Digital Breast Tomosynthesis Quality Assessment

The Phantom Laboratory, manufacturer of the Catphan® phantom, has developed an innovative phantom for image quality assessment of digital breast tomosynthesis systems. The semicircular phantom, measuring 4.2 cm in depth, includes objects for determination of low contrast CNR, spacing at the simulated chest wall, NPS via uniformity area, slice sensitivity profile and depth of focus of image volume and spatial resolution. The phantom design enables accurate automated software analysis for uniform objective performance measurements. Image Owl, a world leader in cloud-based phantom image processing, will offer an automated analysis service for the phantom.

Reading Environment Consulting

RedRick Technologies, a provider of custom engineered ergonomic reading workstations and monitor mounting solutions, announces its new reading environment consulting service. The service is intended to help clients maximize department productivity, workflow and space utilization, while ensuring reading environments support the operational goals of both the radiology and the healthcare enterprises. Healthcare delivery is evolving and every radiology department has unique needs and constraints. RedRick’s consulting services ensure that space design, environmental control, lighting, acoustics and workstations all work together to support the needs of the department.

Fluoroscopic Imaging Toolkit

Stallion Technologies introduces the xFITE™, a toolkit that allows OEMs, VARs, and other manufacturers to accelerate their development of full-function fluoroscopic/radiographic systems for radiography and fluoroscopy, angiographic and cardiac applications. Windows-based xFIT consists of software libraries that work with off-the-shelf PC hardware and permit users to add their own graphical user interface. xFIT supports DICOM and provides real-time functions such as motion-compensated noise reduction, roadmapping, subtraction/re-registration, maximum opacification, etc. To boost clinical productivity, pristine image quality is critical to enabling fast, accurate diagnosis. Only the multi-modality Barco Coronis Fusion 6MP LED offers proven performance based on years of experience. Patented technologies, optimized glass and an intelligent system of sensors work together to increase clinical productivity, making it the industry’s best-in-class six megapixel display.

Visit Barco at booth 3306 and experience the difference

* Researchers from Montefiore Medical Center found that the Coronis Fusion 6MP diagnostic display increases productivity and reduces eye strain.
Lung Cancer Screening Information System

Patient tracking & radiologist reporting for CT lung cancer screening

Booth #7210 (North Hall) LungView.com
quantitative analysis, high-speed acquisition/storage and patient data management. xPIT can be customized to work with users’ proprietary hardware and choice of flat-panel and camera detectors.

**Enhance Portable Chest X-ray Quality**

Riverain Technologies introduces ClearRead Confirm as the newest FDA-approved product in the ClearRead Suite. ClearRead Confirm enhances portable chest X-ray image quality while simultaneously improving the conspicuity of catheters and tubes. Based on reduced image manipulation requirements, reading time has proven to be reduced by more than 19 percent in multi-reader, multi-case reader studies. ClearRead Confirm produces a bone-suppressed, enhanced secondary image and/or an enhanced posterior-anterior image. The enhanced ClearRead Confirm image integrates seamlessly into existing workflows and is also available as a third-party library to select partners.

**High-frequency X-ray Generator**

Quantum’s Q-VISION high-frequency series radiographic generators provide superior imaging with power levels up to 80 kW and outputs of up to 150 kVp. Features include a HD+ LED-backlit touchscreen monitor, intuitive multi-language ability, a built-in web cam and sequencing of pre-packaged procedures. It includes an enhanced customizable positioning guide with pictures and detailed instructions on how to position the patient, breathing instructions and what to look for in the resulting image. With just the touch of the help button on the screen, users can easily access a wide variety of easy-to-use remote support services and information via the built-in web browser.

**Standards-based Referral Management**

Forcare introduces standards-based radiology referral management and image sharing solutions that connect radiology departments with their referring network. Referring physicians can request radiology procedures online and link relevant clinical information to the referral. Automated notifications alert the radiology department that a referral is pending. While referral information is forwarded for scheduling into the RIS, the referring physician is notified that the referral has been accepted. Both the report and images resulting from the requested procedure are made available online, providing the referring physician access to the results in the context of the referral request.

