Productivity

beyond expectations
Swissray pioneered the development of DR technology more than twenty years ago. It has always been our commitment to exceed expectations and care more about everything we do. We care more about delivering ultimate workflow efficiency while providing excellent image quality. We care more about providing ease-of-use and seamlessly integrated user interfaces. But most of all, we care more about the technologist’s needs and the patient’s comfort. That’s why health care providers and patients around the world rely on Swissray’s superior quality and highly efficient digital radiography.

Because we simply care more

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Superior performance delivers superior quality

The ddRFormula® is Swissray’s innovative C-arm designed digital radiography system. Featuring the exclusive APS™ – Automated Positioning System – it is the most automated DR solution in the marketplace. All system movements are motorized and software-controlled resulting in total automatic functionality. The ddRFormula® features a C-arm design with the X-ray tube always centered to the detector for fastest, most precise and convenient patient positioning.

The ddRFormula® Plus version allows for convenient off-detector imaging.

Features
- APS™ – Automated Positioning System
- Image preview in 3 seconds
- Considerably exceeds the workload of cassette-based systems
- Single focus expertStitching™ for orthopedic imaging
- Off-center Imaging

Variable SID (FFD)

LCD panel with system positioning information

ddArt™ backlit cover

C-arm design

FP-5000™ a-Si flat panel detector
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 positions the system for the selected examination by remote control while an integrated video camera monitors the patient to ensure correct positioning.
FP-5000™ Detector

More detail detectability
less radiation dose

With 3.5 lp/mm spatial resolution and excellent DQE, Swissray’s FP-5000™ silicon (Si) flat panel detector delivers superior diagnostic image quality at lowest possible radiation dose. It combines amorphous silicon technology with a cesium iodide scintillator, providing excellent detail detectability. The panel protection mechanism provides superb collision protection thus eliminating concerns over reliability of flat panel technology.

FP-5000™ detector features

- 3.5 lp/mm spatial resolution
- 43 × 43cm (17” square) format for large-field requirements
- Excellent DQE
- Carbon fiber casing lowers radiation dose requirement
- Five field measuring chamber
- Featuring floating frame shock absorber for maximum panel protection

Ultimate panel protection in case of a collision
The floating frame shock absorber and an energy-dampening mechanism absorb and dissipate impact energy.

Removable grid
Swissray’s grid can be conveniently attached and removed in any detector position.
**eXpert™ control desk**

The eXpert™ 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.

**eXpert™ features**

- Intuitive and easy-to-use touch screen interface
- Fully customizable GUI with integrated organogram editor
- 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

**SwissVision® workstation**

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.

**SwissVision® features**

- Functions such as windowing, leveling, zoom, rotation and positive/negative displaying
- Image preview in 3 seconds
- 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
Pediatric imaging solutions
The ddRFormula® performs off-center imaging for orthopedic and pediatric applications.

Advanced Imaging Applications

Specific needs require specific solutions

Children are among the most important beneficiaries of Swissray’s low radiation dose. The pediatric package includes 3.5 lp/mm spatial resolution with special imaging algorithms and X-ray parameters providing unrivaled image quality with highest detail detectability. In addition, the built-in eXpertView™ camera is especially useful for pediatric applications. With the ability to perform the examination in a fraction of the time, Swissray has minimized much of the fear and anxiety associated with pediatric imaging.

Special chest imaging parameters and algorithms make the ddRFormula® the diagnostic tool of choice for pulmonary disease detection. Health care providers around the globe have chosen Swissray DR systems for their TB screening programs.

Chest imaging
Special chest imaging algorithms provide unmatched diagnostic information.
Orthopedic Excellence

Single focus stitching
for higher accuracy

Ever since Swissray introduced DR to orthopedics, we have been the trusted digital radiography solution for hospitals and imaging centers of all sizes. The ddRFormula performs orthopedic imaging by accurately combining up to four adjacent images. With Swissray’s single focus stitching technique, the position of the X-ray tube remains fixed with respect to the patient over the time sequence of images. This ensures the overlap regions are geometrically equivalent, resulting in identical images of the anatomy.

Swissray’s stitching studio software automatically combines the single images and allows the technologist to manually correct the image alignment by panning or fiducial placement. Image blending options also create the look of a single exposure. Additionally, small patient motion between exposures is easily corrected. Orthopedic studies such as scoliosis and long leg imaging are conveniently performed with more efficiency and higher accuracy than ever before.
ddArt™ is an exclusive backlit design on the front cover of the system. Artwork such as sports themes, cartoons or institutional banners can be selected or customized. ddArt™ greatly enhances the ambience of the radiographic examination room, thus creating a positive patient experience.
More versatility
for more productivity

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 is exceptionally useful with emergency room applications.
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