

# ddRElement™ Series

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**Value and performance**  
*without compromise*

Digital Radiography from Swissray

## Because we simply *care more*

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.



ddRElement™

## Proof that superior image quality *can be affordable*

Our engineers have designed the ddRElement™ based on feedback we have received from customers for over a decade. Without sacrificing image quality and functionality, Swissray offers a space-efficient, multifunctional DR system which is affordable for any imaging provider. As with all Swissray ddR systems, the ddRElement™ delivers on the promise of reducing cost while increasing productivity and improving patient care.

The ddRElement™ delivers excellent quality radiographic images in just seconds. Fast and effortless manual system positioning, coupled with its workflow optimized user interface, provide at least twice the productivity of cassette-based radiography systems.

### FP-6000™

Amorphous silicon flat panel detector, 3.5lp/mm spatial resolution. Active imaging area of 43×43 cm (17" square)



### Features

Multifunctional system for all radiography examinations including orthopedic imaging

Exceptionally low central beam for standing lower extremities

C-arm design for convenient cross-table lateral examinations

Easy to use for patients with special needs

Fits small examination rooms with low ceiling heights

Variable SID (FDD) 110–200 cm

C-arm design

Rotatable X-ray tube for off-detector and off-center imaging

Ergonomically placed operator controls

Space-efficient design

## Simple, intuitive and easy to use

The unique Swissray workstation includes the eXpert™ user interface as well as the award-winning SwissVision® imaging software.

Designed specifically for simple and fast operation while providing optimized workflow and higher productivity.

The intuitive touch screen user interface with visual positioning guide simplifies radiographic procedures by automatically setting the right parameters for any chosen region of interest.

Maintaining the philosophy of simplicity and productivity, the interface was designed to complete the examination setup with the fewest steps possible.



- 1 User login
- 2 Age group selection
- 3 Manual technique selection
- 4 Positioning guide
- 5 Positioning view

### eXpert™ features

Intuitive and easy-to-use touch screen interface

Visual positioning guide

Individual parameter preferences can be stored for multiple users

Automatic imaging parameter adjustment by age group

Fully customizable with integrated organogram editor

Multi-language capability

**SwissVision® features**

Automatic algorithm selection minimizes post-processing requirements

MPPS – Modality Performed Procedure Step DICOM functionality

Patient examination data is stored in DICOM header for future procedures

Windowing, leveling, zoom, rotation, positive/negative displaying, etc.

SizeWise function reduces image file size

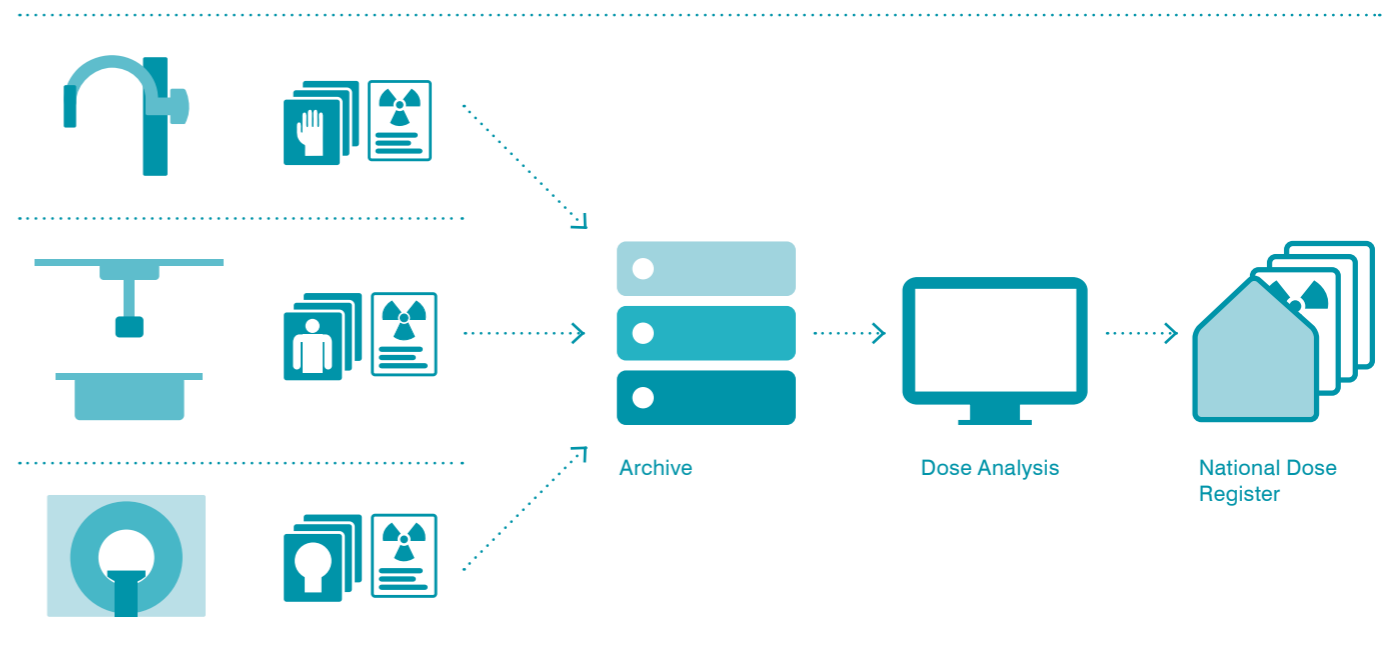
Text annotations and electronic right/left orientation marker

