



efficiency

ddRCompact™ Series

Swissray 

beyond conventional DR

Swissray is the pioneer and worldwide leader in the design, manufacturing and marketing of state-of-the-art Digital Radiography systems. Swissray's unique APS™ – Automated Positioning System – takes performance beyond conventional DR by streamlining the radiography workflow to the maximum. Swissray delivers unmatched image quality at low radiation dose.

LCD-Panel with system and positioning information

Off-center imaging capability
Variable SID (FFD)

HD-3000™ High Definition Silicon
Solid State Detector

Active imaging area over 17" (44 cm)
square

Space efficient and easy set-up



Award winning technology

Efficient and **affordable**

Swissray's ddRCompact™ is a space efficient and multifunctional direct digital Radiography ddR system, designed to accommodate the demanding requirements of modern radiography departments and imaging centers. In recognition of its development of a new high-quality, low-cost radiography system, Swissray was presented with the prestigious Frost & Sullivan 2008 Product Innovation of the Year Award.

All system movements are fully motorized and remote controlled for maximum user friendliness. The ddRCompact™ features a C-Arm design with the X-ray tube always centered to the detector for fastest, most precise and convenient patient positioning. The system efficiently performs all general radiographic procedures with a single detector, minimizing investment and maintenance cost.



Features

- APS™ – Automated Positioning System
- Minimum Time Between Exposure (“MTBE”) of 3 seconds
- AutoStitching for Orthopedic Imaging
- Off-center imaging
- EASI Function – Examination Automated Sequence Imaging
- Performs the workload of 3 cassette based systems



from RIS/HIS



eXpert™

APS™

SwissVision®



to PACS



APS™ – Automated Positioning System

Automatically **faster**

Swissray's unique APS™ – Automated Positioning System – streamlines the radiography workflow process by automating all positioning and image acquisition requirements. Patient data can be transferred directly from the RIS/HIS via DICOM worklist, while all exposure and image processing parameters can be chosen with simple touch-screen selections. Swissray's advanced robotics position the system for the selected examination by remote control.

Features

- Handheld remote controlled system positioning
- 1296 pre-programmed, fully customized positions
- Advanced robotics for selected examination
- Memory function for consistent follow-up examinations
- Virtually eliminates repeats and retakes





HD-3000™ Detector

High **definition** imaging

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 market place with over 17" (44 cm) square format.

Features

- up to 3.3 lp/mm spatial resolution
- 103 micron pixels
- over 17" (44 cm) square format for large field-requirements
- integrated Anti Blooming Technology
- ITO processed coding for exceptional image quality



Over 17" square format for large field-requirements.



The HD-3000™ grid can be conveniently attached and removed in any detector position.



Patient Data Management

Connecting seamlessly

The **eXpert™ 3000 control desk** automates every aspect of the radiographic procedure. Patient demographic data is transferred directly from RIS/HIS via DICOM worklist while all exposure and image processing parameters can be chosen with a few touch-screen selections.

The **SwissVision® modality workstation** comprehensively manages all patient data. Open system architecture and "IHE" proven DICOM 3.0 compliant interfaces seamlessly integrate with existing and future network connections like PACS, RIS, local workstations and modality archives.

eXpert™ features

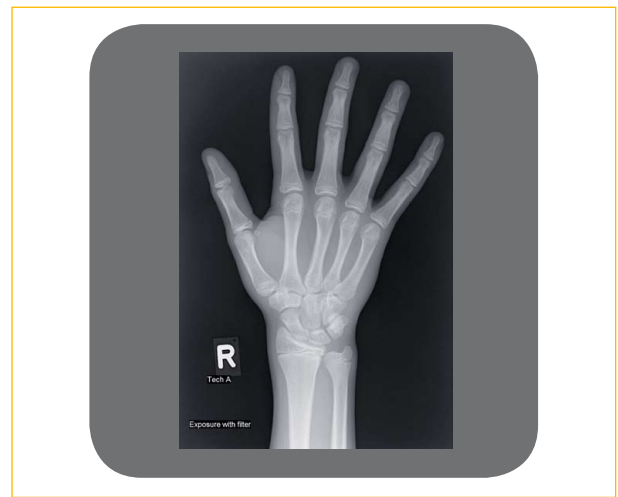
- **MPPS (Modality Performed Procedure Step)** – work orders are received directly from RIS/HIS via DICOM
- **Protocol driven** – individual parameter preferences can be stored for multiple users
- **EASI Function** – Examination Automated Sequence Imaging

