

# ddRAura™ Series



**Productivity**  
*meets versatility*

**Swissray** 



### Easy operation

The ddRAura™ OTC APS's touch screen console brings the control desk to the patient's side. It allows the technologist to activate the auto tracking function, view the last image taken, adjust generator settings and automatic position by APR, change workstation selection, and view or modify the current position settings such as tube angle, SID and collimation. In addition, it controls advanced applications such as auto-stitching for full spine and leg imaging.

### Safe operation

Built-in sensors provide added security while the system is driven into automatic positions via wireless remote control or footswitch.

### Signal and Ambient lighting

Multi colored LED lighting on the tube and table change color based on system status. This feature creates a comforting atmosphere while providing visual cues to the technologist during positioning.

### Flexible patient table

The ddRAura™ OTC APS 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. The on board rotation and charging of the wireless detector provides increased efficiency.

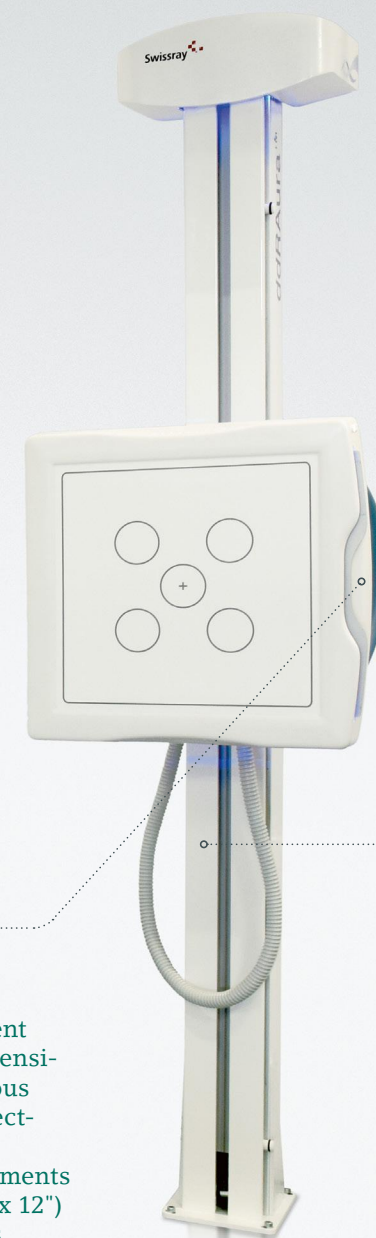


## Smarter technology for smoother workflow

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.

### Fully motorized ceiling suspension

Swissray's APS – Automated Positioning System facilitates the workflow with predefined system positioning, generator conditions and collimation opening. After selecting the projection on the tube side console / computer workstation, the operator simply needs to press the APS button on the footswitch / remote. The ddRAura™ OTC APS will drive smoothly and precisely to the predefined position. It automatically senses the center of the detector and guides the central ray to the perfect position.



### Leading detector technology

The ddRAura™ OTC APS 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 x 43 cm (17" square) format for large-field requirements or in 35 x 43 cm (14 x 17") or 24 x 30 cm (10 x 12") format for the wireless portable detectors.

### Smart wall stand

The motorized wall stand delivers the flexibility and speed that Swissray is known for. The detector height and optional tilting is automatically positioned with Swissray's APS function, and easily modified with motorized vertical adjustment. For special orthopedic examinations, detector tilt to 0° is also available.



## A comprehensive system for more versatility

The ddRAura™ OTC APS 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 ddRAura™ OTC APS comes in various detector configurations – dual fixed detectors, single or multi wireless portable detectors or any combination of both fixed and portable for ultimate workflow and

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

### Wireless portable detectors for greater flexibility

Excellent image quality and a compact and robust system design provide reliability and additional flexibility. Featuring convenient Wi-Fi data transfer available in both 3543 and 2430 detector sizes.

### ddRAura™ OTC APS

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

### ddRAura™ user interface

Maximum ease of use and seamless connectivity provide better workflow efficiency. Efficient flow from patient registration to completed study in minimal number of steps, the ddRAura's™ single high resolution workstation makes even the most demanding patient schedule easier to manage.

