

RADspeed Pro **style edition**

Automatic



High-Performance General Radiographic System Improves Workflow and Achieves Dose Reduction

RADspeed Pro **style edition** Automatic

This state-of-the-art automatic general radiographic system is based on the extensive experience and expertise Shimadzu cultivated as a pioneer in medical diagnostic imaging systems. It minimizes X-ray dose and improves examination workflow.

Available only from Shimadzu, this system utilizes the latest technologies that are gentler to humans and provide a more comfortable examination environment for both the patient and the operator.



Recommended DR system



CXDI-410C
Wireless



CXDI-710C
Wireless



CXDI-810C
Wireless



CXDI-401C/G
Wireless

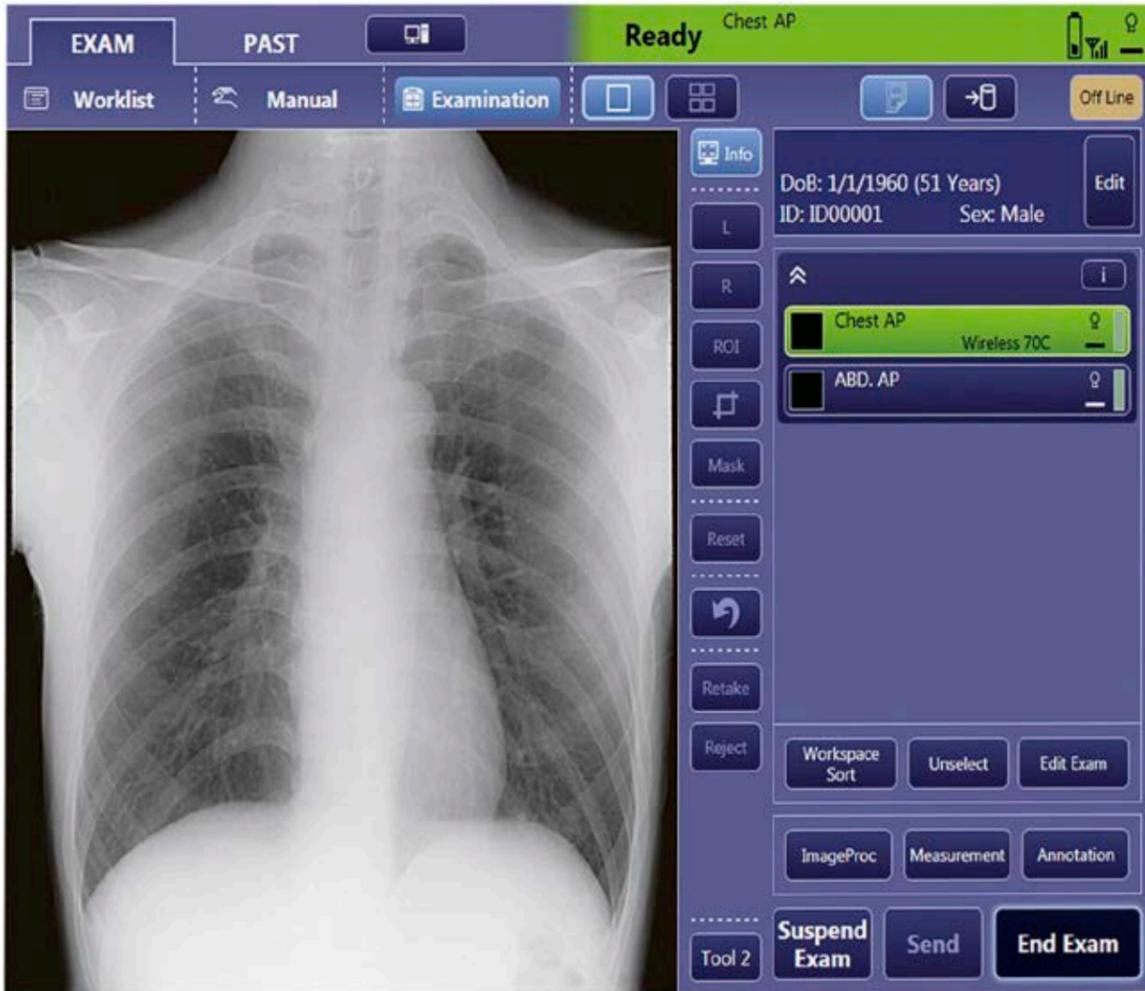


CXDI-701C/G
Wireless



CXDI-801C/G
Wireless

Experience New Clinical Value with Innovative DR System



Check Reference Images About Three Seconds After Exposures

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

Excellent waterproofing

The FPDs conform to the IPX7 waterproofing standard, to prevent ingress by liquids. (CDXI-410C/710C/810C only)

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.

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. (Except CXDI-810C, CXDI-801C/G)



Sophisticated Synchronization Functions Make System Operation Even Easier

Advanced X-Ray Tube Support Allows Efficient System Operation

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.



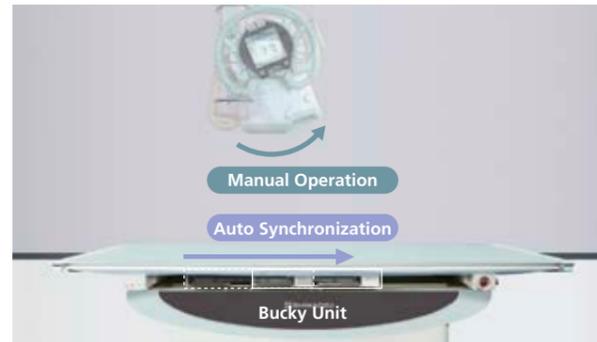
APRs Synchronized with the X-Ray High Voltage Generator

Radiography parameters and techniques 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.



BK-200 Bucky Unit Automatically Follows Irradiation OPTION

