

RADspeed Pro

GENERAL RADIOGRAPHIC SYSTEM
EDGE package



High-Performance General Radiographic System Providing New Clinical Value



GENERAL RADIOGRAPHIC SYSTEM

RADspeed Pro

EDGE package



DR SYSTEM



DR-ID911SE
(17×17 inch, Csl)



DR-ID602SE
(17×17 inch, GOS)



DR-ID611SE/601SE
(14×17 inch, Csl/GOS)



DR-ID613SE
(24×30 cm, Csl)



DR-ID1202SE/1212SE
(17×17 inch, GOS/Csl)



DR-ID1201SE/1211SE
(17×14 inch, GOS/Csl)

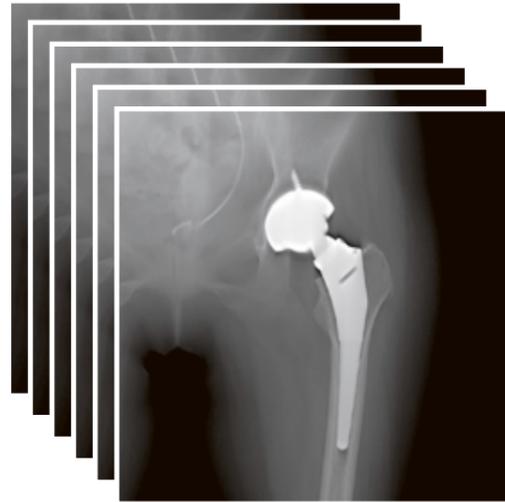


DR-ID1213SE
(24×30 cm, Csl)

Providing New Clinical Value

Tomosynthesis (Digital Multislice Tomography) option

Tomosynthesis is a new digital imaging technology that combines cone-beam CT reconstruction with digital image processing. It allows images of any cross section to be obtained easily from volume data acquired from a single tomographic scan. (Only with DR-ID911SE)



Tomosynthesis in the Standing Position



Tomosynthesis in the Supine Position

Flexible Examinations with Freedom in Choosing Body Positions

This allows images to be obtained with loads applied in the standing position, or in the supine position on a table. Consequently, it can be used to obtain images of the elbow or knee in the bent position, which is difficult using CT.

Tomosynthesis Radiography is Especially Useful for Orthopedic Areas

Tomosynthesis reconstruction method works to reduce artifact caused by metal object. This is useful for examinations when the patient has metal implant like post-surgery follow-up in orthopedic area.

Low Exposure Imaging

Tomosynthesis enables the imaging of multi-frame volume data with low dose exposures. Thanks to irradiation field size selection and collimation, X-ray exposure beyond the desired area can be suppressed even in imaging of the femur, so there is no excessive exposure.

Display of Oblique Cross Sections

Tilting the tomosynthesis cross section slightly from horizontal improves the visibility of spines, hip joints, and other areas that are not parallel to the tabletop.

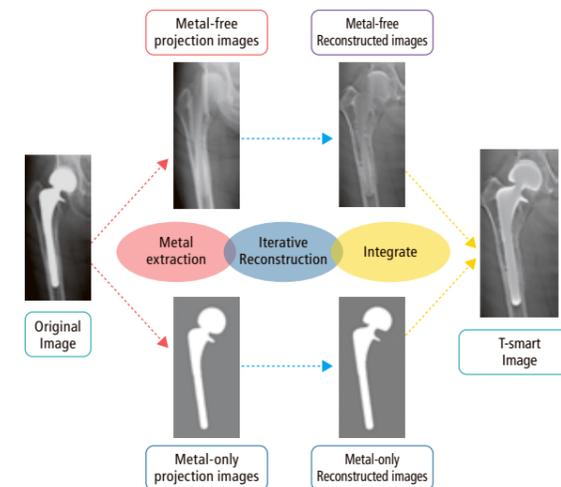


Captured volume data is sent to a dedicated workstation (Side Station RAD) in real time, where it is automatically reconstructed. The workstation allows reconstruction to be repeated with different parameters as many times as necessary. Using the imaging console allows transfer to the next imaging immediately after the data transfer is finished.

T-smart option

"T-smart" is our latest and highest grade tomosynthesis technology evolved further with iterative reconstruction method. T-smart automatically divides the original projection images into two projection image sets: metal-free projection images and metal-only projection images by using advanced metal extraction algorithm. Then, it performs iterative reconstruction to each of them, and finally integrates the two data in one. That is how "T-smart" image is provided.

(*) Tomosynthesis-Shimadzu Metal Artifact Reduction Technology



Metal Artifact Reduced Further

T-smart provides even clearer Tomosynthesis images suppressing the artifacts around metal objects even further. This application will be a great help in the orthopedics especially for the patients with metal implants or fixators, as it enables you to diagnose the status of the boundary between bone and implant very exactly.

High Image Quality with Low Noise

Since the reconstruction process is performed without filtering, it improves visibility of trabeculae, hairline fractures, and other details, even around metal objects, without accentuating noise. Consequently, this allows images to be viewed with even higher image quality.