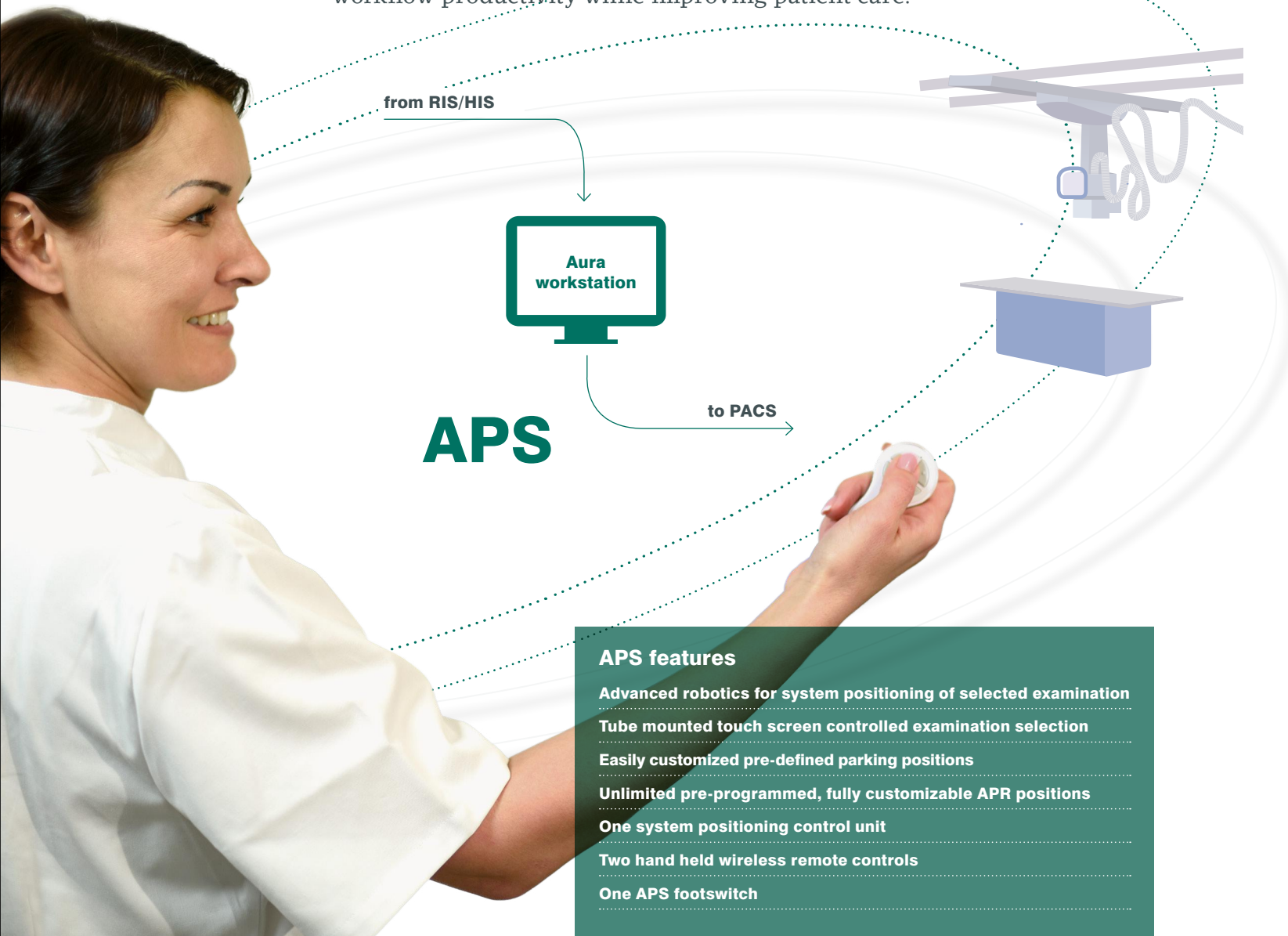


### Pediatric imaging solutions

The ddRAura's™ lightweight ergonomic design with its smooth operation makes it easy to position pediatric patients. The portable detector provides additional flexibility.

