Technology news:

New products

DRF – comprehensive 2-in-1 room solution for digital radiography and fluoroscopy

The new DRF solution provides high-quality radiography and fluoroscopy applications in just one room. The combination of the Philips high-end digital vertical stand with the EasyDiagnost Eleva merges two worlds, providing the flexibility needed for optimum room utilization.

The digital vertical stand incorporates the same detector as the Philips DigitalDiagnost, providing a large image area of 43 cm x 43 cm for maximum patient coverage. High detail resolution gives insight into fine bone structures, adding to the overall image quality. A height adjustable trolley with floating tabletop and intelligent steering concept is optionally available.

Filmless digital imaging ensures efficient workflow for high patient throughput. The image acquired on the digital vertical stand are processed with UNIQUE image processing software. UNIQUE combines a large dynamic range with detail contrast, offering a significant improvement in image quality. The parameters can be individually adapted to specific requirements.

The EasyDiagnost Eleva fluoroscopy unit covers a wide range of digital fluoroscopy applications, including gastro-intestinal and vascular contrast studies. The built-in DoseWise concept ensures excellent image quality at low dose, while Grid Controlled Fluoroscopy (GCF) and Intelligent Exposure (IQX) ensure that images are right the first time.

Essenta DR - Go filmless the easy way

The new digital radiography system Essenta DR is an all-you-need system that is especially developed for moderate budgets.

Equipped with the same high-end detector as DigitalDiagnost, the well-known Eleva workspot and the UNIQUE image processing there is no compromise in achieving excellent clinical results.

Most common applications in both vertical and horizontal positions including cross-table...
lateral examinations are possible. Thanks to its compact size this floor mounted U-arm geometry requires only a small amount of space.

Essenta DR is a very versatile digital system for environments with a medium patient load. Just right for facilities going digital as well as for clinics looking for a flexible back-up system.

3,000th Brilliance CT system

In June 2007, Philips Medical Systems shipped the 3,000th Brilliance CT system. Since the Brilliance CT line was introduced three years ago, the systems have been constantly refined with technology solutions to expand capabilities and ease workflow.

*Step & shoot*
Philips Step & Shoot low-dose cardiac imaging represents a new scanning mode that provides high-quality images of the coronary arteries and heart anatomy at low dose levels. Step & Shoot has been shown to achieve an 80% dose reduction when compared with retrospective spiral CT angiography techniques*.

*Comprehensive Cardiac Analysis*
Helping hospitals integrate CT directly with interventional cardiovascular procedures, Philips Brilliance CT’s Comprehensive Cardiac Analysis (CCA) package uses 3D CT segmentation of the coronary tree to select and visualize the best 2D C-arm projections for use in planning the procedures.

*Electrophysiology planning*
A novel electrophysiology (EP) planning application paves the way for assessment of the pulmonary vein, left atrial and appendage anatomy, enabling electrophysiologists to reduce procedure times and radiation exposure by quickly identifying anatomy that may complicate the EP procedure.

*Advanced oncology visualization and treatment protocols*
Philips’ Brilliance CT products offer a comprehensive package of advanced oncology visualization and treatment protocols, including the Brilliance Virtual Colonoscopy package and the Pulmonary Toolkit for visualizing multiple lung phases with minimum motion artifacts.

*Brilliance Everywhere*
The optional Brilliance Everywhere solution offers full viewing and 3D volumetric CT imaging as well as cardiac, vascular, stroke, colon and lung applications at “any chair of your choice” such as an iSite workstation, Extended Brilliance Workspace CT workstation or even a home PC. It can also be used to connect a radiology practice to referring physicians in any area - pulmonology, cardiology, neurology or gastroenterology.

*Data by courtesy of Wisconsin Heart Hospital.*
BrightView SPECT system

The BrightView SPECT system is a compact nuclear medicine camera offering exceptional image quality in a fast, compact and easy-to-use package. Provided with a wide range of innovations to help healthcare providers manage patient care, BrightView SPECT is a fully featured variable angle camera differentiated by exclusive Philips CloseUp technologies, enabling higher resolution through smarter software, new electronics and minimal distance between detector and patient.

BrightView SPECT addresses current clinical needs, while also supporting future healthcare advancements. The scanner is designed to meet the growing diversity in patient size and its open gantry provides a positive patient experience without compromising system stability. The system’s customizable yet automated acquisition capabilities aid in streamlining workflow and leveraging future innovations in molecular imaging. These capabilities include advanced robotics as well as the ability to obtain multiple acquisition protocols simultaneously.

GEMINI TF

The GEMINI TF (time-of-flight) PET/CT system is now available in a 64-channel CT configuration, representing an innovative leap forward in PET/CT hybrid scanners. The system extracts the true benefits of time-of-flight imaging by enhancing small lesion detectability, shortening scan times, reducing patient dose and delivering exceptional image quality in oncology, cardiology, neurology and molecular imaging.

Raising effective image sensitivity by more than two times over conventional PET, the GEMINI TF shortens image acquisition to less than 10 minutes for a whole-body PET scan, even for larger patients who previously needed much longer scan times. Consistent with all GEMINI PET/CT systems, GEMINI TF also features Philips’ patented OpenView gantry design, allowing for increased patient comfort.

Also now available on select GEMINI configurations is a PET/CT Pulmonary Toolkit solution that provides a unique combination of respiratory correlated imaging and intuitive patient feedback.