**PACS Mammography Plug-in**

Delphinus Medical Technologies has developed SoftVue™, a new generation of ultrasound innovation designed to address the entire lifecycle of breast cancer detection and diagnosis. SoftVue simultaneously collects and reconstructs multiple sound properties, analyzing tissue characteristics of the entire breast. SoftVue is ultrasound tomography, presenting coronal cross sections from chest wall to nipple. The breast is immersed in warm water for a short scan time, around a minute, requiring no compression and no radiation. With automated image acquisition, it reduces variability that can occur with traditional ultrasound. SoftVue is currently pending FDA clearance and is not yet commercially available.

**3D Software for Treatment Planning with MR**

**Quality Medical Image Processing Consulting Services**

The information for these new products and services was provided by the manufacturers. Inclusion in this publication should not be construed as a product endorsement by RSNA.
Maximized Ultrasound Scanning

eHD is the culmination of a complete re-engineering process through the probe, image capture, processing and display interfaces of Esaote’s MyLab™ ultrasound systems. eHD represents Esaote’s attention to diagnostic value, optimizing all aspects of the chain a signal travels through, starting from the echo generated by the patient’s body up to the image display interface. Systems optimized with Esaote’s eHD Technology are designed to deliver a full range of clinical solutions, including advanced diagnosis, interventional and follow-up procedures.

Cone Beam CT for Head and Neck

SORDEX introduces the CBCT system with selectable fields of view, starting from 50 mm x 50 mm up to 240 mm x 165 mm, suitable for wide application areas in maxillofacial and ENT radiology. Excellent diagnostic performance provides continuity of care in point-of-care environments. When CT results are available right away in the same facility, there is no delay in managing the case and starting treatment. Patients receive considerably less dose than with medical CT. The system comes with a complete software solution and is compatible with leading surgical navigation systems.

Technical Exhibition Hours

Hall A (South Building), Hall B (North Building)
Sunday, Dec. 1 – Wednesday, Dec. 4
10:00 a.m. to 5:00 p.m.
Thursday, Dec. 5
10:00 a.m. to 2:00 p.m.

Advanced Business Reporting Tool

Avreo introduces its Analysis Reporting module. With this advanced business reporting tool, users can identify trends allowing the organization to respond with actionable changes. Users can design comprehensive reports tailored to the needs of their healthcare organization, then publish reports to healthcare professionals via portal assignments to provide read-only or configurable access to specific reports. Avreo interWORKS offers truly unified RIS, PACS and certified ambulatory and inpatient EHR within a single application, single database solution.

Speech Recognition Software

IDS-AbbaDox’s Voice2Dox 3.0 is a radiology speech recognition platform. The upgrade features institutional control of templates and routines, embedded key images and a real-time performance tracker. The new template manager establishes reporting uniformity with options for non-editable template sections and mandatory terminology and phrases. Radiologists enjoy greater flexibility for sharing routines, including a new Twitter-like “follow” feature granting access to all templates created or edited by a mentor or department head. Voice2Dox 3.0 also allows radiologists to embed portions of key images directly from the PACS viewer into the diagnostic report.

Web-native Collaborative Workflow

Medicalis makes life simpler and easier for radiologists with its industry leading web-native collaborative workflow solutions. Medicalis helps to facilitate best practice quality care standards and streamline enterprise workflow processes. It’s an enterprise-capable IT solution that processes millions of studies annually and allows radiologists to collaborate internally and with enterprise-ordering providers. Maximize radiologist productivity by reducing waste in administrative activities and improve the quality of final reports.

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Visit the RSNA Store in Lakeside Center for your demo and to purchase annual meeting refresher course CDs.
Assess Density from Mammography and Tomosynthesis

Matakina introduces new features of its globally used, multi-vendor VolparaDensity breast density assessment software, which is used by radiologists to objectively assess density from both digital mammography and tomosynthesis images. VolparaAnalytics utilizes volumetric information from VolparaDensity to provide quality assurance metrics to help monitor critical parts of the breast screening process including mammography, tomosynthesis and technologist performance. VolparaDose, pending FDA review, moves away from manufacturer-biased dose estimates to use a standard mean glandular dose algorithm along with the patient-specific volumetric breast density to give a better estimate of the dose absorbed by the specific breast.

Virtual Rotary Encoder

The Multi-Touch Control Wheel by Grayhill combines a touchpad with a circular groove that functions as a virtual rotary encoder. Gestures are read on the 70 mm touchpad and running a finger around the groove produces incremental encoder output. North, south, east and west points in the groove function as a virtual joystick, allowing the user to navigate through on-screen menus. The entire device is sealed against liquids and dirt, making it easy to clean and disinfect.