## 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 are automatically displayed. Swissray's advanced robotics position 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
- Tube mounted touch screen controlled examination selection
- Easily customized pre-defined parking positions
- Unlimited pre-programmed, fully customizable APR positions
- One system positioning control unit
- Two hand held wireless remote controls
- One APS footswitch

## Different configurations for different requirements

The ddRAura™ series is available in different configurations – fully automated, semi-automated or manual – with floor mounted tube stand – U-arm system – with multiple or single detectors. They can all be tailored to meet your workflow requirements and budget specifications.



### ddRAura™ OTC APS Fully automated ceiling suspension

Swissray's advanced robotics automatically positions the system for the selected examination with the push of a button. Precise synchronization and tracking between the OTC, wall stand and table bucky allow effortless system positioning.

### ddRAura™ OTC Manually positioned ceiling suspension

The manually positioned configuration features Swissray's FollowMe™ function for vertical tracking of the overhead tube to the wall stand and patient table, maintaining SID. Normal system movements and positioning can be conveniently controlled with just one hand thanks to the comfortable tube handle and free release. The ddRAura™ OTC can also be combined with a motorized wallstand allowing tracking of the wallstand to the ceiling suspension and enabling the manual stitching option.



### ddRAura™ Twin leg table

The ddRAura's™ premium twin leg table can be configured with the ddRAura™ OTC, ddRAura™ OTC APS or ddRAura™ FMTS. This table includes a larger table top, an extended longitudinal and horizontal float and an increased height adjustment range. The expanded size provides additional detector travel which is a great feature for supine stitching studies. The open dual leg design adds a clean and modern look to the ddRAura™. It includes easily positioned wireless foot pedals for floating and vertical movement.



## Advanced and affordable *workflow redefined*

The ddRAura™ FMTS is also available with a floor mounted tube stand.

This special configuration is perfect for smaller rooms or those without sufficient ceiling support. The manually positioned floor mounted tube support includes the same tube mounted touch screen interface and ddRAura™ workstation providing excellent image quality and workflow. 4-way fixed height or 6-way elevating options as well as the manual or optionally motorized wall stand include internal detector rotation and removable grids. Swissray's optional FollowMe™ feature provides tracking of the table and wall bucky for increased ease of use. As with the ddRAura™ OTC and ddRAura™ OTC APS any combination of fixed or wireless detectors offered are available.



### ddRAura™ FMTS features

- Multifunctional system for all radiography examinations
- Single or multi detector capability
- Effortless movements for precise positioning
- Exceptional low X-ray beam for standing exams
- Fits into small examination rooms



