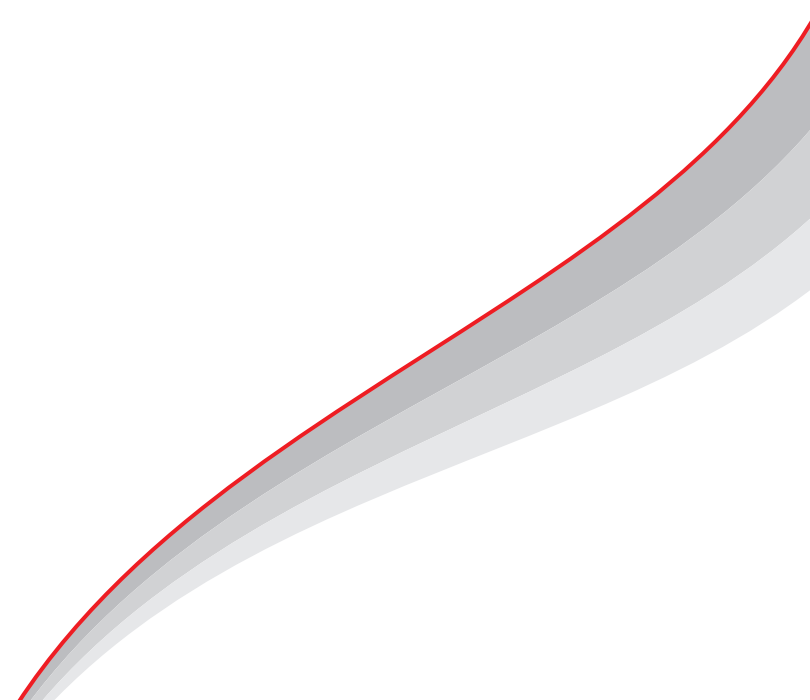


# RADspeed Pro

SR5 Version combined with DR system



# Empowering Your Vision

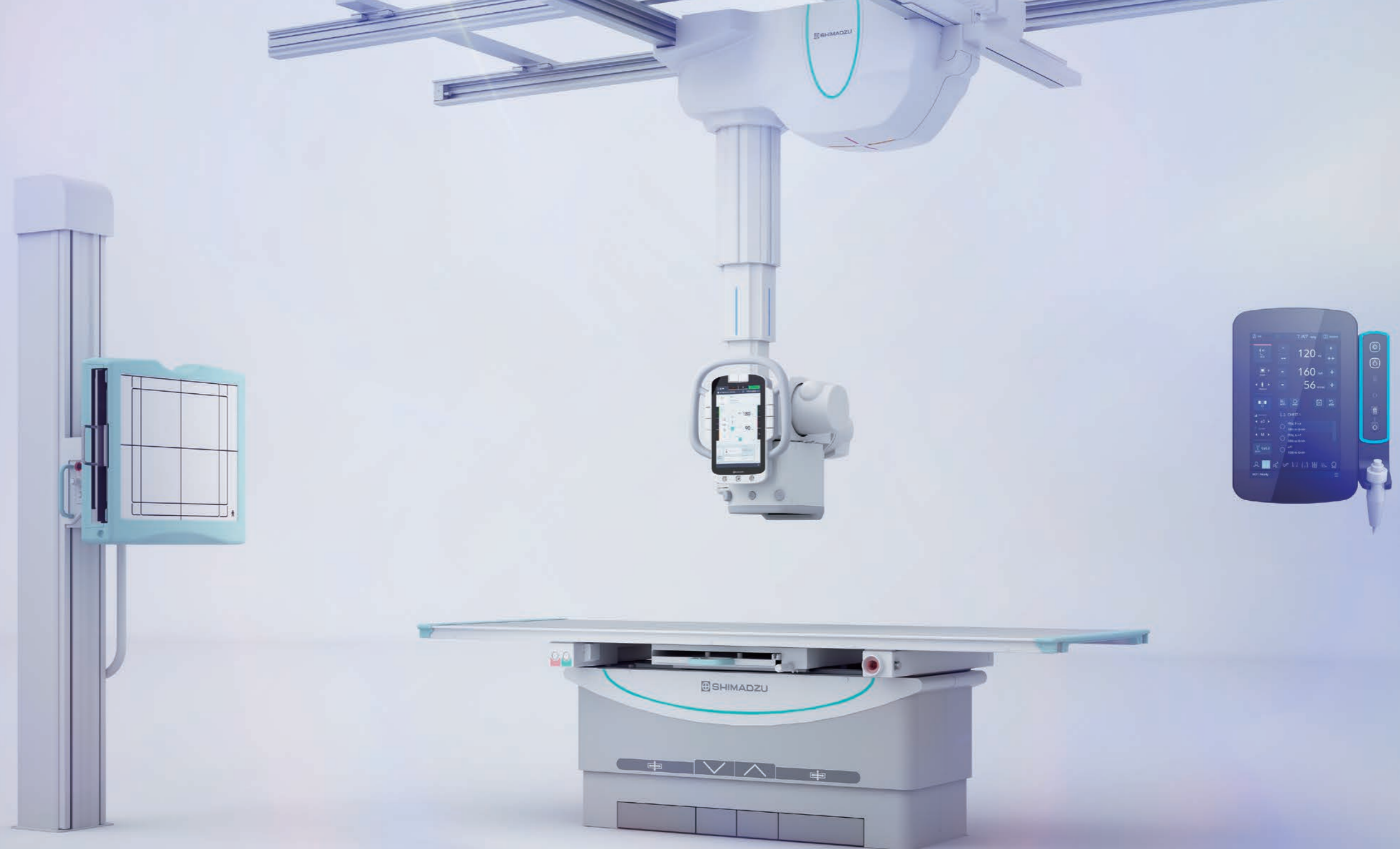
## RADspeed Pro™

SR5 Version combined with DR system

**All visions are designed for achieving a better examination environment.**

Increasing examination efficiency by standing closer to patients and reducing the burden on medical personnel. Shimadzu offers various solutions for achieving easy-to-use and comfortable examination environments that address the challenges and needs of a wide variety of healthcare situations.

Scan me, >



# Vision for Patient Concentration

Optical Camera Application Creates an Environment Where Medical Personnel can Focus on Patients OPTION



The Vision Reflects New Possibilities

## VISION SUPPORT

The video image from a camera built into the collimator is displayed on the X-ray tube support control panel and high-voltage generator control panel monitors. The optical camera application provides an environment where medical personnel can focus on patient care.

Reduces Positioning Effort and Improves Accuracy

### Live View Display

Scan me, >



Supports accurate positioning by showing overlay of detector area, irradiation field and AEC pickup fields\*, which are difficult to check directly.

\*Guide line overlay is for reference only.  
\*AEC pickup fields overlay is not available in the United States.

Reduces Frequency of Repeating Exposures due to Body Movement

