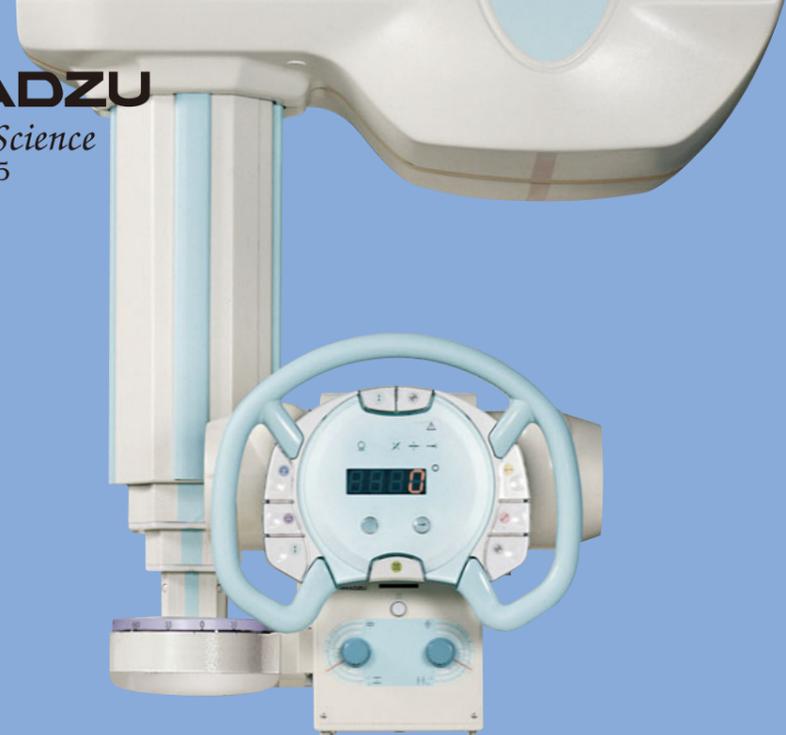


**SHIMADZU**  
*Solutions for Science*  
since 1875



# *RADspeed* **M** Series

SHIMADZU GENERAL RADIOGRAPHIC SYSTEM



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Shimadzu Corporation Medical Systems Group has been certified by TÜV Rheinland as a manufacturer of medical equipment and systems in compliance with ISO9001:2000 Quality Management Systems and ISO13485:2003 Medical Equipment Quality Management Systems.

**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**

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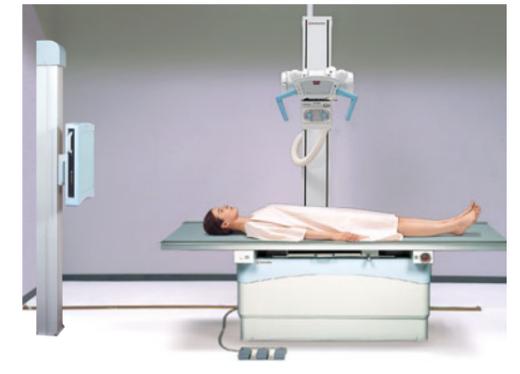
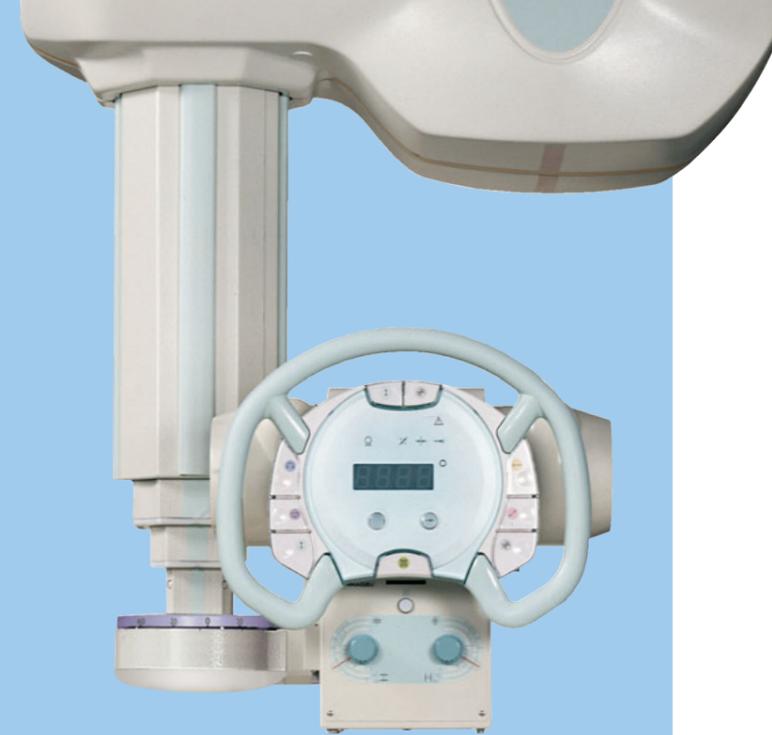
SHIMADZU GENERAL RADIOGRAPHIC SYSTEM

# ***RADspeed*** **M** 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.



***RADspeed*** **MC**

***RADspeed*** **MF**



# Superb Performance & Efficiency

## **RAD**speed**MC**

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.

