

ddRVersa™ Series



Flexibility has never been
this affordable

Swissray 

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.



ddRVersa™

A comprehensive system for more versatility

The *ddRVersa™* Motion is designed to provide fast and flexible digital imaging in the demanding environment of a busy Radiography Department. Featuring Swissray's exclusive APS™ – Automated Positioning System, it is a multifunctional and fully automated digital radiography system with motorized ceiling suspension, a fixed positioning table with elevating base including a four-way floating top, a smart wall stand and auto-tracking detector with removable grids.

As a truly configurable multi-detector system, the *ddRVersa™* Motion comes in various detector configurations – dual fixed detectors, single wireless portable detector or any combination of both fixed and portable for ultimate workflow and flexibility.

Combined with Swissray's workflow optimized user interface, the Swissray *ddRVersa™* Motion is an affordable system that delivers superior image quality, increases productivity and improves patient care.

ddRPortable™ for greater flexibility

Excellent image quality and a compact and robust system design provide reliability and additional flexibility. Featuring convenient Wi-Fi or cable data transfer.

ddRVersa™

The smart radiography system comes in various configurations to meet any requirements of today's modern health care providers.

SwissVision® and eXpert™ user interface

Maximum ease of use and seamless connectivity provide better workflow efficiency.



Pediatric imaging solutions

The *ddRVersa's* lightweight ergonomic design with its smooth operation makes it easy to position pediatric patients. The *ddRPortable™* provides additional flexibility.



Smarter technology for smoother workflow

Swissray's advanced system design is based on smart technology and intuitive user interaction. Incorporating numerous clever features and functionalities, we have eliminated workflow bottlenecks and streamlined diagnostic imaging procedures for the benefit of technologists and patients alike.

Easy operation

The *ddRVersa*TM Motion's touch screen console brings the control desk to the patient's side. It allows the technologist to activate the FollowMeTM function, view the last image taken, adjust generator settings and automatic position by APR, change workstation selection, and view the current position settings such as tube angle, SID and collimation. In addition, it controls advanced applications such as eXpertStitchingTM for orthopedic imaging.

Safe operation

The tube automatically drives up and out of the way prior to moving across the room. It automatically stops if it comes in contact with an object during APSTM movements.

Flexible patient table

The *ddRVersa*TM Motion includes a fixed positioning table with elevating base and four-way floating top. The detector tracks the movements of the tube for quick and precise positioning. The grid is also removable for pediatric and extremity exams.

Fully motorized ceiling suspension

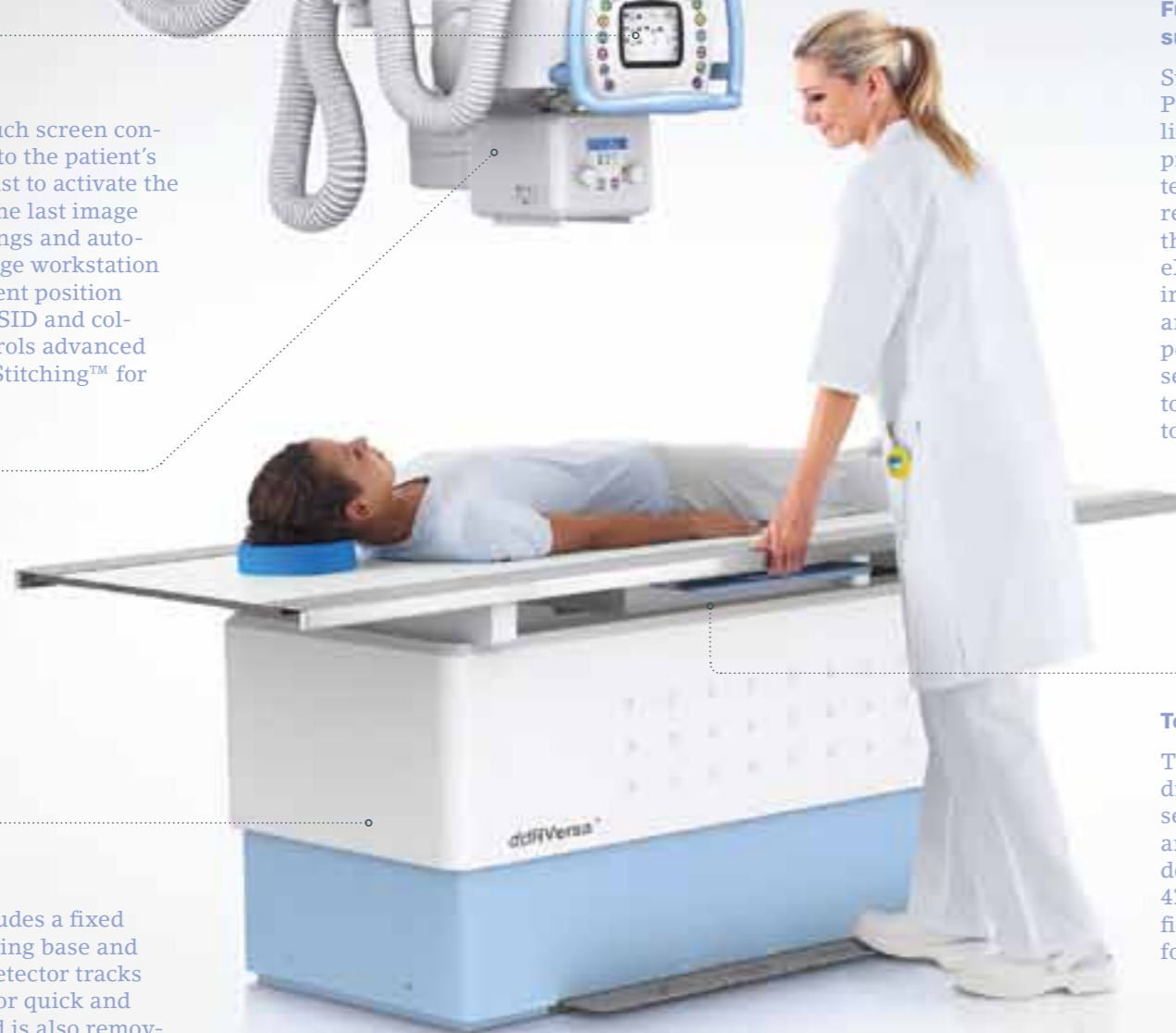
Swissray's APSTM – Automated Positioning System – streamlines the radiography workflow process by automating all system positioning and collimation requirements. After selecting the APR on the tube console or eXpertTM workstation, the ceiling suspension drives smoothly and precisely to the predefined position. It automatically senses the center of the detector and guides the central ray to the perfect position.

