Stryker High Definition
Digital Radiography
Powered by Swissray
When seamless connectivity equals seamless workflow

**Stryker HD DR Modality Workstation**

**Comprehensive Patient Data Management**

The Stryker HD DR modality workstation manages all patient data and integrates with existing and future network connections. Open system architecture and «IHE» proven DICOM 3.0 compliant interfaces seamlessly integrate with local workstations and modality archives. HL7 interface capability enables full integration with PACS.

The Stryker HD DR software displays diagnostic quality images in seconds for immediate review. With numerous functions such as window/leveling, zoom, rotation, positive/negative display, TrueSize image hardcopy and/or softcopy viewing, radiographic images can be customized to meet any preference.

The CutOff and SizeWise functions reduce image file size and optimize data storage capacity. All patient data is stored in the DICOM header and can be retrieved for future examinations.

Stryker HD DR provides a variety of automated quality control features such as a statistical tool to perform repeat/reject digital examination analysis and an exposure index to monitor image quality as it relates to radiation dose. Automatic algorithm selection minimizes post-processing requirements.

**DICOM 3.0 compliant**

**HL7 interface for PACS integration**

**File size optimization**

**AutoStitching**

Stryker HD DR systems perform full body imaging with their unique «AutoStitching» function, automatically combining up to four images.

Orthopedic studies such as Scoliosis and Long Leg imaging are performed with greater speed and precision than ever before.

**TrueSize Imaging**

Stryker HD DR systems provide the ability to capture, view, print and store true size digital images. This unique feature allows the application of digital or analog templates for surgical planning without complex and time consuming mathematical calculations.

**Off Center Imaging**

The Off Center Imaging function allows comfortable patient extremity positioning outside of the detector’s center for special orthopedic and pediatric examinations.

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**eXpert™ Control Desk**

**Automated Procedures**

The eXpert™ control desk provides a real solution for the workflow of the orthopaedic practice by automating every aspect of the radiographic procedure.

Patient demographic data can be transferred directly from a PACS via DICOM worklist while all exposure and image processing parameters can be chosen with a few touch screen selections.

The eXpert™ is protocol driven with the ability to store individual parameter preferences for multiple orthopaedic surgeons and technologists.
When workflow efficiency exceeds all expectations

APS™—Automated Positioning System
Eliminate Repeats and Retakes

The APS™ – Automated Positioning System streamlines the radiography workflow process by automating all positioning and image acquisition requirements. Transfer data directly from a PACS via DICOM worklist while choosing exposure and image processing parameters with simple touch screen selections.

Advanced robotics position the system for the selected examination by remote control while an integrated video camera monitors the patient to ensure correct positioning. Set exposure factors and prepare for follow-up examinations using parameters retrieved from DICOM headers of previous examinations.

ALLinONE™ Stand
Orthopedic Full Length Imaging

The unique ALLinONE™ stand, the backbone of the Stryker HD DR Orthopedic Imaging Package, supports special DR orthopedic applications such as Scoliosis and Long Leg studies as well as Weight Bearing examinations.

In addition, the ALLinONE™ stand revolutionizes the way imaging techniques are selected. Data such as weight, height and lipid content are automatically collected and transmitted wirelessly to the control desk.

The eXpert™ system calculates the perfect examination technique for the particular patient’s Body Mass Index (BMI) and adjusts all imaging parameters accordingly to achieve the best image quality at lowest radiation dose.

Additionally, the ALLinONE™ stand features a weight distribution indicator which provides positioning feedback to perform Weight Bearing examinations with unprecedented accuracy.
When productivity and exceptional value come together

With the introduction of the HD DR 3000 Series, Stryker sets the new benchmark in this market segment. It is a space efficient and multifunctional, direct digital radiography system, designed to accommodate the demanding requirements of modern radiography departments.

All system movements are fully automated and remote controlled for maximum user friendliness. The HD DR 3000 features a C-arm design with the X-ray tube always centered to the detector for fast, precise and convenient patient positioning. The system efficiently performs all general radiographic procedures with a single detector, minimizing investment and maintenance costs. For orthopedic and pediatric applications, the HD DR 3000 performs off center imaging. Additionally, the “AutoStitching” function combines up to four images, delivering full body imaging, such as scoliosis or long leg examinations.

The HD DR 3000 delivers high quality radiographic images in just seconds. The single detector technology dramatically improves overall productivity, and significantly lowers the cost of general radiography in comparison to conventional or computed radiography. In fact, the HD DR 3000 performs at least double the workload of cassette based radiography systems, freeing up valuable space and technical staff for other tasks.

The system incorporates the new proprietary HD-3000 Solid State Detector delivering superb image quality at low radiation dose. The superior performance is a result of optimum balance between the newest technologies from several areas of imaging physics research. The HD-3000 is the latest generation of digital detector technology. It offers the largest active imaging area in the marketplace with over 17” (44 cm) square format.

Off Center Imaging
The off center imaging function allows comfortable patient extremity positioning outside of the detector’s center for special orthopedic and pediatric examinations.

TrueSize Imaging
Stryker HD DR systems provide the ability to capture, view, print and store true size digital images.

This unique feature allows the application of digital or analog templates for surgical planning without complex and time consuming mathematical calculations.
Outstanding Image Quality with High Definition Silicon Solid State Detector
Active Imaging Area of 17" (44 cm)

Standard Variable SID (FFD)

Space Efficient Design

Off Center Imaging Capability
Stryker HD DR5000 Series
When superior performance delivers superior quality

- **FP-5000™ amorphous silicon (TFT) detector**
- **17”x17” (43 cm) image size**
- **AutoStitching**
- **APS™—Automated Positioning System**
- **TrueSize imaging**
- **Off detector/center imaging optional**

The Stryker HD DR 5000 is the most automated DR solution in the marketplace. All system movements are motorized and software controlled, resulting in total automatic functionality. Depending on the user’s preference, the system is available with either fixed or variable SID (FFD). The unique APS™ – Automated Positioning System automates all system positioning and image acquisition requirements with the simple push of a single button on a wireless handheld remote control.

With a Minimum Time Between Exposure «MTBE» of only three seconds and Exposure to Diagnostic Image «EDI» in five seconds, workflow and patient throughput increases tremendously.

Performing the workload of four cassette based radiography systems, the Stryker HD DR 5000 frees up valuable space and technical staff for other use.

Featuring a customizable backlit design on the front cover of the system, clinics can create custom artwork for the Stryker HD DR 5000, enhancing the ambience of the radiographic examination room and creating a positive patient experience.
The Stryker HD DR 6000 system is engineered to provide fast, superior digital imaging in the high volume orthopaedic clinic. Patients can now be easily imaged from head to toe, AP and lateral, without being moved.

The Stryker HD DR 6000 system incorporates the unique FollowMe™ function, allowing trauma examinations to be performed more efficiently and ergonomically than with any other radiography technology. Whenever the X-ray tube is moved, the detector automatically centers itself on the correct region of interest, saving precious time for both patients and staff.

With a Minimum Time Between Exposure «MTBE» of only three seconds and Exposure to Diagnostic Image «EDI» in five seconds, radiographic examinations can be performed faster than with any other system. Critically injured patients can be quickly diagnosed, saving crucial time and ultimately, saving lives.
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