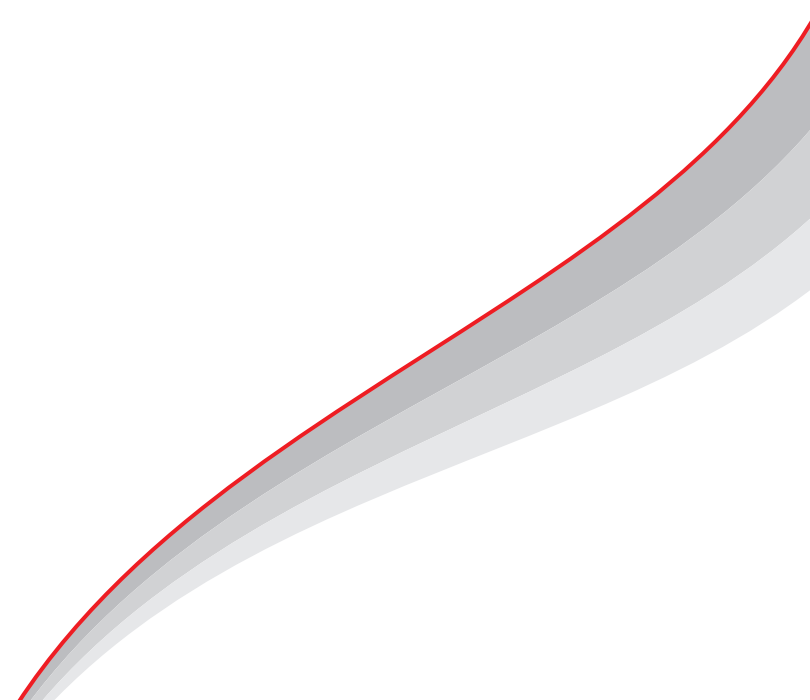


# RADspeed Pro

SR5 Version with CXDI



# Empowering Your Vision

## RADspeed Pro™ SR5 Version with CXDI

**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.



# 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



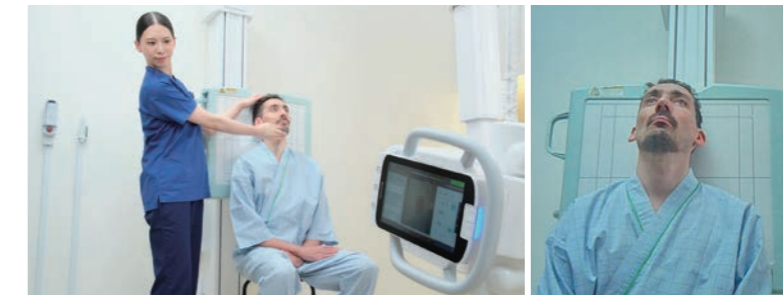
Collimation adjustment from the control room via live view on the generator console with a remote controller will improve workflow and personalized dose management.\*

\*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.

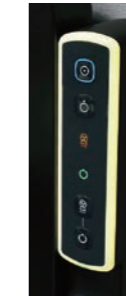


## Illumination Improves Visibility

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

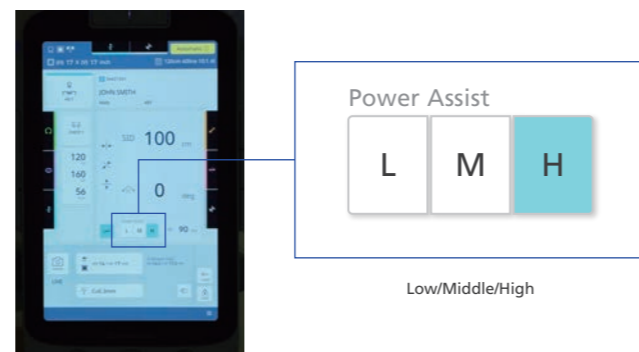
Motors assist handle operations. This reduces the burden on operators during movements by enabling the ceiling-mounted X-ray tube support to be moved quickly and lightly.

 **POWER GLIDE** function



## Change Assist Levels with One Touch

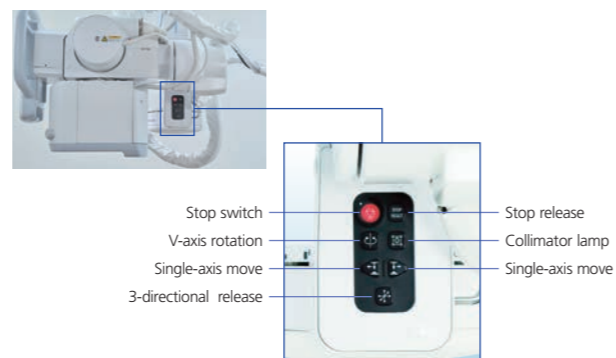
Large movements can be made quickly with lighter force, and precision movements can be made for detailed positioning.