Top detector technology

The *ddRVersa*TM Motion delivers excellent diagnostic image quality with its highly sensitive cesium iodide detector with amorphous silicon technology for superior detail detectability. Panels are available in 43 × 43 cm (17" square) format for large-field requirements or in 35 × 43 cm (14 × 17") format for the wireless portable detector.

Smart wall stand

The motorized wall stand delivers the flexibility and speed that Swissray is known for. The detector height can be automatically positioned with Swissray's APSTM function, adjusted with the motorized foot control or manual vertical adjustment. For special orthopedic examinations, detector rotation tilt to 0° is also available.



Different configurations *for different requirements*

The *ddRVersa*[™] is available in different configurations – fully automated, semi-automated or manual, with multiple or single detector. They can all be tailored to meet your workflow requirements and budget specifications.



***ddRVersa*[™] Motion Plus**
Fully automated configuration

Swissray's advanced robotics automatically positions the system for the selected examination. Position selection of pre-programmed settings is available at the touch screen console right at the patient's side or at the eXpert[™] workstation outside the room. The FollowMe[™] function aligns the elevating table and the wall stand's detector with the overhead tube for faster workflow and more convenient image acquisition. Advanced single focus eXpertStitching[™] is an option for orthopedic applications.



***ddRVersa*[™] Motion AT**
Semi-automated configuration

The semi-automated configuration features Swissray's FollowMe[™] function for vertical alignment of the overhead tube with the wall stand and horizontal alignment with the patient table. Normal system movements and positioning can be conveniently controlled with just one hand thanks to the comfortable tube handle with central free release.



***ddRVersa*[™] Value**
Manual configuration

The *ddRVersa*[™] is also available in a manual version to meet the most budget-conscious requirements where automation is not a priority. Due to its lightweight ergonomic design, the manual system enables smooth and fast manual positioning of the ceiling suspension and wall stand.



***ddRVersa*[™] Motion SD**
Single detector configuration

The *ddRVersa*[™] is also available in a single detector version which provides the same excellent image quality and ease in positioning but with the smallest possible room requirements. The *ddRVersa*[™] SD can be configured with or without any of Swissray's mobile patient tables. The single detector wall stand is available with Swissray's FollowMe[™] feature including manual or motor-driven movements. Swissray's mobile patient table can be easily positioned over the wall stand's detector when it is parked in the 0° position.

