

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.



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.

Transfer demographics via DICOM worklist

Touch screen parameter selection

Save individual preferences

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.

Stryker HD DR3000 Series¹

When productivity and exceptional value come together

- HD-3000™ silicon solid state detector
- 17"x17" (43 cm) image size
- AutoStitching
- APS™—Automated Positioning System
- TrueSize imaging
- Off center positioning
- Off detector imaging optional

The Stryker HD DR 3000 is a space efficient and multifunctional direct digital radiography system designed to accommodate the demanding requirements of modern orthopaedic practices.

All system movements are fully motorized and remote controlled for maximum user friendliness.

The Stryker HD DR 3000 features a Q-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.

The Stryker HD DR 3000 delivers high quality radiographic images in just seconds. Single detector technology dramatically improves overall productivity, and significantly lowers the cost of general radiography in comparison to conventional or computed radiography. Performing at least triple the workload of cassette based radiography systems, the Stryker HD DR 3000 frees up valuable space and technical staff for other use.

Incorporating the new digital High Definition Silicon Solid State Detector HD-3000™, the system delivers outstanding image quality at low radiation dose. The Stryker HD DR 3000 also performs full body imaging, such as scoliosis and long leg examinations with its unique «AutoStitching» function that combines up to four images.



Stryker HD DR4000 Series

When performance is decisive

- Quad CCD detector
- 14"x17" image size
- APS™—Automated Positioning System
- TrueSize imaging
- Off detector imaging optional

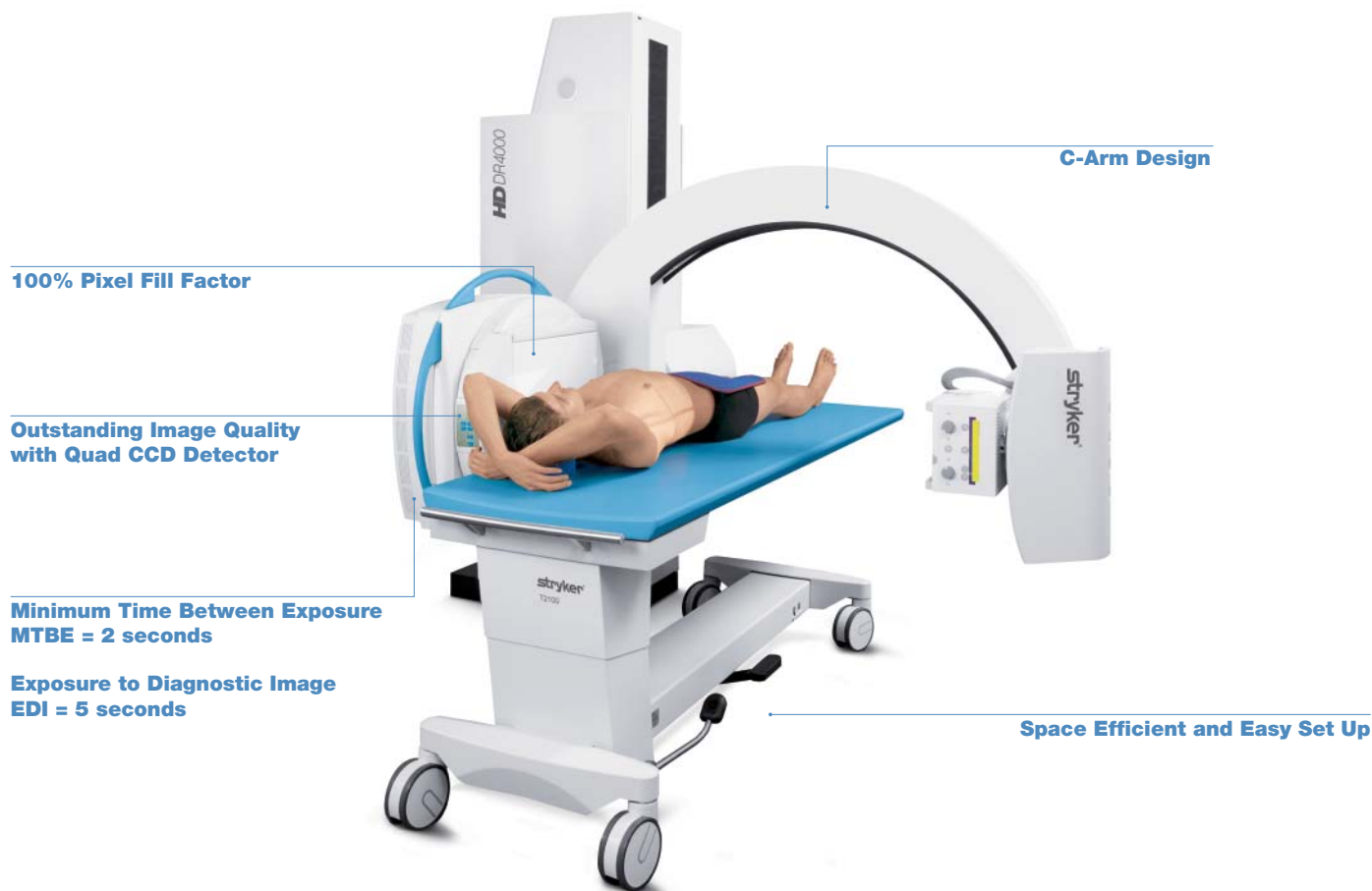
The Stryker HD DR 4000 is an innovative system that efficiently performs all general radiographic procedures with a single detector, minimizing investment and maintenance costs.