Repeat/reject examination analysis



## Seamless connectivity *means faster workflow*

The *ddRElement™* easily and seamlessly integrates into your network to speed decision making and communication. Patient demographic data is transferred directly from RIS via DICOM worklist, while all processing parameters can be chosen with a few touch screen selections. Open system architecture with «IHE» proven DICOM compliance including the MPPS functionality integrate with PACS, RIS, local workstations and modality archives, regardless of vendor. Additionally, Swissray's DICOM software complies with the REM reporting function, thus supporting the distribution of applied radiation dose for central registry analysis.



**Radiation Exposure Monitoring (REM)**

REM facilitates the collection and distribution of information about patient radiation exposure.

## FP-6000™ Detector

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# Providing image quality *beyond its class*

The *ddRElement*™ features the high quality FP-6000™ amorphous silicon flat panel detector. With 3.5 lp/mm spatial resolution and an active imaging area of 43 × 43 cm (17" square), the new FP-6000™ provides very high detail detectability while satisfying all large field requirements. The cesium iodide technology combined with Swissray's uniquely optimized algorithms results in exceptional image quality at a very low dose.



### Detector positioning

Convenient electro-magnetic activation for precise detector positioning.



### Removable grid

Swissray's X-ray grid can be easily attached and removed in any detector position.



### FP-6000™ detector features

3.5lp/mm spatial resolution

43 × 43 cm (17" square) format for large-field requirements

Excellent DQE with cesium iodide scintillator

Robust design protects detector from shocks and lowers maintenance cost

## Specific needs *require specific solutions*

Children are among the most important beneficiaries of Swissray's low dose DR technology. With industry leading spatial resolution and imaging algorithms specifically designed for radiation dose reduction, Swissray provides unrivaled image quality with highest detail detectability. Because children feel comfortable with the equipment, the C-arm design makes it easy to position pediatric patients.

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

### Off-center imaging

The *ddRElement™* caters to patients unable to position their extremities in the center of the detector with fast and convenient setup to perform off-center imaging.



Chest imaging with up to 200cm SID (FDD).



Off-center imaging with patient comfort in mind.

## Multifunctionality

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# A multifunctional system *for more versatility*

Thanks to its versatility, the *ddRElement*<sup>™</sup> is the perfect system for all general radiography examinations on recumbent, seated and upright patients.

Advanced engineering with electro-magnetic controls ensures safe and effortless manual system positioning. With the C-arm design, the X-ray tube is always centered to the detector, which makes patient positioning fast, precise and convenient. For orthopedic, pediatric and geriatric applications, the *ddRElement*<sup>™</sup> performs off-center imaging. The X-ray tube rotation enables off-detector imaging on portable detectors or cassette-based media for the patient that cannot be transferred to the imaging table.



Ideal for patients with special needs.



Off-detector imaging with portable detectors or cassette-based media.



### Features

Versatile C-arm design allows for more functionality

Off-center and off-detector imaging

Ergonomically placed electro-magnetic controls

Variable SID (FDD) 110–200 cm

Effortless movement for precise positioning



Orthopedic Excellence  
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## Incorporating years *of experience*

Ever since Swissray introduced DR to orthopedics, we have been the trusted digital radiography solution for practices of all sizes. We know how to eliminate workflow bottlenecks resulting from outdated imaging systems and processes. We designed the *ddRElement™* by listening to hundreds of orthopedic specialists around the world to improve system design and make DR more affordable, thus leading to a faster return on investment.

With its compact system design, the *ddRElement™* fits into small examination rooms with low ceiling heights. All orthopedic examinations including axial patella, cross-table lateral hips, axial shoulder, weight-bearing as well as long leg and scoliosis studies are performed with speed, ease and great patient comfort while delivering exceptional image quality.



Weight-bearing studies.



Ideal for special orthopedic examinations.



Fast, precise and convenient patient positioning.



### Stitching studio workstation

Optional stitching studio workstation stitches up to four adjacent images for long leg and scoliosis imaging. Including advanced orthopedic software features such as automated blending alignment function and Cobb angle measurements.

**More versatility**  
*for more productivity*



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