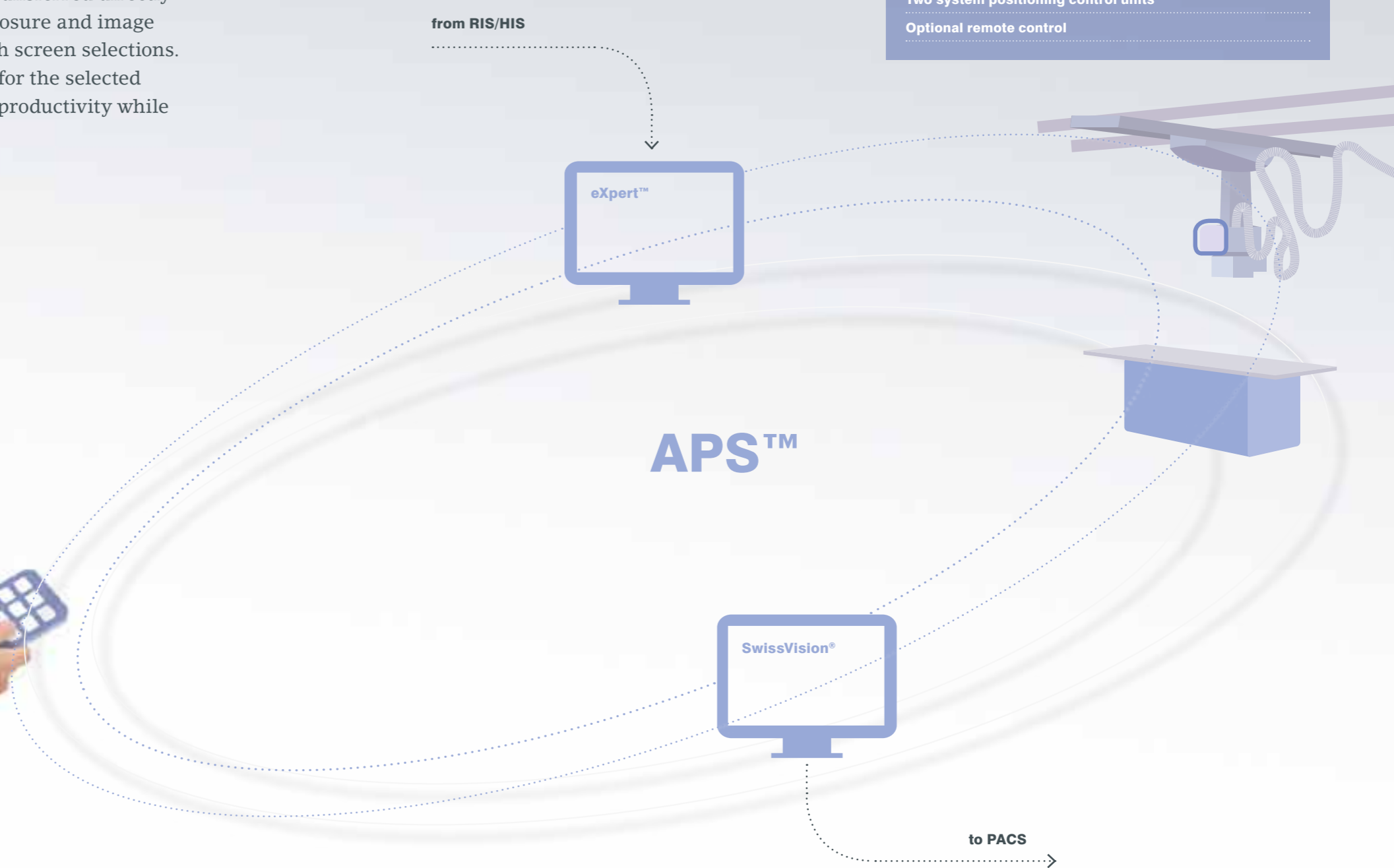
Total system automation for ultimate workflow efficiency

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. APS™ significantly increases workflow productivity while improving patient care.

APS™ features

- Advanced robotics for system positioning of selected examination
- Touch screen controlled examination selection
- Easily customized pre-defined parking positions
- Unlimited pre-programmed, fully customizable APR positions
- Two system positioning control units
- Optional remote control



A user interface with a difference

The unique Swissray workstation includes the eXpert™ user interface with an intuitive touch screen control panel. It simplifies radiographic procedures by automatically setting the required technical factors and parameters for the specific body part, view position and age group. The interface is designed to complete the examination setup with the fewest steps possible. Not all technologists are alike. This is why we developed a truly customizable user interface to meet the needs of any user.



- 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
- Individual parameter preferences can be stored for multiple users
- Automatic imaging parameter adjustment by age group
- Fully customizable GUI with integrated organogram editor
- Multi-language capability
- MPPS – Modality Performed Procedure Step DICOM functionality
- Individual user login with assignable rights
- Service interface for system setting and detector calibrations

SwissVision® features

Automatic algorithm selection minimizes post-processing requirements

Image preview in 3 seconds

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.