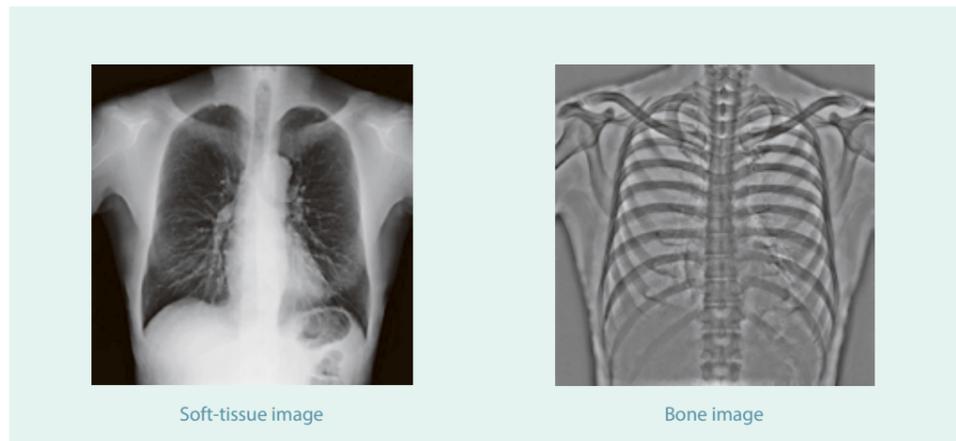
Speed Stitch (Auto stitching of long view images) option

The X-ray tube swings and the FPD moves automatically to capture image data. The captured image data is then automatically stitched together in the DR system. This makes it easy to create long images that extend across larger areas of the body in the anteroposterior direction.



Dual Energy Subtraction option

By taking successive high and low voltage images and applying a calculation process, soft-tissue images and bone images can be viewed separately. Shadows of nodes obscured by ribs can be rendered in soft-tissue images, or calcification can be rendered in bone images. (Only with DR-ID91 1SE)



Soft-tissue image

Bone image



Display Screen on the Computer for DR System Operation



Check Reference Images About One Second After Exposures

Reference images can be displayed a mere one second after exposure. The wireless FPD has no cables connected to it, so it can be kept clean even in infectious disease wards.

Never Replace a Cassette

This eliminates the stress caused to patients from changing cassettes. Without any worry of accidentally using the wrong cassette or having to read barcodes, like on IP systems, radiography can be performed for a large number of patients quickly.

Light, easy-to-handle wireless FPD

Significant weight reductions have been achieved, with the 14 x 17 inch model now weighing just 2.6 kg. (DR-ID1201SE/1211SE only)
The FPD can be positioned quickly with no concerns about its weight.

Excellent waterproofing

The FPDs conform to the IPX6 waterproofing standard, to prevent ingress by liquids. (note1)

Automatically Linked Radiography X-Ray Exposure Field option

The collimator X-ray exposure field is automatically linked to the exposure area size selected in the DR system.

Verify the Patient Name in the Examination Room option

The patient name and ID number registered in the DR system are displayed on the X-ray tube support, which makes it easy to verify patient information.

Robust design with a 310 kg load bearing capacity

The proprietary design is lightweight, but has a full load bearing capacity of 310 kg. (note2)

Highly antibacterial

The FPDs are highly antibacterial and feature clean, dirt-resistant designs. (note1)

Note1 : DR-ID1202SE/1212SE/1201SE/1211SE/1213SE only
Note2 : DR-ID1202SE/1212SE/1201SE/1211SE/1213SE/
911SE and DR-ID613 only

Sophisticated Functionality Makes It Even Easier to Operate

Revolutionary Auto-Positioning Feature Allows the Operator to Focus On Patient Care option

The auto-positioning feature is interlocked with the APRs. This function moves the ceiling-mounted X-ray tube support to any desired position at the press of a single button and can automatically set the X-ray tube angle. Effortless tube positioning allows the operator to focus on patient care. Naturally, manual operation is also possible to make fine positioning corrections extremely simple.



Optional automatic rotation around the X-ray tube support axis is also available.

Pressing a single button on the remote control smoothly moves the ceiling-mounted X-ray tube support to pre-registered positions. Movement stops immediately after the remote control button is released. Up to two remote control units can be used.

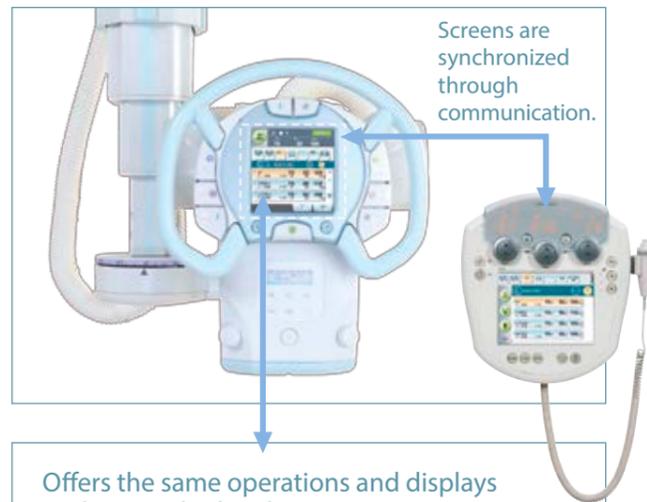


Radiography Can Also Be Performed Using a Foot Switch

Operators can perform radiography using a foot switch even when they are standing next to a child or elderly patient.

