SHIMADZU
Excellence in Science

C501-E055

RADspeed Pro style edition

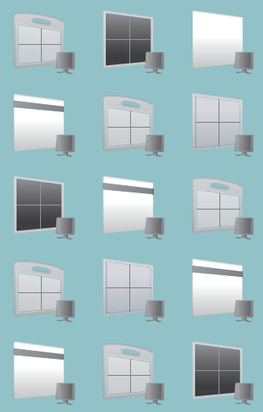
Automatic featuring GLIDE Technology

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

RADspeed Pro style edition

Automatic featuring GLIDE Technology

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.



DR "NEUTRAL" 2.0

Flexible DR solutions to meet your needs.

- Cutting edge Power GLIDE function (Power Assist)
- Sophisticated Synchronization Functions, Make System Operation Even Easier
- Next-Generation Collimator Reduces X-ray Dose to The Patients
- Our Caring Subtle Improvements Make Your Operation Even Easier
- Easy-to-Operate, Fully Featured, Intelligent X-Ray High Voltage Generator

Upgradable to DR System

The DR system significantly improves diagnostic accuracy and workflow.

*) The TM and ® symbols are omitted in this document.

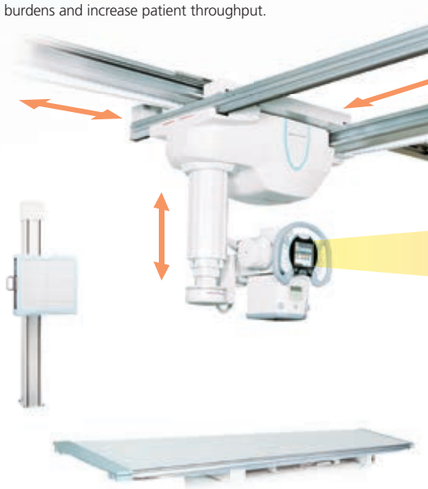
Our Caring Subtle Improvements Make Your Operation Even Easier

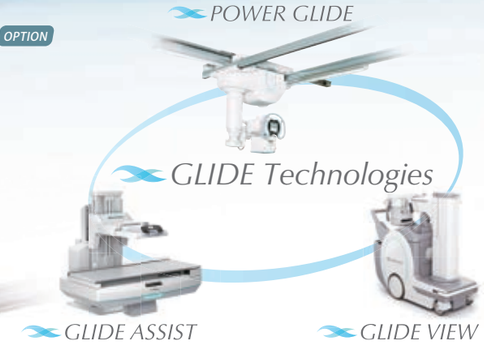
Extensive Functionality Matched to the Needs of Various Clinical Applications

Superb operability Power Assist Function OPTION

POWER GLIDE

The POWER GLIDE assists your manual positioning of X-ray tube by motors and makes it extremely light, just like "Gliding in Air". It reduces technologists' burdens and increase patient throughput.

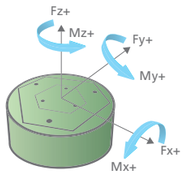




Full power Mid Low

A balance between Fast & Accurate Positioning

6-axis force sensor



Motor drive

Revolutionary 5-axis (max.) Auto-Positioning Feature Allows the Operator to Focus On Patient Care OPTION

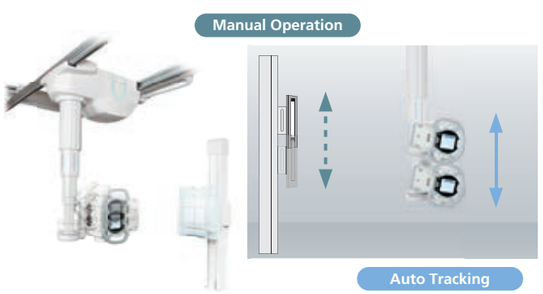
The auto-positioning feature is interlocked with the APRs. This function moves the ceiling-mounted X-ray tube support to any desired position at the press of a single button and can automatically set the X-ray tube angle. Effortless tube positioning allows the operator to focus on patient care.
(30 horizontal / 30 upright / 30 others, 90 positions max.)
Naturally, manual operation is also possible to make fine positioning corrections easy.

