Remarks:

- Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- The appearances and specifications are subject to change for reasons of improvement without notice.
- 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.
**SHIMADZU GENERAL RADIOGRAPHIC SYSTEM**

**RADspeed Series**

*High Productivity and Reliability: Hallmarks of Shimadzu X-ray Systems!*

With a near century of experience in manufacturing X-ray apparatus, Shimadzu’s expertise in X-ray systems is well recognized. For years, Shimadzu’s X-ray products have been associated with legendary reliability, cost-effectiveness and quality in the medical industry.

Shimadzu’s general radiographic systems are imbued with the Shimadzu heritage. Additionally, our general radiographic system features state-of-the-art technology that enhances productivity, user-operability, patient comfort and safety.
A ceiling-suspended X-ray tube system with a wide range of movement allows excellent imaging, technique flexibility and easy access to the patient. This enhanced flexibility is ideal for imaging centers that demand high productivity to meet fast patient throughput.

**Superior Generator with High-Frequency Inverter Technology**

Shimadzu’s general radiographic system is equipped with an advanced generator designed state-of-the-art high-frequency inverter technology. The 50kHz high-frequency generator consistently produces sharp and crisp X-ray images, an achievement attributable to the advanced generator’s higher quality X-ray output with a very small kV ripple and highly accurate timer control. These characteristics, inherent in a high-frequency generator, reduce radiation dose to patients by eliminating lower energy X-rays (soft X-rays), making it superior to and safer than other types of generators, e.g. twelve-pulse generators.

Shimadzu generators feature an operator-friendly function called Sequential Multi-directional Radiography. This feature allows a radiographer to enter and utilize up to 7 sequential preset parameters in memory. The intelligent system automatically steps to the next preset exposure factors at the end of every exposure. This unique function is another Shimadzu innovation that enhances productivity and user-friendliness.

**50kHz High-Frequency Generator**

**Up to 7 Sequential Multi-directional Radiography Exposure Presets**

**Space Saving Concept**

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

**Long Vertical Travel and Smooth Operability**

The long vertical travel range (1600mm), provides sufficient SID (Source Image Distance) for images in the supine position as well as for low position images in the standing position.

**Heavy Duty Height-Adjustable Bucky Table with 4-way Floating Table Top**

The new Bucky table BK-120MK can easily lift up to 200kg. Patient positioning is made easier with the extremely smooth-moving table top. The unit’s minimum height of 535mm makes it easy for old and young patients alike to get on and off the examination table. The BK-120MK includes a Bucky device with a cassette tray and grid.

**Recommended System Configuration**

- X-ray high voltage generator: UD150L-40E
- X-ray tube unit: UD32P392E-45
- High speed starter: SA-60U
- High voltage cable: 18m
- X-ray tube support: CH-200M
- Vertical Bucky stand: BK-120M
- Height-Adjustable Bucky table: BK-1205K
- Collimator: FL-20U
The System MF series is Shimadzu’s general radiographic system for compact floor-ceiling / wall mounted tube support installations. Designed to exacting specifications, the RADspeed System MF delivers high-performance, high-quality, and cost-effective operation in a superior general radiographic system. Designed to exacting specifications, the RADspeed System MF delivers high-performance, high-quality, and cost-effective operation in a superior general radiographic system.

**Compact & Superb Performance**

**Heavy Duty Height-Adjustable Bucky Table with 4-way Floating Table Top**

The new Bucky table BR-120MK can easily lift up to 300kg. Patient positioning is made easier with the minimum table top moving space. The table’s minimum height of 535mm makes it easy for old and young patients alike to get on and off the examination table. The BR-120MK includes a Bucky device with a cassette tray and grid.

**Easy and Quick Positioning of X-ray Tube**

Tube positioning can be performed easily and quickly with the fine-tuned counter-weight balance mechanism.

**Recommended System Configuration**

- **X-ray high voltage generator**
  - UD150L-40E
- **X-ray tube unit**
  - 0.6/1.2P38DE-85
- **High speed starter**
  - SA-42UD
- **High voltage cable**
  - 14m
- **X-ray tube support**
  - FH-21HR
- **Vertical Bucky stand**
  - BR-120M
- **Bucky table**
  - BK-120MK
- **Collimator**
  - R-20J

**Bucky Tables**

- **BK-120MK**
  - Height-adjustable Bucky table with manual cassette tray
  - Max. lifting weight: 200 kg
  - Table top floating range: 1100 mm (long.), 250 mm (transverse)
  - Cassette size: 6.5" ⋆ 8.5" to 14"
  - Vertical travel range: 1520 mm