SwissVision® features

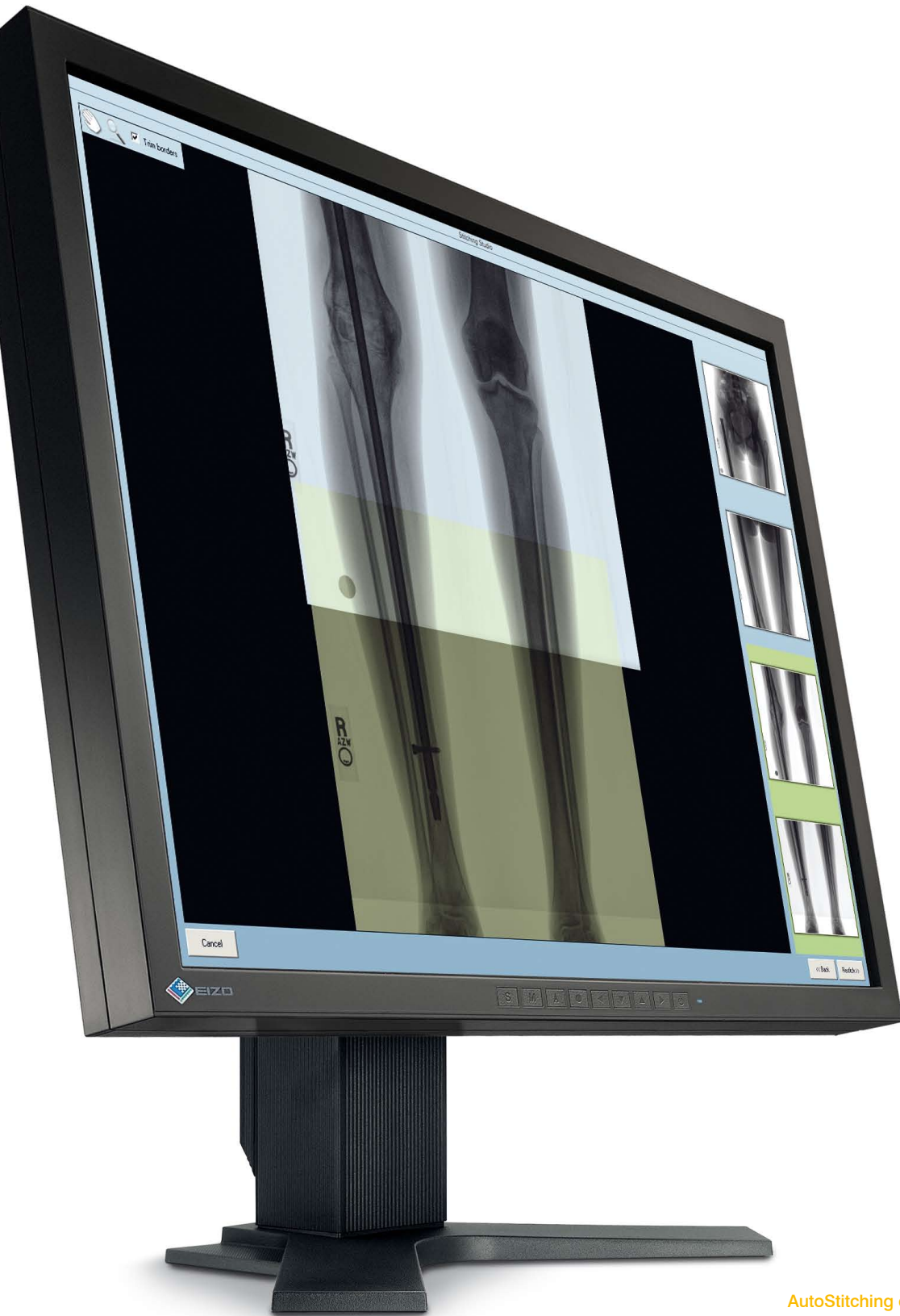
- Functions such as windowing, leveling, zoom, rotation and positive/negative displaying
- **TrueSize Imaging**
- **Automatic algorithm selection** minimizes post-processing requirements
- **Patient data stored in DICOM header** for future examinations
- **Repeat/reject examination analysis**
- **Exposure index** to monitor image quality in relation to radiation dose
- **HL7 interface capability** for full integration with HIS



The eXpert™ 3000 comes with an intuitive and easy to operate graphical user interface.



The CutOff and SizeWise functions reduce image file size and optimize data storage capacity. Text annotations can be added for convenient image identification.



AutoStitching combines up to four images.

Orthopedic Excellence

Simply more **efficient**

AutoStitching. The *ddRCompact™* 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. It comes with a field mapping function to preset the whole examination. The single focus technology eliminates distortion thus providing accurate imaging data. A four image-stitching procedure can be done within seconds. The EasyCorrect tool allows the user to ensure perfect alignment even in case of patient movement.

Bone Mineral Density Analysis. Software algorithms automatically analyze a digital hand radiograph to measure bone mineral density with accuracy and precision. Providing unsurpassed access, convenience and clinical performance, the analysis costs only a fraction of other BMD testing devices available. Swissray's BMD Analysis Package has its own reimbursement code and provides additional revenues.



Scoliosis Imaging

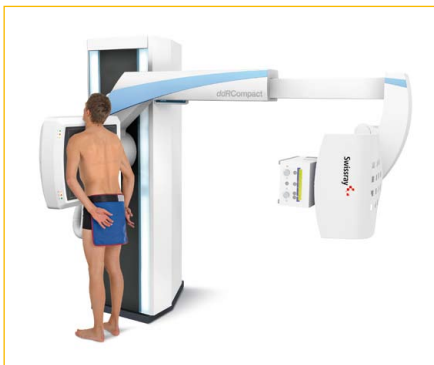


Long Leg Imaging



Bone Mineral Density Analysis

Motorized X-ray tube rotation enables off-detector imaging on cassette based media for the occasional patient that cannot be transferred to the imaging table. This feature makes the *ddRCompact™* Plus ideal for Emergency Room applications.



Chest imaging



Off-center imaging



ddRCompact™ Applications

Providing **efficiency**



beyondDR

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