Enhanced Productivity with Modernized Reporting

A modernized reporting system that enhances imaging centers’ productivity, InteleRIS™ streamlines operations by improving collaboration, reducing paperwork, eliminating duplicate entry and providing higher quality imaging results to referring physicians. InteleRIS promotes the efficient use of personnel, resources and equipment, helping to improve report turnaround times and protect the bottom line. InteleRIS will offer a fully integrated mammography reporting module, providing full compliance with MQSA certification requirements.

Decision Support for Patient Care, Contrast Management

Bracco Diagnostics introduces NEXO™, the advanced server-based decision support system for patient care and contrast management. NEXO is a seamless injection data reporting network that simplifies contrast management for everyone. With NEXO, physicians, technologists and administrators can manage data from contrast procedures with timely, accurate and documented information that is available systemwide. Not all products are available in all global markets; please refer to the local distributor or agent.

Diagnostic LED Backlit Displays

Canvys, a division of Richardson Electronics, announces the Image Systems XLED series of diagnostic LED backlit displays. With LED backlights, this series features higher brightness, front and back luminance sensors and lower power consumption. The product family includes 2, 3 and 6 mega pixel color and 2, 3 and 5 mega pixel grayscale displays. In addition, the 6 mega pixel features dual front sensors for more accurate luminance control. The improved performance and power efficiency allows for a longer lifespan and a higher return on investment. In addition, the displays contain no hazardous materials, making them environmentally friendly and ideal for recycling.

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**Full Exhibitor Listing**

To see complete company profiles and product information, visit RSNA2013.RSNA.org/exhibitor.

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Secure Sharing of Images, Documents

DR Systems’ eMix Instant Sender expands the current capabilities of the eMix product by offering a web-based uploading service that allows anyone to securely share images and documents via the cloud. No software or hardware installation is required and Instant Sender can be initialized from any web browser. When a package arrives, the images or documents can be immediately viewed through the eMix zero-footprint DICOM viewer and downloaded or stored locally. Best of all, this service is free to anyone sending images to eMix subscribers.

View and Setup Technique Parameters from Tube-side

TechVision by Quantum allows technologists to easily view and set up all technique parameters and access setup functions right from the tube-side, just as if they were at the generator’s operator control panel. TechVision provides a digital image preview in less than three seconds directly at the generator’s operator control panel.

Mobile Clinical Decision Support

Medicalis extends its industry-leading clinical decision support solution by enabling radiology groups or hospitals to provide access to subscribed content via mobile devices. Mobile access allows referring providers to easily leverage national and local guidelines to determine how to best utilize imaging in patient care. Providers can simply connect to an available Internet-based Medicalis content server with their iOS device and easily access the knowledge of national and local imaging experts. It’s a fast and simple way to deliver clinical decision support within the enterprise or community.

DR Upgrade or Fully Integrated DR System

Quantum’s DRive is a value-priced system that is available as a DR upgrade package or a fully integrated DR system with a market-leading quantum X-ray generator. DRive offers a choice of cesium or gadolinium detectors within fixed, tethered and/or wireless panels. This fully featured system includes a 24” widescreen monitor, three-second image preview, 100,000 image capacity, repeat-reject, exposure index, deviation index, stitching, remote service access and DICOM worklist procedure mapping. Users can also configure the DRive console to their specific specialty, such as sports medicine, spine clinics or even veterinary use. This product is available exclusively from Quantum Dealer Network Partners.

Reduce Scan Times, Power Consumption and Costs

eXP Technology pushes existing commercial MRI systems even faster with more accurate reconstruction and improved scan times. Scan times are dramatically reduced as are overall power consumption and running costs. To increase the speed of image acquisition and reconstruction, eXP combines powerful GPU hardware with advanced software, producing superior quality images with substantially reduced scan times. For example, fast spin echo (FSE) sequences can be obtained up to 40 percent faster with eXP Technology. eXP Technology is now available on Esatoe dedicated MRI systems.

Small Footprint Sensor

Radcal introduces the new Gold+ and Accu-Gold+ multi-sensor utilizing improved stacked sensor technology. Radcal offers the smallest footprint sensor on the market today. Addressing all modalities, the AGMS-D+ for diagnostic, AGMS-M+ for mammography and the Dual AGMS-DM+ for both diagnostic and mammography, complement the AGDMM+ Digitalizer to offer the true interchangeableability of sensors and the most advanced system for all quality assurance testing needs. Supplied with the Accu-Gold Software and utilizing the power of a laptop, the Accu-Gold+ System will be the new market leader.

