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DIGITAL SOLUTIONS FOR ORTHOPEDICS

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Philips Medical Systems' (Bothell, WA), innovative imaging technology and image processing solutions make it easy for orthopedic surgeons to move into the age of digital radiography, leading to higher productivity and lower costs. Philips advanced digital radiography solutions simplify workflow, delivering a completely integrated image and information management system that eliminates the need for film.

"With our digital radiography family of products, Philips is creating a world in which the orthopedic surgeon can become much more precise in providing orthopedic health care," says Scott Burkhart, Director, General X-ray, Philips Medical Systems.

Why Go Digital?

Philips Medical's focus is on developing solutions for clinical application in orthopedic diagnosis and treatment. The latest example is the Philips **ViewForum Surgical Workstation**, an environment for multimodality viewing and image processing, that frees physicians from the limitations of the lightbox. With its easy-to-use, intelligent user interface, the ViewForum workstation aids in diagnosis and treatment by enabling the physician to view, manipulate and compare images from all supported modalities, including CT, MR, PET and any digital radiographic image.

Available in a desktop model or integrated into the Philips BV family of mobile surgical C-arms, ViewForum gives surgeons the ability to look at any combination of image views, view multiple examinations simultaneously (pre/post contrast scans, for example), and have specific "presets" for views according to individual surgeon preferences.

"By making ViewForum available in its C-arms, Philips is empowering surgeons," adds Mr. Burkhart. "Now the surgeon can look at real-time fluoroscopy in the operating theater and compare it with previous MRI, CT, and fluoroscopy images that he or she can manipulate."

The clinical benefits of Philips digital solutions are not limited to the operating room, however. Philips state-of-the-art digital radiography imaging system, the **Digital-Diagnost**, combines the leading direct digital detector with one of the most advanced image processing capabilities, excellent ergonomics, outstanding image quality and a seamless workflow. The Philips DigitalDiagnost also offers full integration with Philips Computed Radiography (PCR), a solution that no other manufacturer can offer. Scheduling,

verification and common post processing for DR (digital radiography) and CR can now be accomplished at a single acquisition console. In addition, the DigitalDiagnost can be equipped with **UNIQUE**, Philips exclusive multi-resolution image processing software for outstanding radiographic image quality and superb detail visibility.

When the superb image quality delivered by the Philips digital radiography solutions are combined with the capabilities of the ViewForum Surgery Workstation, the result is improved preoperative planning ability for the orthopedic surgeon. The ability to manipulate and enhance digital images can provide more precise measurements for prosthetic implants, which can translate into better patient care and better patient management over time. In addition, the exposure of the digital image can be manipulated to bring out soft tissue or trabecular detail and offer the surgeon increased speed and control in manipulating decision-critical images.

Philips is working with the *Hospital for Special Surgery* (New York, NY), to develop protocols, training materials, and appropriate use for implementation for Computed Radiography. Philips is also teaming with Zimmer, DePuy, Biomet and Medtronic to enhance digital imaging for surgical navigation and develop solutions for clinical practice.



Philips digital systems have application in the hospital, the orthopedic clinic, and in the orthopedic surgeon's office. Digital radiography can cut the time required for traditional radiography in half. For example, six X-ray rooms can be reduced to three and still handle the patient flow. Depending upon patient numbers, system costs could be recouped in as little as one year.

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For more information concerning Philips Medical Systems call 1-800-229-6417 or visit the company's Web site at www.medical.philips.com. To receive a complimentary copy of **Philips Digital Radiography: An Administrator's Guide**, email Philips at Goingdigital@philips.com. Published by Philips with input from pioneering radiology administrators throughout the world, this guide takes you through the steps necessary to make digital radiography work best for your practice. From the basic concepts to needs assessment, implementation and training—it's all here.

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