# Flexibility and Functionality *even faster workflow*

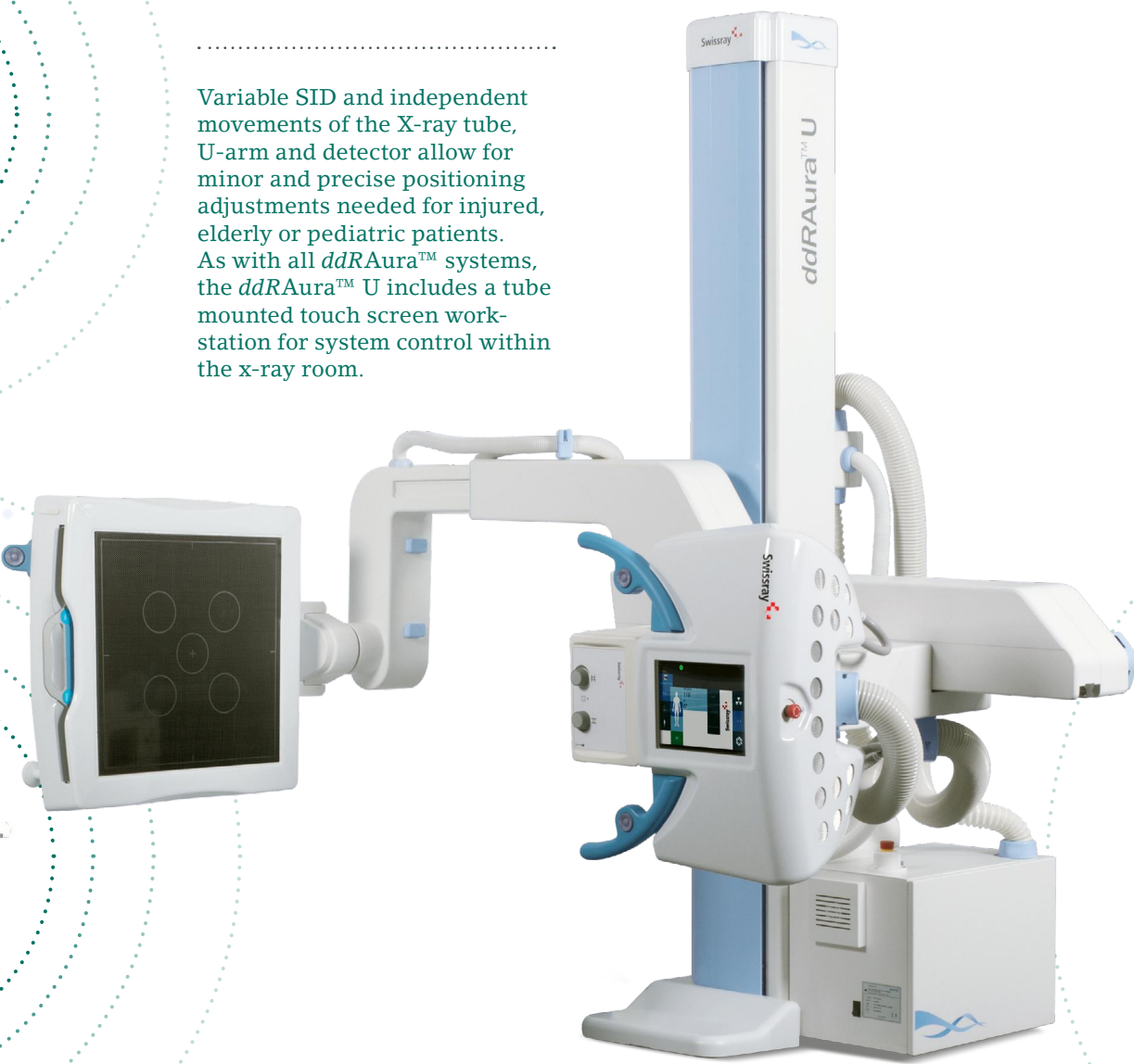
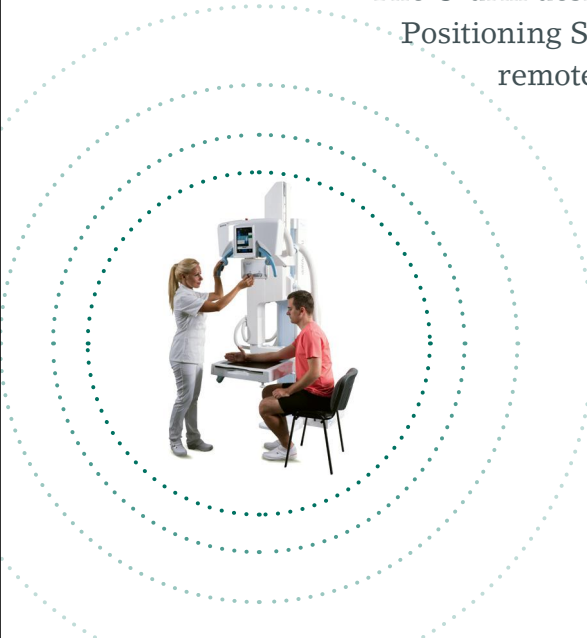
The ddRAura™ U is the perfect solution for busy radiology departments and imaging centers that have a need for speed. The U-arm design paired with Swissray's APS or Automatic Positioning System includes a small wireless hand held remote control and optional foot pedal for effortless positioning.

Variable SID and independent movements of the X-ray tube, U-arm and detector allow for minor and precise positioning adjustments needed for injured, elderly or pediatric patients. As with all ddRAura™ systems, the ddRAura™ U includes a tube mounted touch screen workstation for system control within the x-ray room.