SizeWise function reduces image file size

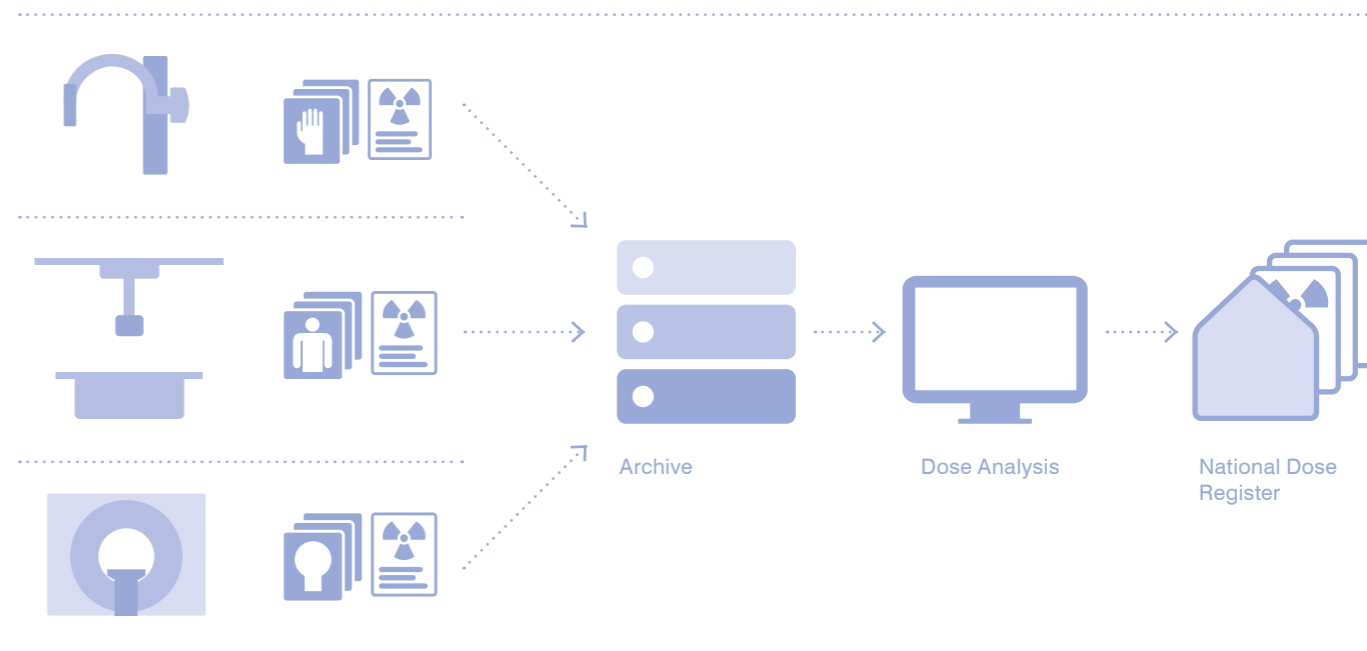
Text annotations and electronic right/left orientation marker

Repeat/reject and statistical analysis

Physician drop-down list

Seamless connectivity *means faster workflow*

The *ddRVersa™* easily and seamlessly integrates into your network. 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.

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 *ddRVersa™* Motion with its motorized wall stand and five-motor automatic ceiling suspension delivers additional flexibility for special orthopedic applications. Featuring Swissray's *eXpertStitching™* function, it utilizes a single focus stitching technique for orthopedic studies such as scoliosis and long leg imaging.

The *ddRVersa™* Motion calculates the number of images, required angles, image overlap and collimation needed to image the entire hip to ankle or full spine. Tube and detector move smoothly in sync to provide the fastest possible multiple image acquisition. Swissray's unique stitching studio combines and displays the diagnostic image. It offers multiple tools to deliver the best possible image for measurement and diagnosis. Orthopedic studies can be performed with greater precision, speed and patient comfort than ever before.



eXpertStitching™ workstation

The touch screen user interface is designed to complete highly accurate orthopedic examinations such as long leg and scoliosis imaging with the fewest steps possible.



SwissVision® stitching studio software

The software automatically combines up to four adjacent images. It 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.



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Fixed X-ray source

The position of the X-ray source 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 to combine.

ddRPortable™

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Adding more flexibility *with a truly portable detector*

The *ddRPortable™* is a lightweight portable cassette-sized flat panel detector, perfectly designed to handle any challenging examination requirement. Its innovative technology delivers excellent image quality and its robust system design provides the reliability needed in demanding environments. With Wi-Fi or cable data transfer, the *ddRPortable™* adds freedom and optimizes the diagnostic workflow.



ddRPortable™ features

35 × 43 cm (14 × 17") active image area

3.5 lp/mm spatial resolution

Weight: 2.8 kg (6.2 lbs)

Image preview in 3 seconds

Wi-Fi or cable data transfer

Large enough for chest and abdominal X-rays

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