Remote controller

*) Optional automatic motion.

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

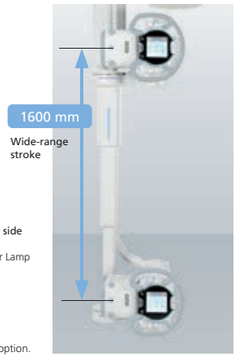
The focal point of the X-ray tube unit moves up and down in conjunction with the vertical positioning of the X-ray Bucky stand and X-ray Bucky table. This allows the operator to attend the patient in a standing position while positioning the equipment.
For a table study, the X-ray tube automatically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



Automatic synchronization even at oblique positions

Ceiling-Mounted X-Ray Tube Support for Versatile Positioning

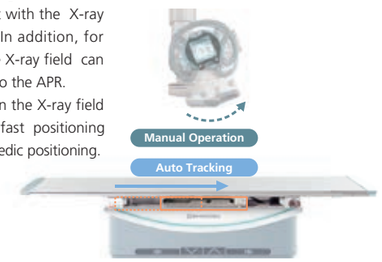
X-ray tube support vertical range of 1,600 mm ensures sufficient SID when examining supine patients and low focal point radiography of standing patients. This support also rotates on the vertical and horizontal axis in addition to fixed positioning at any desired angle, enabling fast positioning at complex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

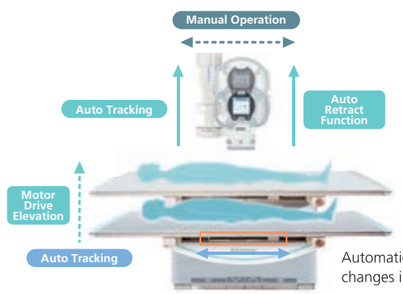


* Photo showing in case of Power Assist option.

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.





Automatically follows changes in table height

Orderly Cable Management OPTION

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 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.)

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.

The Bucky table

295 kg (650 lbs)

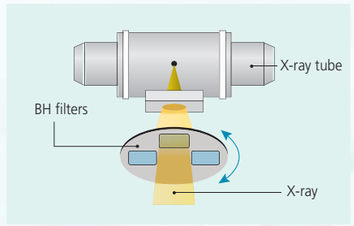
Maximum lifting weight

New Ways to Improve Patient Care

Realizing Our Commitment to Reducing Patient Exposure

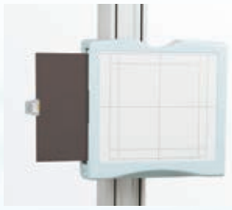
Auto-Filtering Feature Automatically Switches to the Optimal Filter for Each Selected Protocol

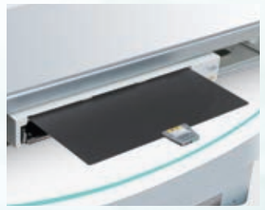
Select a protocol to suit the type of examination, and the filter in the collimator will change in accordance with the protocol. This ensures the correct filter is always automatically selected.



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.





Patient Friendly Design

A well designed equipment gently protects the patient

Rubber-Cushioned Collimator

The perimeter of the collimator emission port is covered with rubber to cushion the impact if a patient bumps into the collimator.

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.

Radiography Can Also Be Performed Using a Foot Switch *OPTION*

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

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

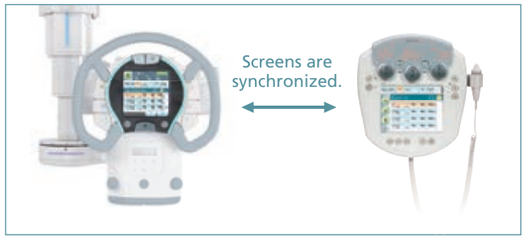
The LCD screen and illumination color can change according to the Bucky table or X-ray tube settings selected. Different alarm sounds can also be specified for various events, such as when preparation for exposure is complete.