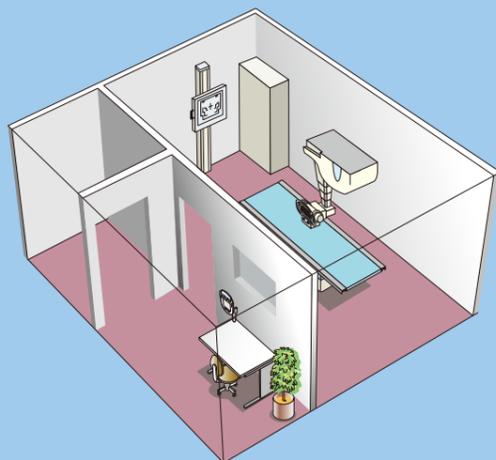
Shimadzu generators feature an operator-friendly function called Sequential Multi-directional Radiography. This feature allows a radiographer to enter and utilize up to 7 sequential preset parameters in memory. The intelligent system automatically steps to the next preset exposure factors at the end 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	0.6/1.2P38DE-85
High speed starter	SA-42UD
High voltage cable	22m
X-ray tube support	CH-200M
Vertical Bucky stand	BR-120M
Height-Adjustable Bucky table	BK-120MK
Collimator	R-20J



# Compact & Superb Performance

## RADspeed MF

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.

### Generator Equipped with High-Frequency Inverter Technology

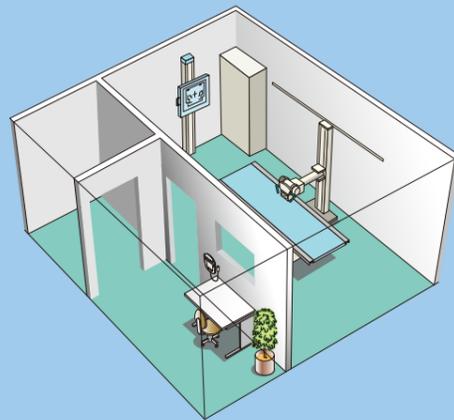
The RADspeed MF general radiographic system is equipped with an advanced-level generator designed using state-of-the-art high-frequency inverter technology, which produces sharp and high-contrast X-ray images. User-friendly Sequential Multi-directional Radiography functions allow the operator to register and then utilize up to 7 sequential preset memory parameters.

**50** kHz High-Frequency Generator

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

### Space Saving Concept

The compact, space-saving high-frequency generator and tube support provide greater working space and flexible layout.



### 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

### 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.

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



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



Wide range of choices to meet your needs

### 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)

Longitudinal travel	2500 mm
Lateral travel (telescopic arm)	250 mm
Vertical travel	1550 mm
Tube angulation around the horizontal axis	±180°continuous
Column rotation for lateral table-top radiography	±90°



#### CH-200M

Ceiling suspended tube support

Longitudinal travel	2950 mm (along 4 m fixed rail)
Lateral travel	1400 mm (along 2 m moving rail)
Vertical travel	1600 mm
Tube angulation around the horizontal axis	+120° to -180°
Vertical rotation	±180°



## Bucky Stand

### BR-120M

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

Cassette size	6.5"×8.5" to 14"×17"
Vertical travel range	1520 mm

## Collimator



### R-20J Manual Collimator

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

## Bucky Tables

### BK-120MK

Height-Adjustable Bucky table with manual cassette tray

Height range	535 mm to 850 mm
Max. lifting weight	200 kg
Table top floating range	1100 mm (long.), 250 mm (transverse)
Cassette size	6.5"×8.5" to 14"×17"
Bucky device movement range	350 mm



### BK-12HK

Bucky table with manual cassette tray

Table top floating range	1100 mm (long.), 250 mm (transverse)
Table top height	700 mm
Cassette size	6.5"×8.5" to 14"×17"
Bucky device movement range	350 mm



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.

	UD150B-40	UD150V-40	UD150L-40	UD150L-40E/40F
Max. output power (kW)	80	65	50	50 (32kW /single 200V power supply)
Tube voltage range (kV)	40 to 150	40 to 150	40 to 150	40 to 150
Tube current (mA @ 100kV)	800	650	500	500 (320)
(mA @ 80kV)	1000	800	630	630 (400)
Exposure time (sec)	0.001 to 10	0.001 to 10	0.001 to 10	0.001 to 10
Anatomical Programs (APR)	400 (adjustable layout)	400 (adjustable layout)	400 (adjustable layout)	245
Panel operation	Color LCD+Touch panel	Color LCD+Touch panel	Color LCD+Touch panel	Soft / membrane keys