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

RADspeed Pro™ style edition
CXDI featuring GLIDE Technology

This 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 technologies that are gentler to humans and provide a more comfortable examination environment for both the patient and the operator.

Recommended DR system
### Experience New Clinical Value with DR System

**Quick Preview After Exposures**
Reference images can be displayed a mere two 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 IP57 waterproofing standard, providing excellent dust and fluid ingress protection.*

**Robust design with a 310 kg load bearing capacity**
The proprietary design is lightweight, but has a full load bearing capacity of 310 kg.

**Automatically Linked Radiography X-Ray Exposure Field**
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**
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.

**Built-in AEC Assistance**
The FPD is equipped with Automatic Exposure Control (AEC) assistance to support dose reduction in examinations with free positioning, such as patients who are brought in bed.

**Light, easy-to-handle wireless FPD**
Significant weight reductions have been achieved, with the 14 x 17 inch model now weighing just 2.3 kg. (CXDI-720C/710C Wireless)
The FPD can be positioned quickly with no concerns about its weight.

### Speed Stitch (Auto stitching of long view images)
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 and lateral direction.

| Max 4-steps, 160 cm length available | Max 2 or 3*-steps, 80 or 120° cm length available |

* (*Only) when Bucky Table is long stroke type.

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* Waterproof property depends on the FPD model.

** Use of Bucky Table is limited to use outside Bucky Table and Bucky stand.

** The option is supported only for systems configured with CXDI-Elite. Please contact your sales representative regarding the availability.
Manual Operation
Auto Tracking

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.

Superb operability Power Assist Function

The POWER GLIDE assists your manual positioning of X-ray tube by motors and makes it extremely light. It reduces technologists’ burdens and increase patient throughput.

Five axis (max.) Auto-Positioning Feature Allows the Operator to Focus On Patient Care

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 field according to the APR. 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 pre-set SID, enabling accurate and fast positioning.

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

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. The 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.

Bucky Unit Automatically Follows Irradiation

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.

Orderly Cable Management

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

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

Red laser mark clearly indicates center of the radiation field.

Click-Stop Collimator Rotation

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.)

Design Concept Pursues Durability

The Bucky table can support 295 kg (650 lbs). The ceiling mounted X-ray tube support 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.
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:
• Infants 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.

APRs Synchronized with the DR System

The selected APR controls the radiography parameters, which can also be selected and 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 DR system, X-ray tube support and X-ray high voltage generator effectively exploits the convenience of multiple consoles.

Generator Equipped with High-Frequency Inverter Technology

The ‘High-frequency Inverter’ with maximum frequency of 50kHz is used as the X-ray generation source, which generates low-ripple output with a high X-ray quantum efficiency.

This dramatically reduces X-rays that do not contribute to high-quality imaging.

600 kHU High capacity X-Ray Tube

It is possible to combine a large capacity X-ray tubes with an anode heat content of 600 kHU. Furthermore, this achieves a fast startup time of 0.8 seconds, reducing the risk of subject movement during imaging and improving workflow.

• Nominal focal spot: 0.6/2.2 mm
• Target angle: 12° or 16°
• Nominal X-ray tube voltage: 150 kV (Short time)

600 kHU High capacity X-Ray Tube

Speed Shot

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.

Generator Equipped with High-Frequency Inverter Technology

High-frequency conversion

50 kHz

High efficiency.
Low-ripple output.
High-quality images.

Removable Grid

For dose monitoring, a Calculated Dose Area Product can be displayed on the console after exposure, which is based on the measured exposure parameters. Optional physical DAP meter is also available instead of the Calculated Dose Area Product display function. In addition, Estimated entrance Dose based on the radiography parameters and the measured distance to the patient, is displayed prior to exposure as an option.

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

Dose Display

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.
**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

**X-Ray High-Voltage Generator**

**80 kW/65 kW/50 kW**
- Newly designed large capacity and high frequency inverter
- Large readout LED
- Touch screen display
- Communication with CH-200 display
- Quick setup with jog dial 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

**Options**
- Bucky table dual-side kick switch option
- Bucky table drip holder
- Bucky stand compression belt

**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

**Bucky Table**

**BK-200**
- Elevating horizontal radiographic table
- Maximum allowable load 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

**Bucky Stand**

**BR-120**
- Overhead hand grip
- PA radiography handle
- Cassette holder
- Remote collimation control

**BR-120T**
- Phototimer SPT-XD-A1A (1 field)
- Phototimer SPT-XD-A3B (3 fields)
- Phototimer SPT-XD-A4A (4 fields)
- Test switch
- Area Marker for Collimator
- Area Dosimeter

**Options**
- Power assist function
- Auto positioning function
- Auto stitching function
- Bucky synchronization unit

**DR system (CXDI series : recommended FPD)**

- Cassette holder
- Overhead hand grip
- PA radiography handle
- Cassette holder
- Remote collimation control

**Bucky table compression belt**

*Power assist function, Auto positioning function, Auto stitching function and Bucky synchronization unit are not available with the CH-200 rear-mounting type.*
Label Description: RAdspeed Pro

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