

stryker®

Imaging

High Definition **Digital Radiography**

Powered by
Swissray 



When seamless connectivity

equals seamless workflow

HDDR Modality Workstation

Comprehensive Patient Data Management

The Stryker HDDR 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 OfficePACS.

The Stryker HDDR 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 HDDR 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 OfficePACS integration

File size optimization



Transfer demographics via DICOM worklist

Touch screen parameter selection

Save individual preferences

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 OfficePACS 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.

AutoStitching

Stryker HDDR systems perform full body imaging with their unique “AutoStitching” function, automatically combining up to four images.

TrueSize Imaging

Stryker HDDR 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 examinations.

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 OfficePACS 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.

HDDR3000 Series

When productivity and exceptional value come together

- **HD-3000™ silicon solid state detector**
- **17”x17” (43 cm) image size**
- **Single Focus AutoStitching**
- **APS™—Automated Positioning System**
- **TrueSize imaging**
- **Off-center imaging capability**
- **Off detector imaging optional**

The Stryker HDDR 3000 Series is the most automated DR solution in the marketplace. All system movements are motorized and software controlled, resulting in total automatic functionality.

With the introduction of the HDDR 3000 Series, Stryker sets the 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 HDDR 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 applications, the HDDR 3000 performs off-center imaging. Additionally, the “Single Focus AutoStitching” function combines up to four images, delivering full body imaging, such as scoliosis or long leg examinations.

The HDDR 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 HDDR 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 proprietary HD-3000 Solid State Detector delivering superb image quality at low radiation dose (400 speed). As the latest generation of digital detectors, the HD-3000 offers the largest active imaging area in the marketplace with over 17” (44 cm) square format.



AutoStitching

Combine up to four images for full body imaging.

Off-Center Imaging

The off-center imaging function allows comfortable patient extremity positioning outside of the detector's center for special orthopedic examinations.

TrueSize Imaging

Stryker HDDR 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



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 HDDR 5000 features a C-arm design with the X-ray tube always centered to the detector for fast, precise and convenient patient positioning. 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 HDDR 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 HDDR 5000, enhancing the ambience of the radiographic examination room and creating a positive patient experience.

Variable SID (FFD)

LCD Panel with Patient and Positioning Information

C-Arm Design

Customizable Backlit Cover

Minimum Time Between Exposure
MTBE = 3 seconds

Exposure to Diagnostic Image
EDI = 5 seconds

FP-5000™ Si Flat Panel Detector with
3P™ - Panel Protection Program



HDDR6000 Series

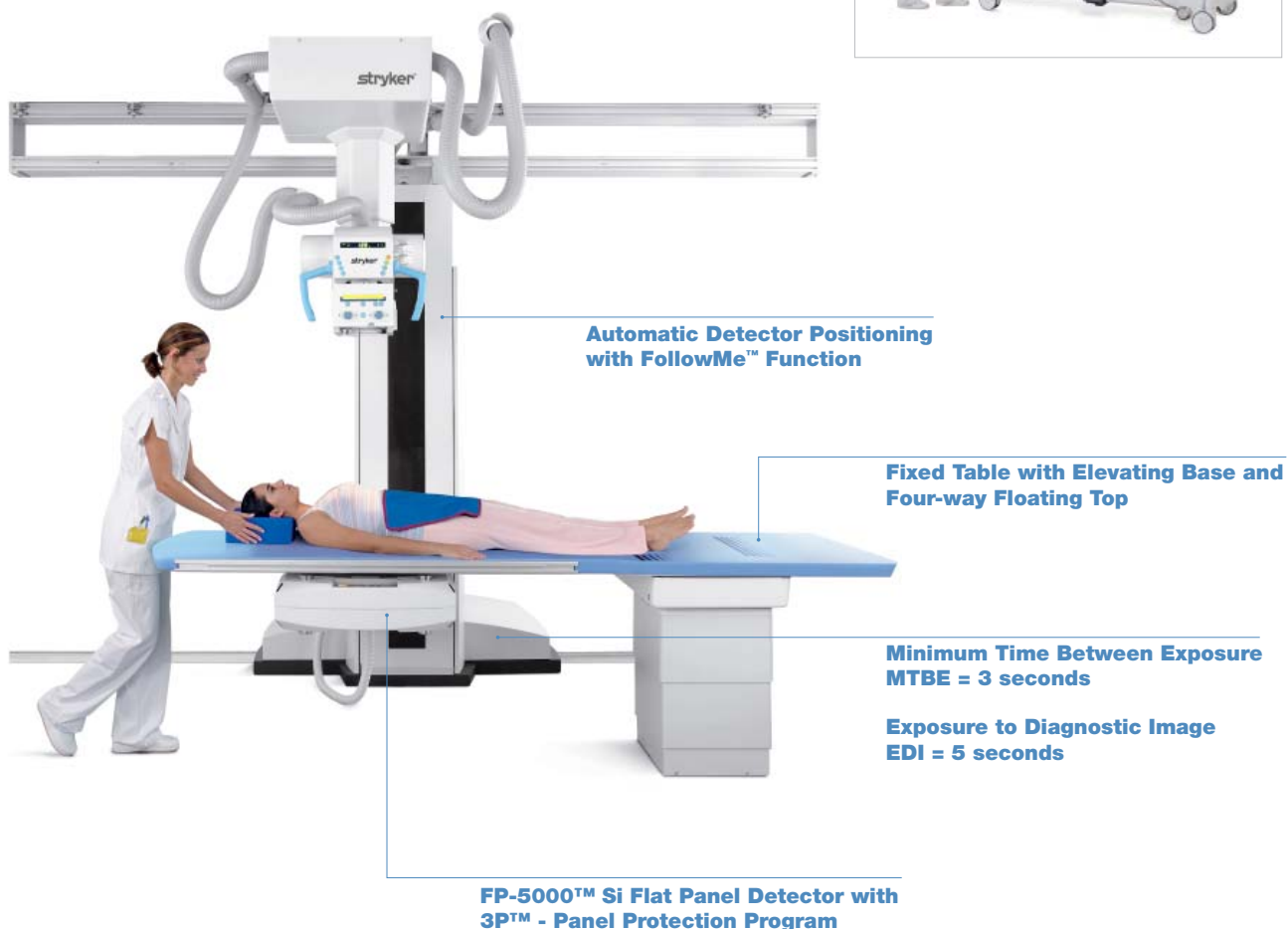
Exceptional versatility for exceptional circumstances

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

The Stryker HDDR 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 HDDR 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, allowing critically injured patients to be quickly diagnosed.





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