Easily synchronize the longitudinal travel of the table's Bucky unit with the X-ray tube support position. In addition, for oblique radiography, the X-ray field can be controlled according to the APR. Synchronization between the X-ray field and Bucky unit provides fast positioning even for complex orthopedic positioning.



Synchronized Vertical Movements of X-Ray Tube Unit and Bucky Unit OPTION

The focal point of the X-ray tube unit moves up and down in conjunction with the vertical positioning of the X-ray Bucky stand and X-ray Bucky table. This allows the operator to attend the patient in a standing position while positioning the equipment. For a table study, the X-ray tube automatically moves to a preset SID, enabling accurate and fast positioning.



Orderly Cable Management OPTION

Shimadzu provides a tractable cable management system along the ceiling rails that supports smooth positioning.

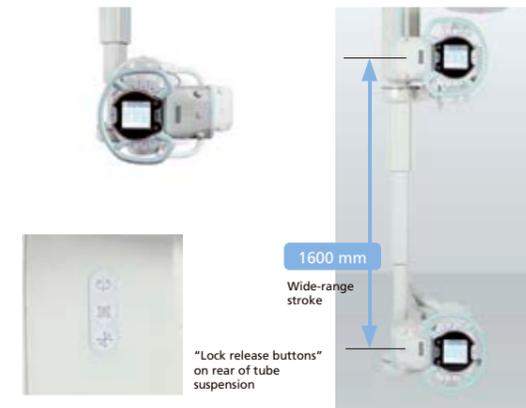


Our Caring Subtle Improvements Make Your Operation Even Easier

Extensive Functionality Matched to the Needs of Various Clinical Applications

Ceiling-Mounted X-Ray Tube Support for Versatile Positioning

X-ray tube support vertical range of 1,600 mm ensures sufficient SID when examining supine patients and low focal point radiography of standing patients. This support also rotates on the vertical and horizontal axis in addition to fixed positioning at any desired angle, enabling fast positioning at complex angles for orthopedic applications.



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

When the APR is selected for the region being imaged, the collimator filter also switches. Using the filter preset for each APR, such as the extremities or abdomen, minimizes unnecessary exposure to obtain high-quality radiographic images at the optimal X-ray dose.