### Motion Detection

Scan me, >



Patient body movement can be confirmed from the point that body movement detection mode is activated.\*

\*Check the patient's condition, even directly visually.

Better Workflow and Personalized Dose Management by Fine-tuning the Collimation

### Remote Collimation



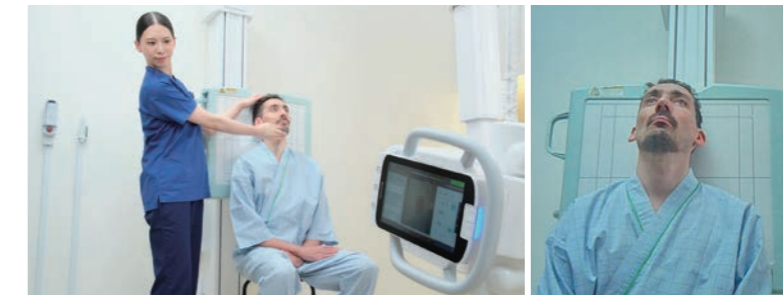
Collimation adjustment from the control room via live view on the generator console with a remote controller will improve workflow and personalized dose management.\*

\*Auto-Positioning Feature(option) is required

Smoother Positioning Correction during Repeated Exposures

### Last Position Display

Scan me, >



By checking the immediately previous exposure positioning, positioning can be achieved more smoothly when repeating exposures.



# Vision for Easy Operation



## Innovations that Improve Operability

Healthcare requires multiple complex tasks. To support this hectic work, it is essential to achieve an examination environment that contributes to diagnosing patients, while also ensuring simple and intuitive operability. Shimadzu offers systems optimized for usability.

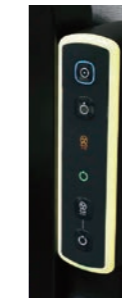


## Illumination Improves Visibility

Illumination of the X-ray high-voltage generator and ceiling-mounted X-ray tube support enables better understanding of the instrument status. In addition, the hand switch illuminates to indicate the system is ready for the next exposure.