Online Clinical Information Resource

ClinicalKey, the world’s first clinical insight engine, is an online clinical information resource that provides radiologists with access to Elsevier’s esteemed radiology references at the point of care, for dependable guidance on every aspect of the field. Elsevier’s authors span every subspecialty in the field to bring readers the latest knowledge from the world’s most respected authorities, designed to help clinicians find the most relevant clinical answers fast. Content includes more than 700 textbooks and 400 top medical journals, providing the most current clinically relevant evidence-based answers, expert commentary, MEDLINE abstracts and select third-party journals.

Quantify MR Image Distortion in 3D

The patent pending QUASAR MRID® system by Modus Medical Devices is a cost-effective tool for quantifying distortion in MR images. The system includes phantom and automated image analysis software. QUASAR MRID® is unlike other MR distortion analysis systems in that it fully samples the entire field of view, not just a few planes. The phantom is lightweight for its size at only 15 kilograms, even though it is 35 cm in diameter and 30 cm long. The system is used for quality assurance of MR image guidance and diagnostic MR imaging.

Full Netowrk Partners.

MR Imaging Coils

ScanMed presents its latest line of game-changing coils. The Blanket Coil is an MR imaging coil contained within a water-resistant case, featuring a soft and cleanable cover. Consistent and comfortable patient positioning allows the two-element Orbit Coil and Target System to acquire ultra-high resolution images of the orbits and associated structures. The PRODIGE Pelvic Coil is a wearable, stain-resistant and fluid-proof coil designed for visualizing the prostate and reproductive organs while allowing for biopsies. The Kinematic Shoulder Coil is a flexible neoprene coil that conforms to the shoulder, providing impeccable imaging across 180 degrees of joint rotation. The coils are 510 (k) marketing clearance pending.

Fully Enclosed Weight-bearing Protector

RC Imaging has launched the first fully enclosed weight-bearing product in the industry. It features tool-less access for easy panel removal and is fully enclosed to help keep the panel clean and protected. It provides added protection in a barn or office exam room floor and has added shock protecting foam pads and non-skid rubber feet. The enclosed unit is easily moved with one hand and comes with a more comfortable handle. It has an 800-pound max load and is available in 20 x 25 cm, 35 x 43 cm and 43 x 43 cm sizes. The protector is perfect for equine and podiatry.

LED Displays with Mobile Calibration App

Double Black Imaging introduces a full line of auto-calibrating LED displays. The line includes a 6 mega pixel color, 10 mega pixel monochrome, 2 mega pixel monochrome and color, 3 mega pixel monochrome and color and a 5 mega pixel monochrome LED. The X-CAL web-based calibration software suite allows for remote DICOM calibration and conformance, luminance adjustment, reporting, MQSA testing and documentation, email alerting, scheduling and enterprise management. X-CAL mobile also allows for complete enterprise control on iPhone, iPad and Android devices. The X-CAL proprietary display system calibration software can bundle with wide LCD Systems, graphic controllers and DICONetrix PACS performance monitoring software.

Neonatal MR Imaging

The Neona MRI System by Time Medical Systems is an industry-first MR imaging system dedicated to neonatal patients. It includes a high-field superconducting magnet that accommodates a co-designed patient incubator, providing the required capabilities for monitoring and supporting critical neonatal patients during their MR imaging examinations and subsequent observations. The compact Neona MRI System is appropriate for any location within the NICU.

How can new approaches to fighting disease behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have targeted therapies are the way to go.
How can new approaches to fighting diseases cope with transforming care?

Actually, we all want to be healthy. Therefore, early detection of diseases, more accurate diagnoses and, as a result, more targeted therapies are the way to go. That’s the reasoning behind our range of value-based innovations that have been developed to support you in fighting diseases.

Additionally, these innovations help to improve patient satisfaction and clinical outcomes in a transforming care system.

Visit us at Booth #1934, South Building Hall A.

Answers for life.
I ❤️ MY RADIOLOGIST

Expand Patient Centric Healthcare
Meaningful Use Compliance and Imaging 3.0

For Patients:
Pre-Registration
Report and Lay Letter Delivery
Secure messaging
Education

For Referrers:
Transition of Care Documents
Report Delivery

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