Confirm The Irradiation Field Clearly with LED Light

Newly accommodated LED light indicates the irradiation field more clearly. The long-life LED reduces replacement frequency.

Easily Attach Line Marker to Collimator OPTION

Red laser mark clearly indicates center of the radiation field.

Click-Stop Collimator Rotation OPTION

When rotating the collimator relative to the X-ray tube, the collimator can be click-stopped in 3 positions, 0 degrees and ± 45 degrees, allowing quick adjustment of collimation. (The collimator can also be quickly returned to the original (0°) position.)

Cushioning Gently Protects Patients

If a patient suddenly sits up after an examination, they could potentially hit their head on the instrument. Therefore, the bottom of the X-ray tube support is covered with rubber cushioning material to carefully protect patient.



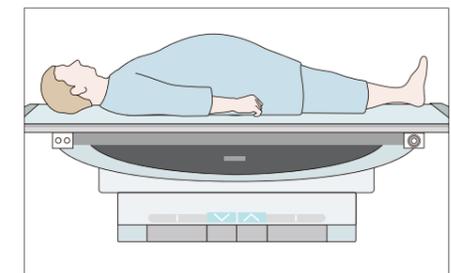
Bucky Stand and Table Grids Are Removable

Removing the grid during radiography allows reducing the exposure dose level in pediatric and orthopedic applications. Radiography is also possible using a phototimer.

Design Concept Pursues Durability

The Bucky table can support 295 kg (650 lbs). The ceiling-traversing overhead X-ray tube crane coupled with the Bucky device ensures easy operation and features a highly rigid construction and a durable shock-absorption mechanism. RADspeed Pro is a high-reliability radiography system that offers extreme carefree longevity for the X-ray department.

The Bucky table
295 kg (650 lbs)
Maximum lifting weight



Easy-to-Operate, Fully Featured, Intelligent X-Ray High Voltage Generator

Color LCD and Touch Panel Allow Intuitive Operation

Patient Care Concept

Color-Coded Status Indicator

The console panel indicates the status of the X-ray generator using color perimeter display with audible sound.

The hand switch also lights up to indicate 'Ready Status'.

This advanced feature allows the operator to concentrate on patient care:

- Infant and frail elderly patients who need constant attention.
- Split-second timing is required for patients who have difficulty holding their breath.
- Quick positioning and image capture when required



Illumination switch

Illumination Color and Alarm Sound When Preparation for Exposure Is Complete

The LCD screen and illumination color can change according to the Bucky table or X-ray tube settings selected. Different alarm sounds can also be specified for various events, such as when preparation for exposure is complete.



Using Bucky stand



Using Bucky table

Advanced APR Allows 800 Different Radiography Parameter Configurations

Examination Regions	Radiography Techniques
Maximum 10 regions	Maximum 20 techniques

Seven Exposure Directions

Advanced APR (Anatomical Program)

Up to 800 Anatomical Programs can be registered on the system. Registering the conditions as programs associated with examination area and technique allows conditions to be set up smoothly.

Each technique selection has 10 anatomical regions that can be selected. Each anatomical region has 15 user-definable techniques associated with it. (This setting can be changed to 20 if required.)

Furthermore, up to 7 different directions can be stored in each technique key; each time one direction is taken, the exposure conditions can be automatically changed according to the next direction. This feature is particularly effective for inspections of areas requiring exposure from several different directions, such as for orthopedic surgery.



Communication Functions for DR Units Included As Standard

It is possible to communicate with DR units and receive up to 800 radiography programs or send exposure results.

To improve ease of use, offline settings are available if confirmation of receipt or communication is not required.

Received radiography parameters can be freely changed or adjusted manually.

X-Ray Tube Unit Quick Ready Function

If the [Quick Ready] button on the console is pressed, the X-ray tube anode starts rotating before the exposure operation. (Only with high-speed-rotation X-ray tubes.)

This permits rapid radiography by halving the time required to prepare for exposures in comparison with previous models.

(This function can also be operated from the X-ray tube support unit.)