Ready up



Exposure



Ready up



Exposure



## Lower Hand Grip

A hand grip is provided on the back side at the bottom of the control panel, and operation is possible by pressing the all-free switch on the front side. Operation is easy even when the X-ray tube support is located in a high position.



## Graphic Display of Unlock Buttons

Graphic unlock buttons enable more intuitive operability by displaying button symbols with the unlock direction oriented to match the perspective of the operator in either supine or standing positions.





# Vision for Reduction of Operator Burden

## Power Assist Function Supports Positioning

### Superb operability Power Assist Function OPTION

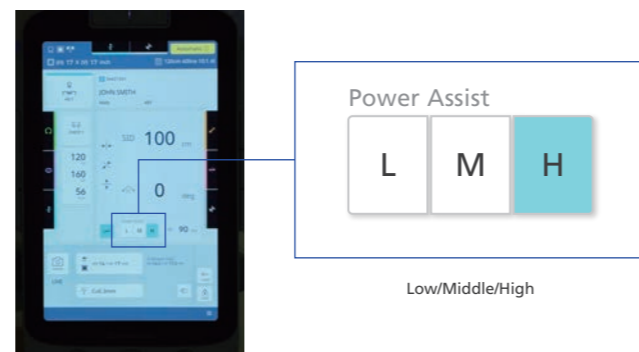
 POWER GLIDE function

Motors assist handle operations. This reduces the burden on operators during movements by enabling the ceiling-mounted X-ray tube support to be moved quickly and lightly.



## Change Assist Levels with One Touch

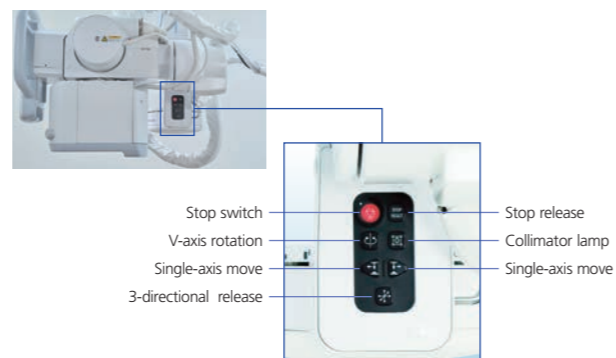
Large movements can be made quickly with lighter force, and precision movements can be made for detailed positioning.



## Convenient Rear Switch on the Support Column

The rear switch on the column of the ceiling-mounted X-ray tube support is useful for positioning from the rear side.

(The image below shows the system in combination with the power assist function.)



## Five-Axis (Max.) Auto-Positioning Feature Allows the Operator to Focus on Patient Care OPTION

The X-ray tube support can be moved by remote control. This enables smooth positioning while observing the patient.



## Wireless Remote Controller for Automatic Positioning

An infrared wireless remote controller is used to prevent cable interference. In addition to instrument movements, it can also control the collimator. Actions immediately stop when the remote control operations are stopped.





# Vision for High Throughput



## Achieves Efficient Workflow

Use it to perform examinations smoothly, while relieving patient anxiety. To achieve both, a system is required that can shorten examination times while ensuring safety. Shimadzu supports efficient examination process flows for front-line healthcare workplaces.



### Speed Stitch (Auto Stitching of long view images) OPTION

The system automatically swivels the X-ray tube and moves the FPD to capture images. The captured image data is then automatically stitched together in the DR system. That makes it easy to create images that are wide along the longitudinal direction of the body.\*

\*This functionality is available for systems that combine a Shimadzu BR-120 or BR-120T Bucky stand and a BK-200 Bucky table with a DR system from other manufacturers. For information about compatible DR systems, please contact your sales representative.

Scan me, >  
Setting



Scan me, >  
Speed Stitch



### Wireless Exposure Switch OPTION

A Bluetooth wireless hand switch enables freely acquiring images from any position in the control room.\*

\*Availability of the option depends on the regional regulation. Please contact your sales representative regarding the availability.



Ready up



Exposure



### 600 kHU High Capacity X-Ray Tube OPTION

Because only 0.8 seconds is required to prepare for exposures after pressing the exposure button, images can be acquired quickly, even for patients with difficulty holding their breath or holding a particular body position. The X-ray tube anode starts high-speed rotation when the collimator lamp is illuminated.