**Bucky Stand**

- **BR-120M**
  - Bucky stand with automatic cassette tray

**Collimator**

- **R-20J**
  - Linear Collimator
  - Max. radiation field: 430 mm × 430 mm at 100 cm SID
  - Light switch with automatic off function

**X-ray Tube Supports**

- **FH series**
  - FH-20HR : Floor-mounted tube support (2 rails : both on floor)
  - FH-21HR : Floor/Wall or Floor/Ceiling-mounted tube support (2 rails : one on floor, other on ceiling or wall)

**Bucky Device Movement Range**

- **FH-20HR**
  - Longitudinal travel: 2500 mm
  - Lateral travel (telescopic arm): 250 mm
  - Vertical travel: 1550 mm
  - Tube angulation around the horizontal axis: ±90°
  - Column rotation for lateral table-top radiography: ±90°

- **FH-21HR**
  - Longitudinal travel: 2950 mm (along 4 m fixed rail)
  - Lateral travel (2 rails): 1400 mm (along 2 m moving rail)
  - Vertical travel: 1600 mm
  - Tube angulation around the horizontal axis: ±180° to ±120°
  - Vertical rotation: 1700 mm

**Heavy Duty Height-Adjustable Bucky Table**

- **BK-120MK**
  - Max. lifting weight: 200 kg
  - Table top floating range: 1100 mm (long.), 250 mm (transverse)
  - Table top height: 700 mm
  - Cassette size: 6.5" ⋆ 8.5" to 14"
  - Vertical travel range: 1520 mm

**R-20J Manual Collimator**

- Max. radiation field: 430 mm × 430 mm at 100 cm SID
- Light switch with automatic off function

**Accessories**

- **Accessory rails**
  - A Bucky unit height of just 552 mm and a convenient lower cutout make this unit both compact and convenient for patients.

**Heavy Duty Height-Adjustable Bucky Table with 4-way Floating Table Top**

The new Bucky table BR-120MK can easily lift up to 300kg. Patient positioning is made easier with the minimum table top moving space. The table’s minimum height of 535mm makes it easy for old and young patients alike to get on and off the examination table. The BR-120MK includes a Bucky device with a cassette tray and grid.

**Easy and Quick Positioning of X-ray Tube**

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- **High speed starter**
  - SA-42UD
- **High voltage cable**
  - 14m
- **X-ray tube support**
  - FH-21HR
- **Vertical Bucky stand**
  - BR-120M
- **Bucky table**
  - BK-120MK
- **Collimator**
  - R-20J

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  - Vertical travel range: 1520 mm

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  - Bucky stand with automatic cassette tray

**Collimator**

- **R-20J**
  - Linear Collimator
  - Max. radiation field: 430 mm × 430 mm at 100 cm SID
  - Light switch with automatic off function

**Accessories**

- **Accessory rails**
  - A Bucky unit height of just 552 mm and a convenient lower cutout make this unit both compact and convenient for patients.
Wide range of choices to meet your needs

High Voltage Generators

UD150B-40 / V-40 / L-40
Large capacity and high-frequency inverter
Exposure timing indicated by light and sound.
All APR units include a sharp, easy-to-read color LCD touch panel.
Quick setup with jog dials and Up/Down buttons

UD150L-40E/40F
High-frequency inverter
Exposure timing indicated by light and sound (option)
A large-character readout LED and hybrid keys allow easy, one-touch setting of APR exposure parameters.

<table>
<thead>
<tr>
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<th>UD150B-40</th>
<th>UD150V-40</th>
<th>UD150L-40</th>
<th>UD150L-40E/40F</th>
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<tbody>
<tr>
<td>Max. output power (kW)</td>
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<td>65</td>
<td>50</td>
<td>50 (32kW/single 200V power supply)</td>
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<tr>
<td>Tube voltage range (kV)</td>
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<td>40 to 150</td>
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<td>Tube current (mA@100kV)</td>
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<td>650</td>
<td>500</td>
<td>500 (320)</td>
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<tr>
<td>(mA@80kV)</td>
<td>1000</td>
<td>800</td>
<td>630</td>
<td>630 (400)</td>
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<td>Exposure time (sec)</td>
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<td>0.001 to 10</td>
<td>0.001 to 10</td>
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<td>Panel operation</td>
<td>Color LCD+Touch panel</td>
<td>Color LCD+Touch panel</td>
<td>Color LCD+Touch panel</td>
<td>Soft / membrane keys</td>
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