The automated single focus stitching option combines multiple images into one image quickly and easily for scoliosis and leg length studies.

### ddRAura™ U features

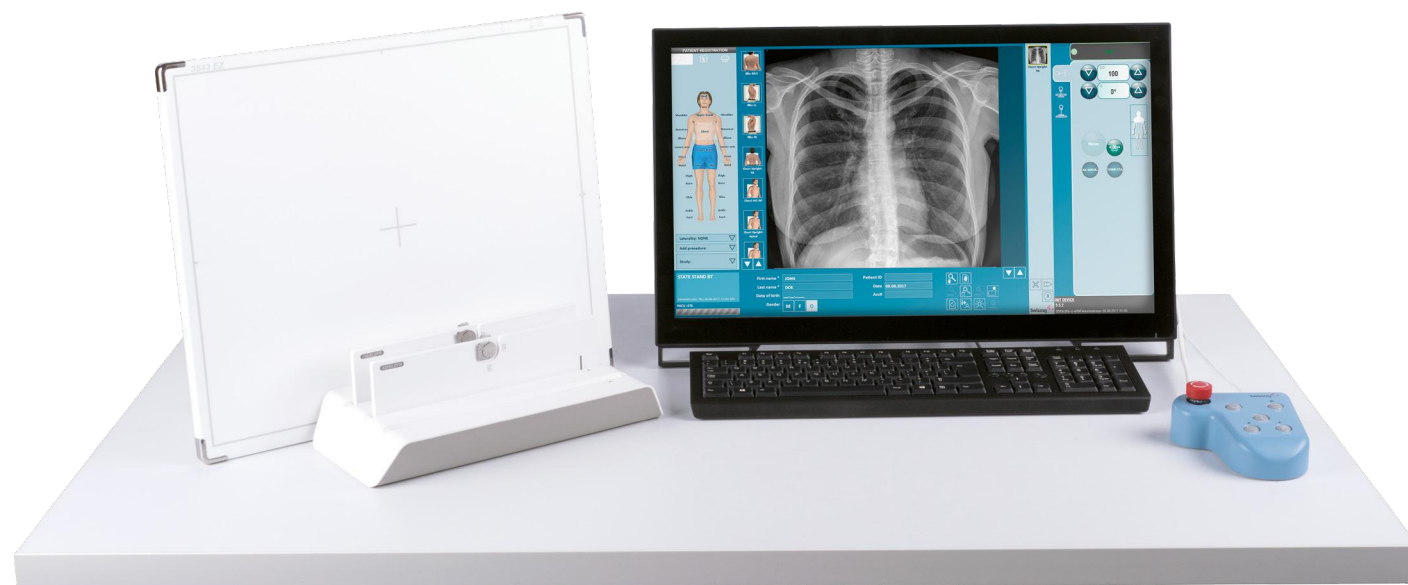
- Small footprint
- Unlimited automatic positioning
- Easily removable grid
- Tube mounted touch screen interface
- Wireless remote control or foot pedal
- Single focus stitching option
- Off detector/off center imaging capable



## Ultimate Digital Upgrade *affordable alternative*

The ddRAura™ DRive Kit converts existing analog or CR radiography systems into fully integrated digital radiography rooms, extending the life of the existing equipment while increasing productivity and reimbursement.

The ddRAura™ DRive kit is available with multiple flat panel detector configurations; both fixed and wireless, providing excellent image quality in a fraction of the time as compared with analog or CR based radiography.



### ddRAura™ DRive Kit features ▶

- 23 inch DICOM touch screen monitor
- ddRAura Workstation PC
- Image display in less than four seconds
- Fixed or wireless detector combination options
- Fully integrated DR workstation with generator control option
- Replacement wall stand or table bucky options