## Vision for New Clinical Value

### Combination with DR system Capability Offers New Clinical Value

#### 99µm Glass-free FPD OPTION

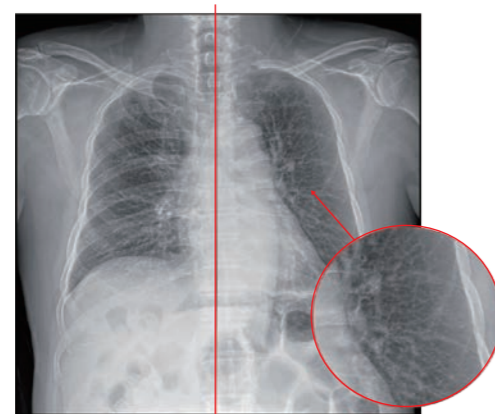
The advanced Glass-Free detectors provide superior images at low dose rates. The ergonomic design ensures mobility, and its robust construction offers durability with drop resistance, a 400kg load capacity, and IP67 resistance.



99µm Glass-free FPD

#### Bone Suppression OPTION

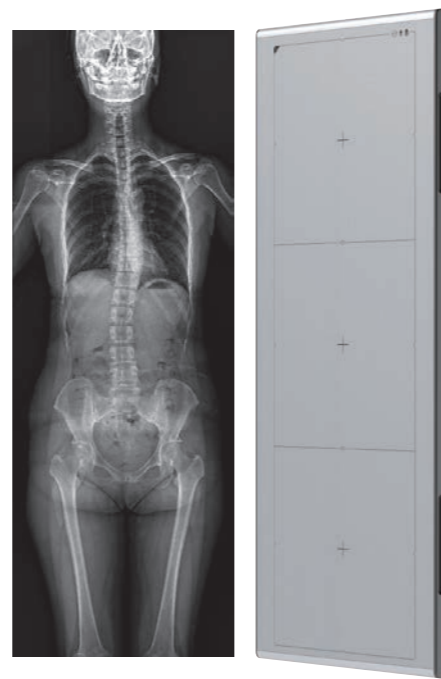
Achieve diagnostic precision effortlessly with Bone Suppression—a solution that swiftly unveils soft tissues by suppressing ribs and clavicles within the lung field. This feature delivers a clear, suppressed image, prioritizing patient care by acquiring images without additional exposure.



Left: Original Image Right: Bone Suppressed Image

#### One Shot Scoliosis Imaging OPTION

The 17 x 51 inches long format FPD makes it possible to perform scoliosis examinations with a single exposure therefore minimize the effect of motion artifact. Quick and accurate long view imaging can meet the needs of examinations for scoliosis patients.



17 x 51 inch Long View One Shot FPD

## Vision for Patient Care



### Patient Care in Physical Form



#### Rubber Cushioning for Extra Safety

The bottom of the X-ray tube support and the perimeter of the collimator radiation port are covered with soft rubber cushioning material. That tenderly protects patients by reducing their risk of injury from unexpectedly sitting up after exposures have been taken in the supine position and hitting their head on the instrument.



#### Collimator Achieves Lower Exposure Levels

An automatic filter function is included that automatically switches the filter coupled with the collimator when the APR mode is selected based on the exposure area. Four filter modes can be preset (0.1, 0.2, or 0.3 mm thick copper or no filter).



#### Check Patient Information in the Examination Room OPTION

Patient information can be displayed on the X-ray tube support. This ensures patients can be smoothly identified in the examination room.

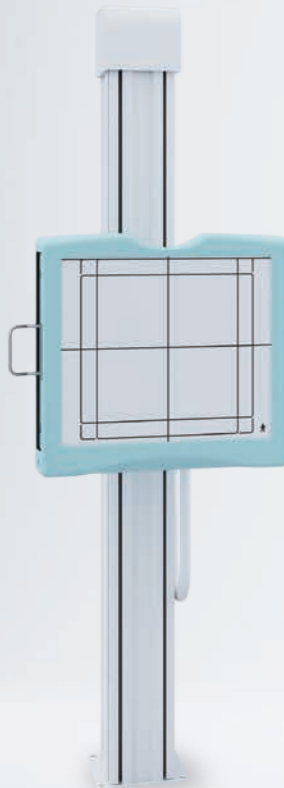


# System

## X-Ray Tube Support

### CH-200

- Vertical travel: 1600 mm
- Longitudinal travel: 2950 mm (with a 4 m fixed rail)
- Transverse travel: 1400 mm (with a 2 m travelling rail)
- Vertical tracking **OPTION**
- Bucky tracking **OPTION**
- Longitudinal or lateral SID display
- Power assist function **OPTION**
- Auto Positioning **OPTION**
- Tractable cable management system **OPTION**