## 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

### Camera Assist OPTION

During patient positioning, the DR system displays the video image and analyzes it to compare with the selected protocol, thus reducing positioning errors.\*1

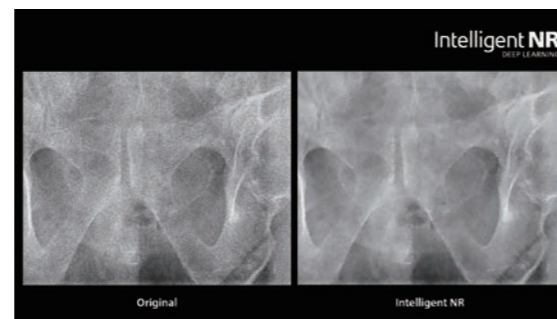
Scan me, >



\*1 Only available for systems configured with CXDI-NE. Please contact your sales representative regarding the availability. Available when VISION SUPPORT is selected.

### Intelligent NR OPTION

Intelligent NR is an advanced image processing technology that delivers superb image quality for an optimal diagnostic environment. Utilizing deep learning technology, the DR system brings conventional noise reduction to the next level and provides high quality image at low dose rates.\*2



\*2 Please contact your sales representative regarding the availability. \*Intelligent NR™ uses AI technology in the design stage of noise reduction processing, and this system itself does not have a self-learning function.

### Built-in AEC Assistance OPTION

The FPD is equipped with Automatic Exposure Control (AEC) assistance to support dose reduction during examinations that require free positioning, such as for patients brought in on a bed.\*3

\*3 Only available for systems configured with CXDI-Elite. Please contact your sales representative regarding the availability. This function is supported only for use outside Bucky table and Bucky stand.

# Vision for Patient Care



### 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.

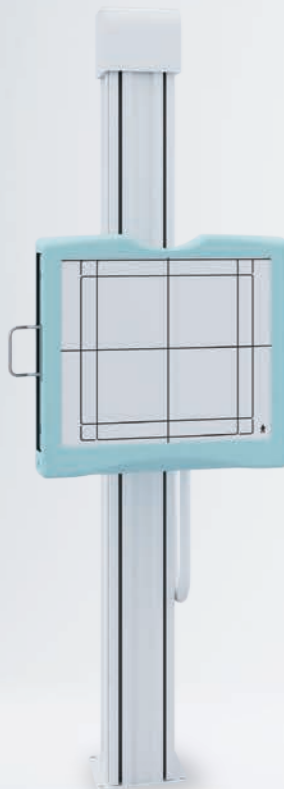


# System

## 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

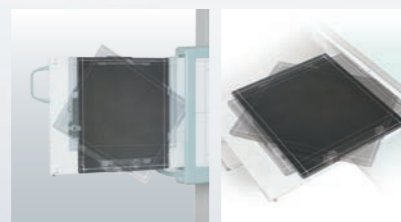
- Supports Vertical tracking and Auto collimation **OPTION**
- Supports Long View Radiography Function **OPTION**
- Grid is removable
- Equipped with a tilting Bucky unit (BR-120T)



## 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 **OPTION**



## RC-300

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

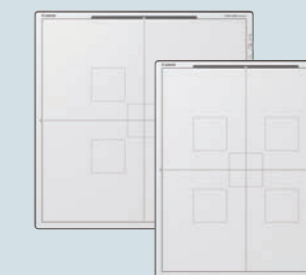
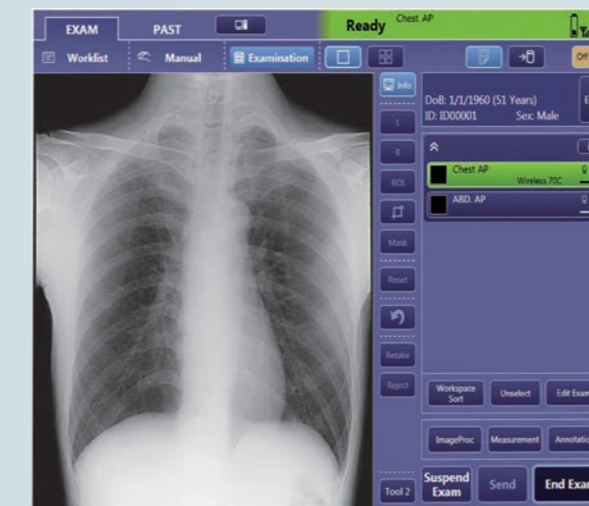


## X-Ray High-Voltage Generator

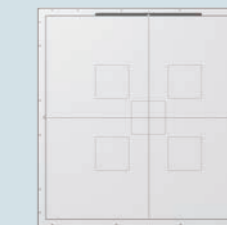
### 80 kW / 65 kW / 50 kW

- 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 (CXDI series: recommended FPD)



CXDI-420C  
CXDI-720C  
Wireless



CXDI-420C  
fixed



CXDI-403C  
CXDI-703C  
Wireless

Model	CXDI-420C Wireless	CXDI-720C Wireless	CXDI-420C fixed	CXDI-403C Wireless	CXDI-703C Wireless
Size	17 x 17 inch	14 x 17 inch	17 x 17 inch	17 x 17 inch	14 x 17 inch
Scintillator	CsI				
Pixel pitch	125 μm			140 μm	140 μm
Weight	2.7 kg	2.3 kg	-	3.5 kg	2.9 kg
Dustproof/Waterproof	IP57-rated	IP57-rated	-	IP55-rated	IP55-rated

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



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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