## Digital On the Move *portable productivity*

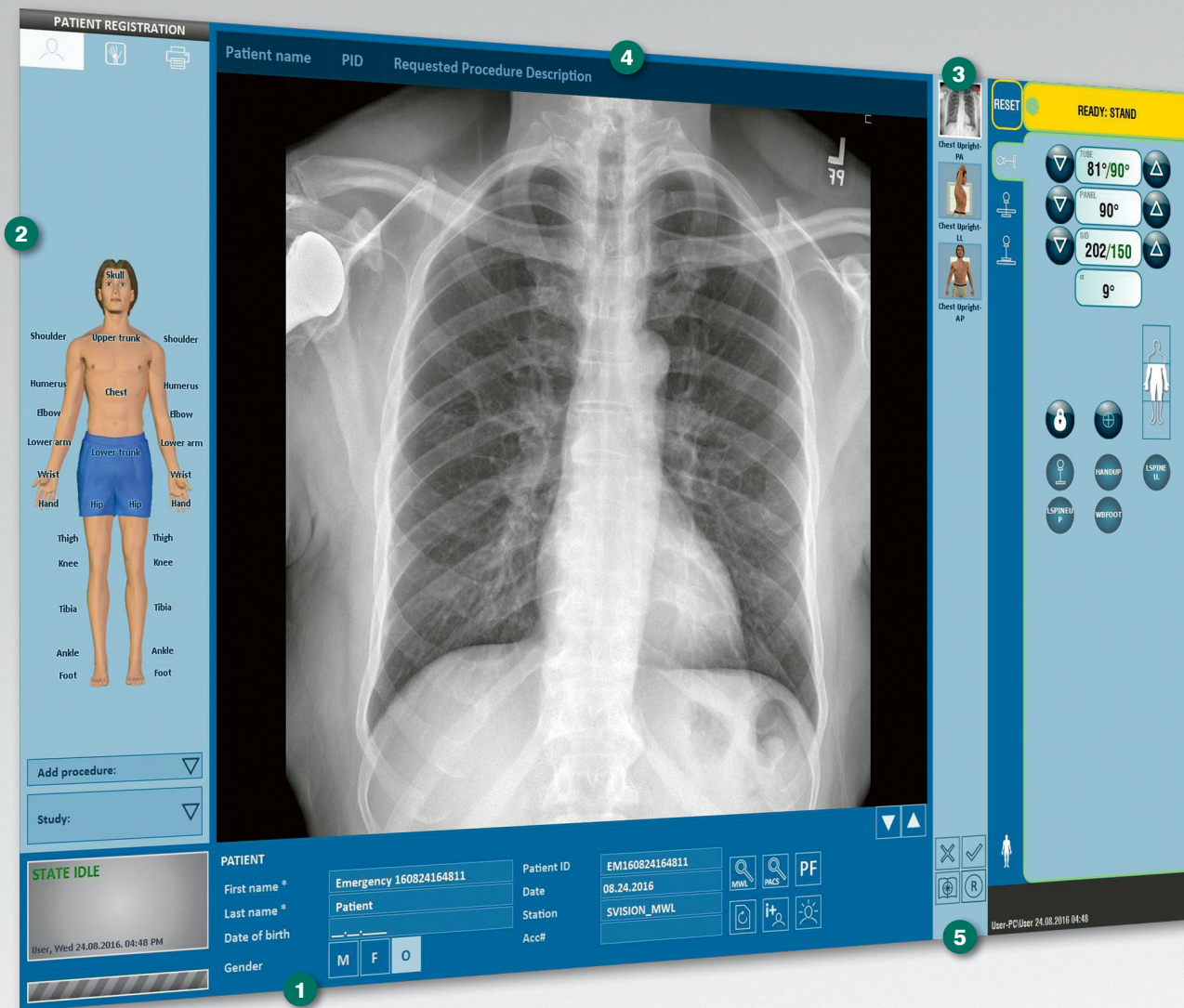
The lightweight and rugged ddRAura™ DRive Kit mobile tablet based workstation option provides even more flexibility for the technologist on the move. The tablet can be used with any analog room or mobile x-ray system utilizing the auto-detection functionality of the flat panel detector to any x-ray source. The tablet can also be docked and its software displayed on a full screen monitor.



### ▶ ddRAura™ DRive Kit features

- Medical grade windows OS tablet
- 10 inch touch screen display
- ddRAura user interface
- Under 2.2lbs (1 kg)
- Withstands drops of up to five feet
- Optional docking station and full screen monitor





## A user interface with a difference

The unique ddRAura™ user interface with an intuitive tube mounted touch screen control panel 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.