## Bucky Stand

### BR-120/ BR-120T

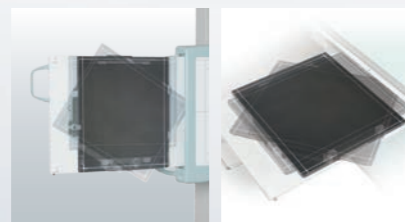
- Supports Vertical tracking and Auto collimation **OPTION**
- Supports Long View Radiography Function **OPTION**
- Grid is removable
- Equipped with a tilting Bucky unit (BR-120T)



## Bucky Table

### BK-200

- Table elevation tracking function when combined with X-ray tube support CH-200 **OPTION**
- Supports Long View Radiography Function **OPTION**
- Maximum allowable load: 295 kg
- Distance between tabletop and floor: 535 ~ 850 mm
- Flat CFRP-tabletop **OPTION**
- Grid is removable
- Bucky tracking device **OPTION**



## FPD Rotation Tray

The FPD tray can be rotated 90 degree to change the orientation of FPD.

## Tractable Cable Management System



## RC-300

- Auto Collimator
- Auto filter
- (None / Cu 0.1 mm / 0.2 mm / 0.3 mm)

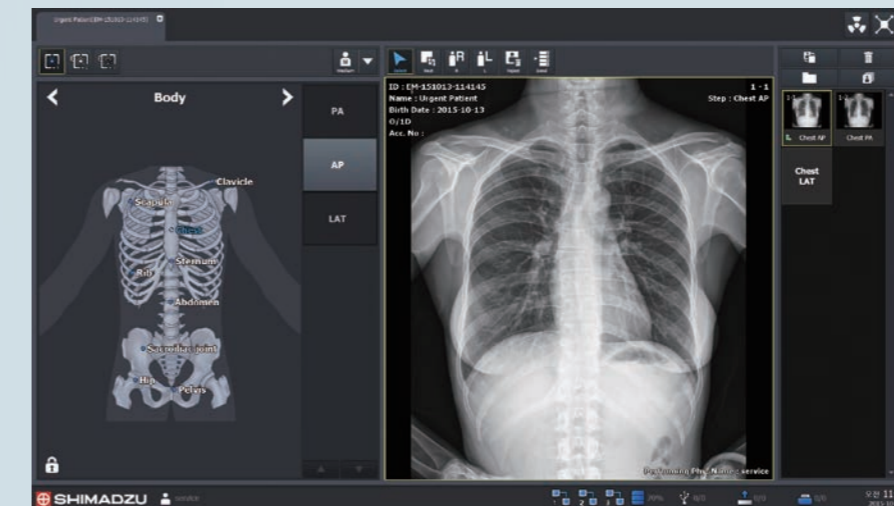


## X-Ray High-Voltage Generator

### 80 kW / 65 kW / 50 kW

- Newly designed touch screen display
- Multi-color illumination
- Communication with CH-200 display
- Automatic exposure control
- Self diagnostic function with display of error codes
- 80, 65 and 50 kW output selection

# DR System (recommended FPD)



99 µm Glass-Free model



Versatile model



17 x 51 inch size

Model	99 µm Glass-Free model			Versatile model			Long-format model
	10 x 12 inch	14 x 17 inch	17 x 17 inch	10 x 12 inch	14 x 17 inch	17 x 17 inch	
Size	10 x 12 inch	14 x 17 inch	17 x 17 inch	10 x 12 inch	14 x 17 inch	17 x 17 inch	17 x 51 inch
Scintillator	CsI						GOS
Pixel pitch	99 µm	99 µm	99 µm	124 µm	140 µm	140 µm	140 µm
Weight	1.7 kg*1	2.4 kg*1	2.95 kg*1	1.95 kg*1	2.95 kg*1	3.45 kg*1	19.7 kg*1
Dustproof/Waterproof	IP67						-

\*The lineup of FPDs that can be combined is information as of April 2024. Please contact your sales representative for details.  
\*1 Single Battery pack is included.



Label Description: RADspeed Pro

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 website at [www.shimadzu.com](http://www.shimadzu.com)



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Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

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