  - 26.80" (68.07 cm) D x 17.44" (44.31 cm) W x 3.4" (8.64 cm) H with bezel attached
  - Rack Weight: 57.54 lbs (26.1 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: 90-264 VAC, autoranging, 47 - 63 Hz
- Wattage: 870 W High Output; 570 W Energy Smart

### Heat Dissipation

- Heat Dissipation: 2968.6 BTU/hr maximum High Output and 1944.9 BTU/hr maximum Energy Smart

### 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)



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