Value
without compromise

$ddRElement^\text{TM}$ Series
In developing the *ddRElement™*, we took the same uncompromising approach that has underpinned our philosophy since we pioneered the development of DR technology. Delivering unmatched image quality at lowest radiation dose and providing highest workflow efficiency has always been our commitment. Now we’re offering the performance healthcare providers around the world have come to expect from Swissray at an exceptional value.
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 highest 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
3.5 lp/mm spatial resolution
Active imaging area of 17”×17” (43 cm)
Variable SID (FDD) 110–200 cm

Space-efficient design

C-arm design

Rotatable X-ray tube for Off-Detector and Off-Center Imaging

Ergonomically placed operator controls
Simple, intuitive and easy to use

Fewest steps to exposure
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 touchscreen user interface with visual positioning guidance 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 set-up with the fewest steps possible.

eXpert™ features
- Intuitive and easy to use touchscreen 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
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 touchscreen 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.

**SwissVision® features**
- Automatic algorithm selection minimizes post-processing requirements
- MPPS – Modality Performed Procedure Step DICOM functionality
- All patient examination data is stored in DICOM header for future procedures
- Windowing, leveling, zoom, rotation, positive/negative displaying, etc.
- Border CutOff and SizeWise functions reduce image file size
- Text annotations and electronic right/left orientation marker
- Repeat/reject examination analysis

**Patient Data Management**

Real Time Monitoring provides proactive system assessment for optimal performance and maximum uptime.

Integrated IHE compliant Radiation Exposure Monitoring (REM) with optional Dose Area Product (DAP) meter records and stores values in patient file.
Providing image quality that’s **beyond** its class

The *ddR*Element™ features the new proprietary FP-6000™ amorphous silicon Flat Panel detector. With 3.5 lp/mm spatial resolution and an active imaging area of $17'' \times 17''$ (43 cm), 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 the lowest dose possible.

**FP-6000™ features**
- 3.5 lp/mm spatial resolution
- 143 micron pixels
- $17'' \times 17''$ (43 cm) format for large field requirements
- Excellent DQE with Cesium Iodide scintillator
- Robust design protects detector from shocks and lowers maintenance cost

Convenient electro-magnetic activation for precise detector positioning.

Swissray’s carbon fibre grid can be easily attached and removed in any detector position.
Specialized solutions for specific needs

Pediatric Imaging
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.

Chest Imaging
Special chest imaging parameters and algorithms make the ddRElement™ the diagnostic tool of choice for pulmonary disease detection. Healthcare systems 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.
Multifunctionality

A multifunctional system for more versatility

Thanks to its versatility, the ddRElement™ 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™ performs Off-Center Imaging. The X-ray tube rotation enables Off-Detector Imaging on Swissray’s ddRPortable™ detector or cassette based media for the patient that cannot be transferred to the imaging table.

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

Ideal for patients with special needs.

Off-Detector Imaging with Swissray’s optional ddRPortable™ detector.
A multifunctional system for more versatility

Maximum positioning versatility for any radiographic procedure.
Weight-bearing studies. Ideal for special orthopedic examinations. Fast, precise and convenient patient positioning.
Incorporating years of experience

Ever since Swissray introduced DR to Orthopedics, we have been the trusted digital radiography advisors to practices of all sizes. We know how to eliminate workflow bottlenecks resulting from outdated imaging systems and processes. We designed the latest Swissray innovation in DR, 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, it 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.

– Designed for all orthopedic radiography examinations
– 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

Optional OrthoVision™ workstation to stitch up to four images for Long Leg and Scoliosis imaging. Includes advanced orthopedic applications such as Cobb angle measurements.
ddRElement™ Applications

More versatility for
more productivity