With a Minimum Time Between Exposure «MTBE» of two seconds and Exposure to Diagnostic Image «EDI» in five seconds, workflow and patient throughput increases tremendously. Performing the workload of three cassette based radiography systems, the Stryker HD DR 4000 frees up valuable space and technical staff for other use.

All system movements are motorized and software controlled enabling extensive automatic functionality. The C-arm design with its centered tube/detector device allows convenient, fast and precise patient positioning.

With the HD DR Memory feature, all parameters can be recalled from the DICOM header of a previous examination and re-applied for the current procedure, enabling highly reproducible imaging.

The Stryker HD DR 4000 detector has both clinically proven reliability and outstanding image quality while requiring low radiation dose. Stryker's full frame pixels – 100% fill factor – are unimpeded by non-detecting semiconductor components. At 600 speed, the Stryker HD DR 4000 detector uses low radiation dose and the 16 bit technology provides over 65,000 gray levels, delivering more diagnostic information than any other CCD detector.



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

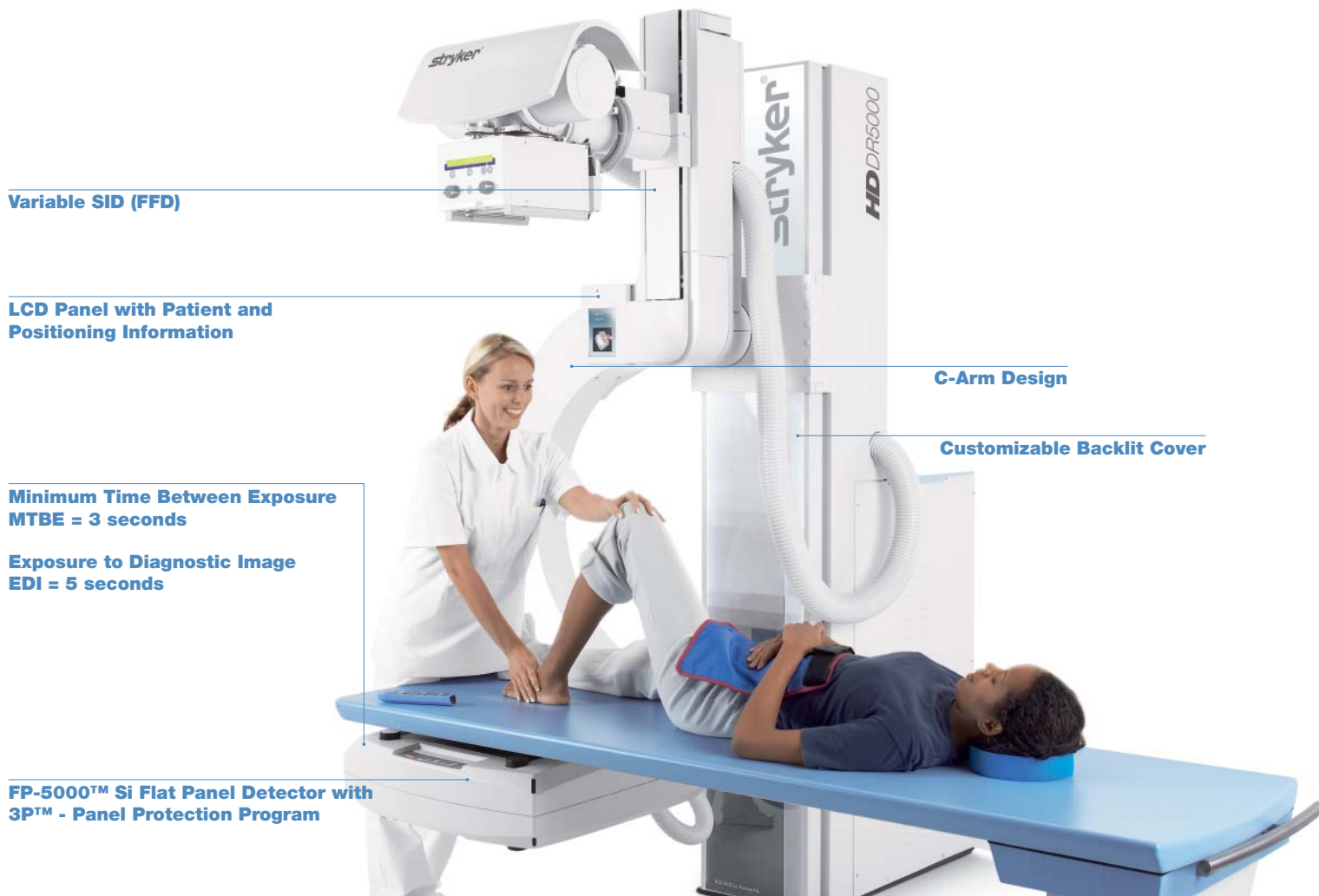
The Stryker HD DR 5000 is the most automated DR solution in the market-place. All system movements are motorized and software controlled, resulting in total automatic functionality.

The Stryker HD DR 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 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.



Stryker HD DR6000 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 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.



Automatic Detector Positioning with FollowMe™ Function

Fixed Table with Elevating Base and Four-way Floating Top

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

Joint Replacements

Trauma, Extremities & Deformities

Craniomaxillofacial

Spine

Biologics

Surgical Products

Neuro & ENT

Interventional Pain

Navigation

Endoscopy

Communications

Imaging

Patient Handling Equipment

EMS Equipment

Rehabilitation Services

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¹ Pending FDA approval

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