Low Exposure Levels and High Image Quality

Maximum Inverter Frequency: 50 kHz

Stable X-ray output and superior response are the key to obtaining high image quality at low exposure levels.

Shimadzu achieves high image quality by using superior high-frequency inverter technology to reduce unwanted exposure from low-energy X-rays and by inhibiting voltage ripple in the X-ray tube to provide quick start-up characteristics.

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 optional Calculated Dose displays the expected dose, in advance of the exposure, based on the radiography parameters and the distance to the patient. The resulting exposure parameters and calculated dose are displayed and can be sent to the RIS/PACS system.

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

Phototimer with Four Photo Pickup Fields OPTION

Dedicated photo pickup fields are provided for abdomen and chest regions to achieve appropriate dosage control for each region. This acquires good images appropriate for each type of examination, while reducing the exposure levels.

Displays Exposure Back-Log of 512 Cases

Up to 512 cases can be archived and displayed as the exposure back-log.

The radiography parameters used to obtain the results can be reset.

With Calculated Dosimeter option, the calculated dose information is also displayed.

Space Saving Concept

The compact, space-saving high voltage generator provides more working space as well as a flexible layout. A ceiling-mounted X-ray tube further increases the spatial area around the patient on a Bucky table or trolley.



Configuration and Options

X-Ray Tube Support

CH-200

- Color LCD Touch screen rotates automatically with tube rotation
- Individual programmable switches for locks
- Quick positioning with new-style operation handle
- Easy to clean surface
- All free button for full-way motion release
- One-hand operation for vertical tube movement
- Lock release buttons on rear of tube suspension
- Spring balanced for easy movement
- Reliable locking system allows any angulations to be held in position



Bucky Table

BK-200

- Elevating horizontal radiographic table
- Maximum lifting weight is 295 kg (650 lbs)
- 4-way floating top and electromagnetic locks
- Size sensing cassette tray
- Tabletop collision protection sensor
- Convenient and safe foot controls by kick switch
- Selectable extensive options
- Flat CFRP-tabletop (option)
- Grid is removable



X-Ray High-Voltage Generator

UD150B-40/V-40/L-40

- Newly designed large capacity and high frequency inverter
- Large readout LED
- Touch screen display
- Communication with CH-200 display
- Quick setup with jog dials and Up/Down buttons
- Micro processor controlled
- Automatic exposure control
- Self diagnostic function with display of error codes
- 80, 65 and 50 kW output selection



Bucky Stand

BR-120/BR-120T

- Vertical travel to accommodate all patient ranges and studies
- Size sensing cassette tray
- Remote collimation control (option)
- Compact design Bucky unit for easily examined sitting patients
- Selectable extensive options
- Equipped with a tilting Bucky unit (BR-120T)
- Grid is removable



BR-120

BR-120T

DR (CXDI series : recommended DR system)



Note) Of the recommended DR systems, the CXDI-810C and CXDI-801C/G cannot be installed in the Bucky stand and the Bucky table.

Options



Grip switch

Lateral cassette holder

Remote collimation control

Bucky table handle

Bucky table compression belt



Overhead hand grip

PA radiography handle

Cassette holder

FPD Rotation Tray

- Phototimer SPT-XD-A1A (1 field)
- Phototimer SPT-XD-A3B (3 fields)
- Phototimer SPT-XD-A4B (4 fields)
- Vertical tracking unit
- Bucky synchronization unit*
- Auto positioning function*
- Auto stitching function*
- Bucky table handle
- Bucky table compression belt
- Bucky table drip holder
- Bucky table dual-side kick switch option
- Bucky stand compression belt
- Bucky stand PA radiography handle
- Bucky stand overhead hand support
- Line Marker to Collimator (R-300)
- Detent unit (available with R-300)
- Foot switch
- Area Dosimeter
- Orderly cable Management

* Auto positioning function, Auto stitching function and Bucky synchronization unit are not available with the CH-200 rear-mounting type.

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



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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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- The appearances and specifications are subject to change for reasons of improvement without notice.
- Items and components in the photos may include optional items. Please confirm with your sales representative for details.
- 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.