APRs Synchronized with the X-Ray High Voltage Generator

Radiography parameters can be changed beside the patient as well as on the wall-mounted console in the control room. The operator can prepare for radiography without leaving the patient. This sophisticated synchronization of the X-ray tube support and X-ray high voltage generator effectively exploits the convenience of dual consoles.



Offers the same operations and displays as the X-ray high voltage generator.



Examination Regions: max 10 regions
Radiography Methods: max 20 methods
Exposure Directions: 7 directions

New energy saving collimator with a bright irradiation field

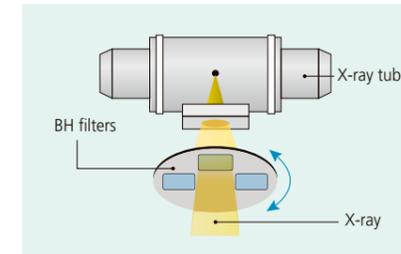
LEDs have been adopted as the light source to indicate the irradiation field. This reduces power consumption while improving brightness levels and durability.

New Ways to Reduce Patient Exposure

Realizing Our Commitment to Reducing Patient Exposure

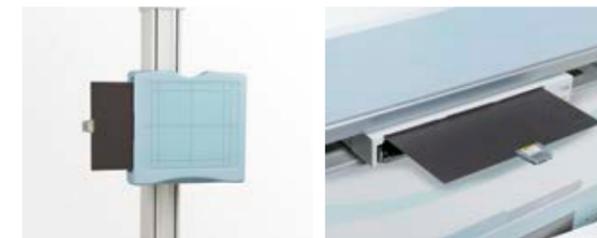
Auto-Filtering Feature Automatically Switches to the Optimal Filter for Each Selected Protocol

Select a protocol to suit the type of examination, and the filter in the collimator will change in accordance with the protocol. This ensures the correct filter is always automatically selected.



Removable Grid

Remove the grid during pediatric radiography to reduce patient exposure. The type of grid inserted is displayed on the integrated console and on the LCD on the ceiling-mounted X-ray tube support.



Dose Area Product

For dose monitoring, a Calculated Dose is available. After the exposure, the calculated dose, based on the actual exposure parameters, is displayed.

The resulting exposure parameters and calculated dose are displayed and can be sent to the RIS/PACS system.

Note) The calculated dose is not available if the DAP meter is optioned.



Configuration

X-Ray Tube Support

CH-200



Automatically follows changes in table height



"Lock release buttons" on rear of tube suspension

Bucky Table

BK-200



Manual Operation

Auto Synchronization

Bucky Unit

Bucky Stand

BR-120/BR-120T



BR-120



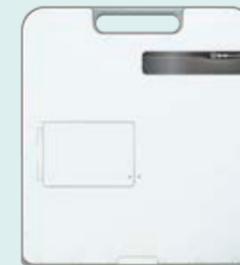
BR-120T

X-Ray High-Voltage Generator

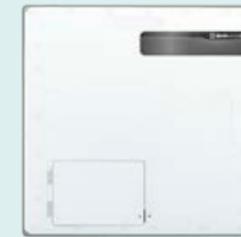
UD150B-40/V-40/L-40



DR System



DR-ID911SE (Note2)
(17×17 inch, Csl)



DR-ID602SE
(17×17 inch, GOS)



DR-ID601SE/611SE
(14×17 inch, GOS/Csl)



DR-ID613SE
(24×30 cm, Csl)



DR-ID1202SE/1212SE
(17×17 inch, GOS/Csl)



DR-ID1201SE/1211SE
(17×14 inch, GOS/Csl)



DR-ID1213SE
(24×30 cm, Csl)

Note 1: Of the recommended DR systems, the DR-ID613SE and 1213SE cannot be installed in the Bucky stand or the Bucky table.

Note 2: If the DR-ID911SE is used in combination with a Bucky stand or Bucky table, then the FPD unit cannot be replaced with DR-ID602SE/601SE/611SE/1202SE/1212SE/1201SE/1211SE.

Founded in 1875, Shimadzu Corporation, a leader in the development of advanced technologies, has a distinguished history of innovation built on the foundation of contributing to society through science and technology. We maintain a global network of sales, service, technical support and applications centers on six continents, and have established long-term relationships with a host of highly trained distributors located in over 100 countries. For information about Shimadzu, and to contact your local office, please visit our Web site at www.shimadzu.com



Shimadzu Corporation

Headquarters

1, Nishinokyo-Kuwabara-cho, Nakagyo-ku, Kyoto 604-8511, Japan
<http://www.shimadzu.com>



Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2008 Quality Management Systems and ISO13485:2003 Medical Devices Quality Management Systems.

Remarks:

- Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- The appearances and specifications are subject to change for reasons of improvement without notice.
- Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
- Before operating this system, you should first thoroughly review the Instruction Manual.