Using Bucky stand

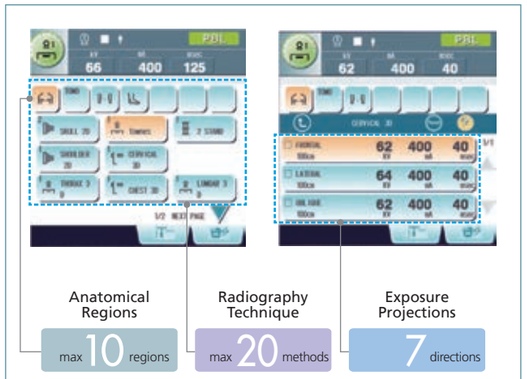
Using Bucky table

APRs Synchronized with the X-ray tube Support OPTION

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 X-ray tube support and X-ray high voltage generator effectively exploits the convenience of multiple consoles.



Advanced APR Allows 800 Different Radiography Parameter Configurations

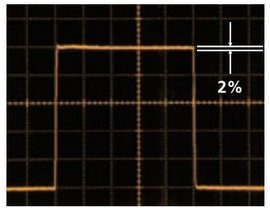


Communication Functions for CR/DR Units OPTION

It is possible to communicate with CR/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.

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.



High-frequency conversion
50kHz
High efficiency. low-ripple output
High-quality images

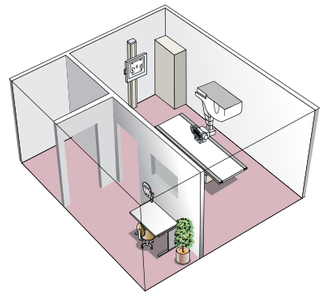
Dose Display

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.

*) The optional Estimated entrance Dose display is not available if the optional DAP meter is combined.

System Layout

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.



600 kHU High capacity X-Ray Tube OPTION

Speed Shot

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: 0.6/1.2 mm
- Target angle: 12° or 16°
- Nominal X-ray tube voltage: 150 kV (Short time)

Ready Up within **0.8 sec.**

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

(Bucky unit, Long stroke type)

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 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

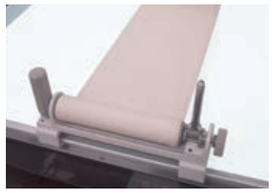
BR-120T

Options

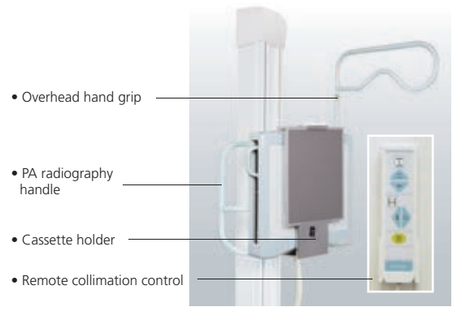
Grip switch

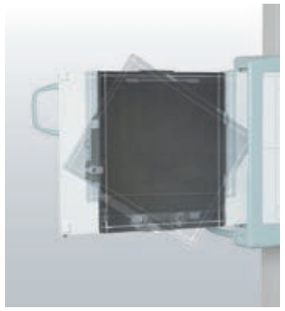
Lateral cassette holder

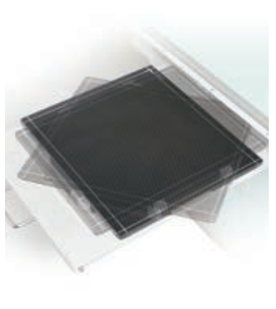
Bucky table handle



Bucky table compression belt







FPD Rotation Tray

- Phototimer SPT-XD-A1A (1 field)
- Phototimer SPT-XD-A3B (3 fields)
- Phototimer SPT-XD-A4B (4 fields)
- Foot switch

- Line Marker for Collimator
- Detent unit for Collimator
- Area Dosimeter

- Vertical tracking unit
- Bucky synchronization unit*
- Auto positioning function*
- Auto stitching function*
- Orderly cable Management
- Power Assist Operation
- POWER GLIDE* (Power Assist Operation)

- Bucky table dual-side kick switch option
- Bucky table drip holder

- Bucky stand compression belt

*POWER GLIDE, 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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Management System
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ISO 13485:2016
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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.

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