- 1 Patient Registration
- 2 Organ Selection
- 3 Procedure Mapping
- 4 Image Acquisition
- 5 Image Review and Transfer

### Workstation features ▶

- Intuitive and easy-to-use single desktop workstation
- Individual user login with assignable rights
- 23 inch DICOM monitor, optional touch screen
- Six preset generator settings per APR; Adult and Pediatric S,M,L
- Multi-language capability
- MPPS – Modality Performed Procedure Step DICOM functionality
- Procedure mapping
- DICOM MWL, Print, Store export to CD/DVD, export to USB
- Repeat/Reject analysis with exportable structured report

### ▶ Workstation features

- Exposure index/Deviation index
- Customizable auto-shutter
- Automatic storage and delete
- Image compression
- Crop, auto and manual rotate, annotations, pan, zoom and measure
- Automatic and manual image processing with undo/reload
- Optional manual or automatic stitching
- Service interface for system setting and detector calibrations



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

The *ddRAura™* OTC APS calculates the number of images, required angles, image overlap 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 either upright or supine. Swissray's stitching automatically or manually combines up to five images and displays the diagnostic full length stitched image. Orthopedic studies can be performed with greater precision, speed and patient comfort than ever before.



### Stitching setup

The tube mounted touch screen allows an easy stitching set up. The technologist positions the patient, rotates the tube to indicate the upper and lower image border and stores each value with one tap on the touch screen. The *ddRAura™* then calculates the acquisition requirements and allows the

technologist to acquire all images while pressing and holding the exposure button or by separate acquisitions and system movements allowing the technologist to repeat a single exposure if necessary. Up to five adjacent images are combined either automatically or with manual fiducial placement.



### Fixed X-ray source

The position of the X-ray source remains fixed with respect to the patient for all acquired images, reducing parallax and optimizing stitching accuracy. This ensures the overlap regions are geometrically equivalent, resulting in identical images of the anatomy to combine.



# ddRAura™ Series

## *Productivity meets versatility*

The ddRAura™ series is available in three configurable versions offering the choice and flexibility needed for any radiology department. All models provide optimal workflow and impeccable image quality at an affordable price.

Feature	ddRAura™ FMTS	ddRAura™ OTC	ddRAura™ OTC APS	ddRAura™ U
4 or 6 way table options	●	●	●	○
Mobile patient table option	○	○	○	●
Tube mounted touch screen	●	●	●	●
Ceiling suspended tube	○	●	●	○
Floor mounted tube	●	○	○	●
Automatic positioning via remote control	○	○	●	●
Vertical tracking tube crane	● OPTION	●	●	●
Vertical tracking wall stand	●	●	●	○
Manual or motorized tilting wall stand options	○	●	●	○
Table bucky tracking option	●	●	●	○
Ambient LED lighting	●	●	●	●
Signal LED lighting	○	○	●	●
Customizable fixed or wireless detector options	●	●	●	●
Auto-stitching option	○	○	●	●
Manual-stitching option	●	●	●	●



Distributed by

Swissray Medical AG reserves the right to make changes in specifications and/or to discontinue any product at any time without prior notice or obligation and will not be liable for any consequences resulting from the use of this publication. Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

© 2017 Swissray Medical AG  
All rights are reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright holder.

SHM\_49\_700\_002\_01\_EN

**Swissray Medical AG**

Turbistrasse 25–27  
6280 Hochdorf  
Switzerland

Phone + 41 41 914 12 12  
Fax + 41 41 914 12 13  
sales@swissray.com  
www.swissray.com

**Swissray International, Inc.**

31 Gordon Road  
Piscataway, NJ08854  
USA

Phone + 1 800 903 5543  
Fax + 1 908 353 1237  
info@swissray.com  
www.swissray.com

**Swissray Asia Healthcare Co., Ltd.**

7F, N° 87 Xinhua 1st Rd.  
Taipei City 114  
Taiwan (R.O.C.)

Phone + 886-2-8792-2699  
Fax + 886-2-8792-1898  
info.asia@swissray.com  
www.swissray.com

**Swissray** 