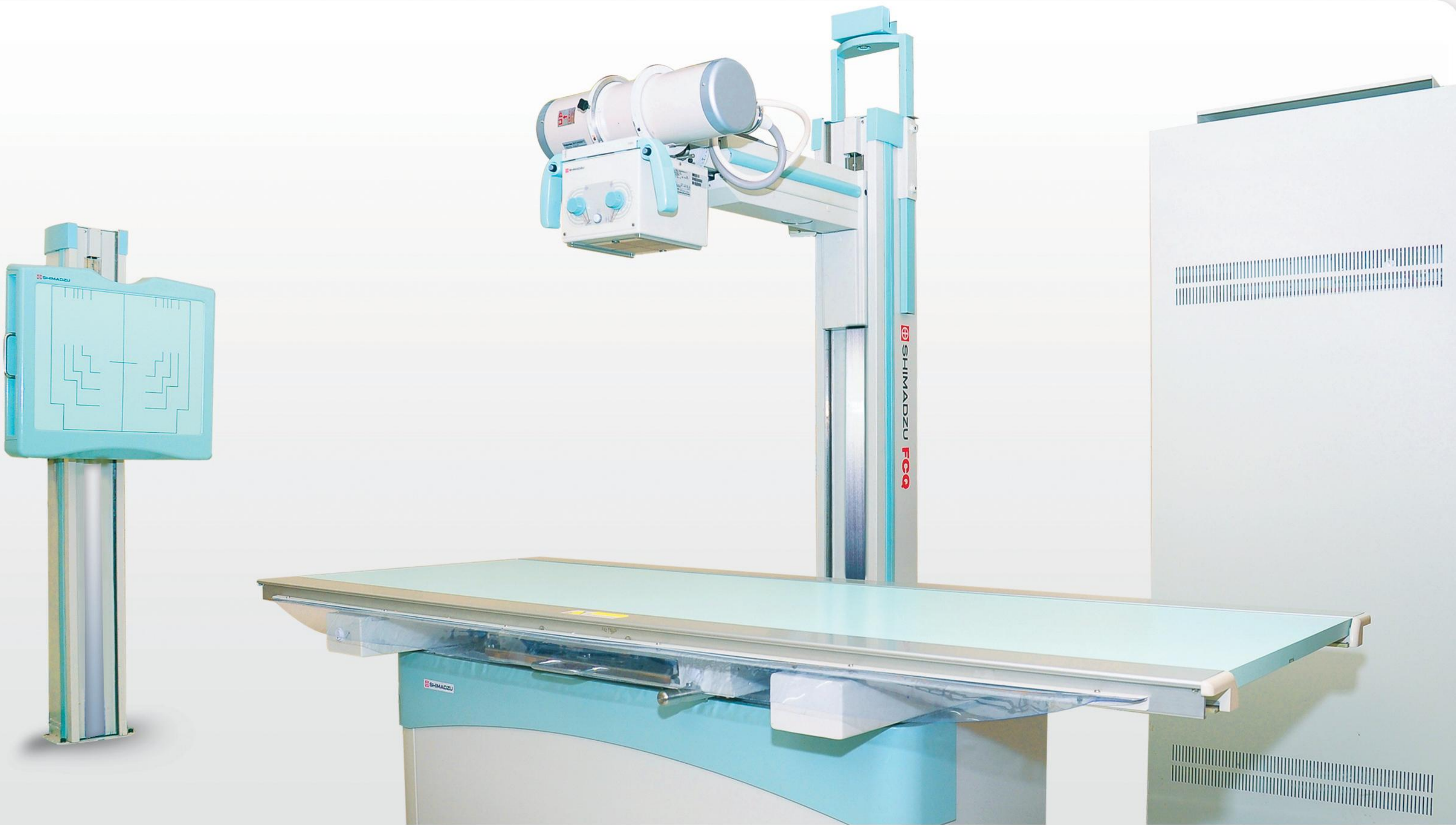




## General Radiography System



# Q-RAD50

The 50 KW X-Ray System

... Readily Upgradable to **DR System**



## Q-RAD 50 The 50 KW High Frequency X-Ray

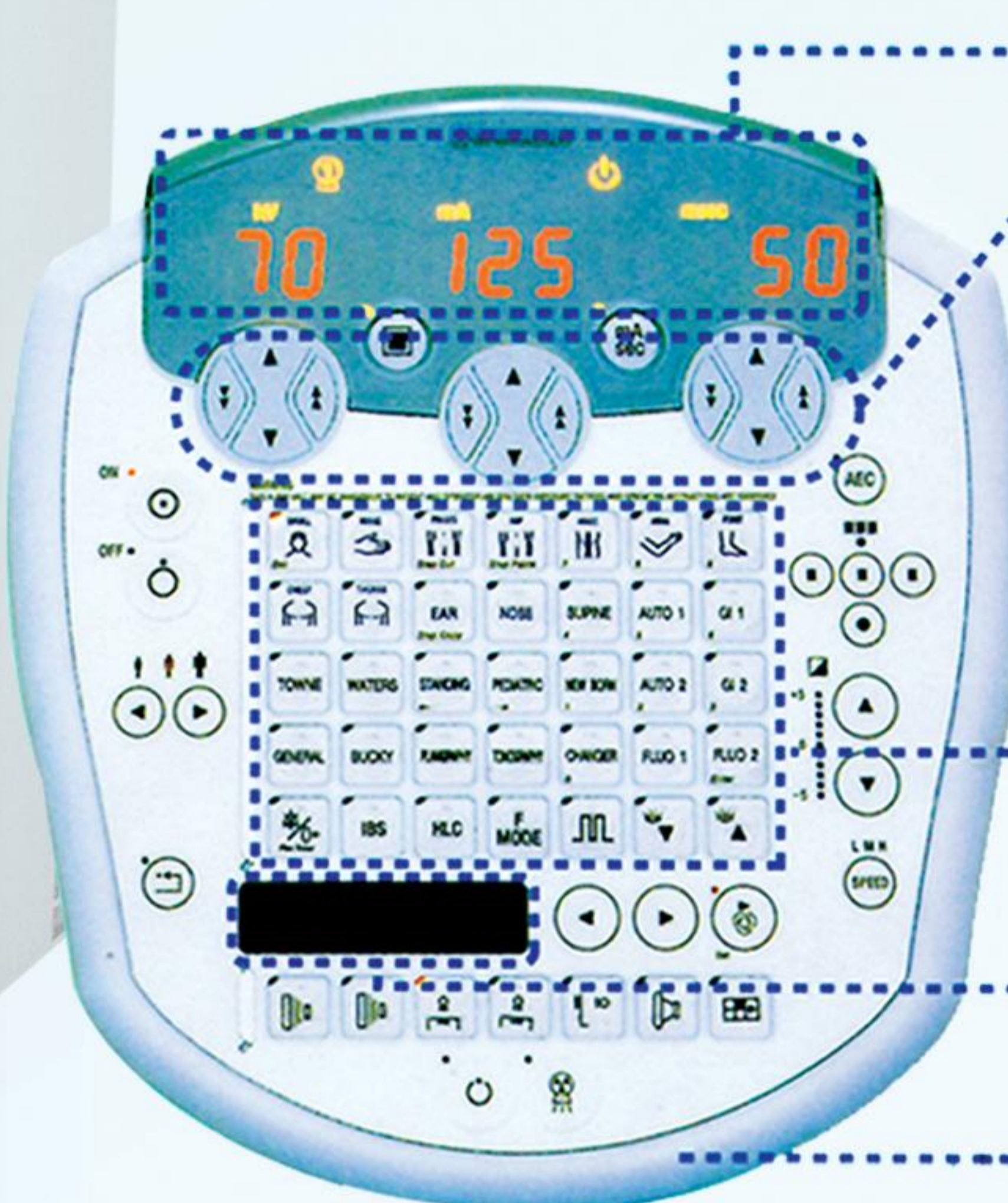
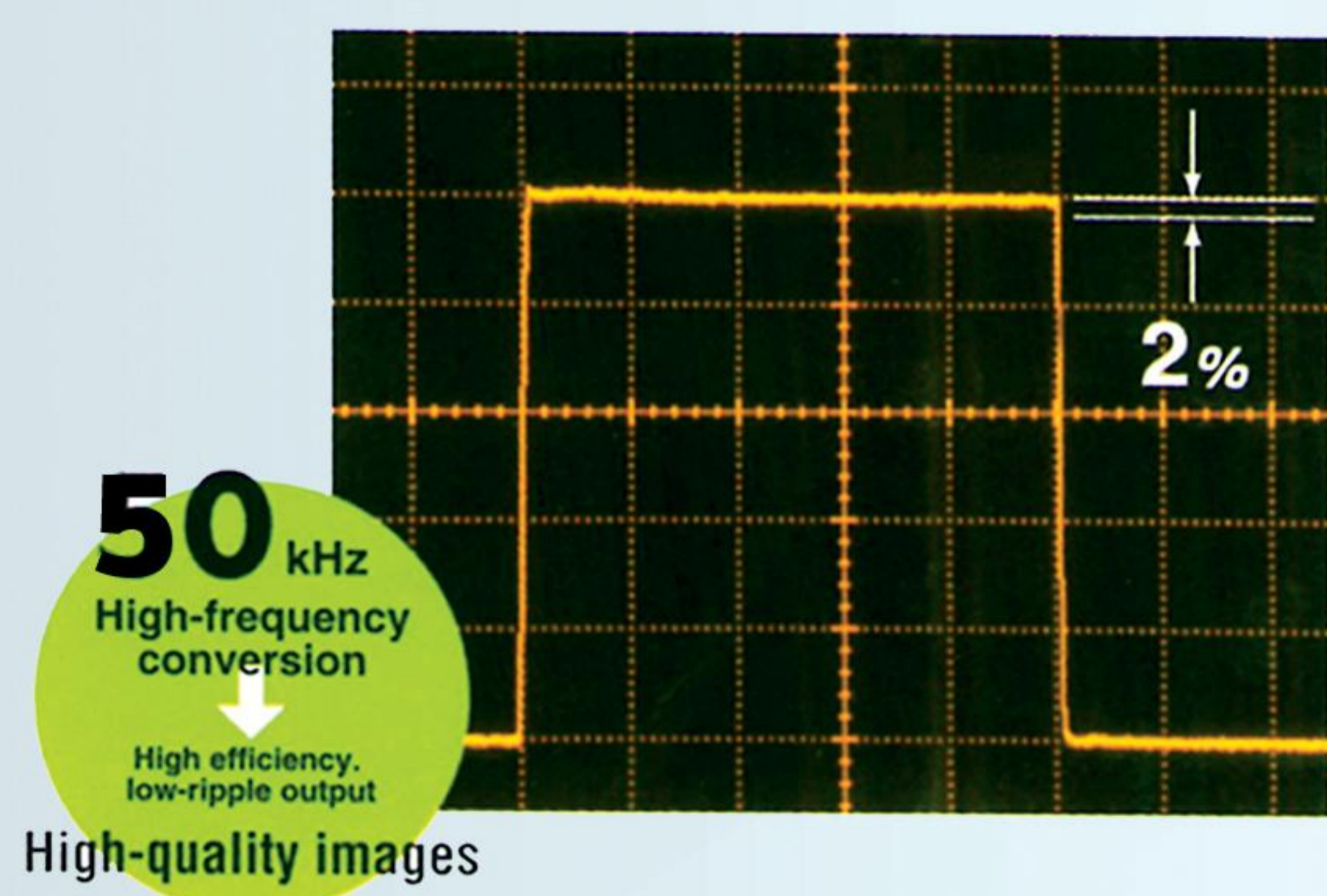
### High Productivity and Reliability : Hallmarks of Shimadzu X-ray Systems !

With over a century of experience in manufacturing X-Ray apparatus, Shimadzu have been recognized globally as a supplier of high quality X-Ray imaging products. We have a proven track record for quality, reliability, performance, cost effectiveness and low ownership cost.

Shimadzu's general radiography 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

### Generators Equipped with High-Frequency Inverter Technology

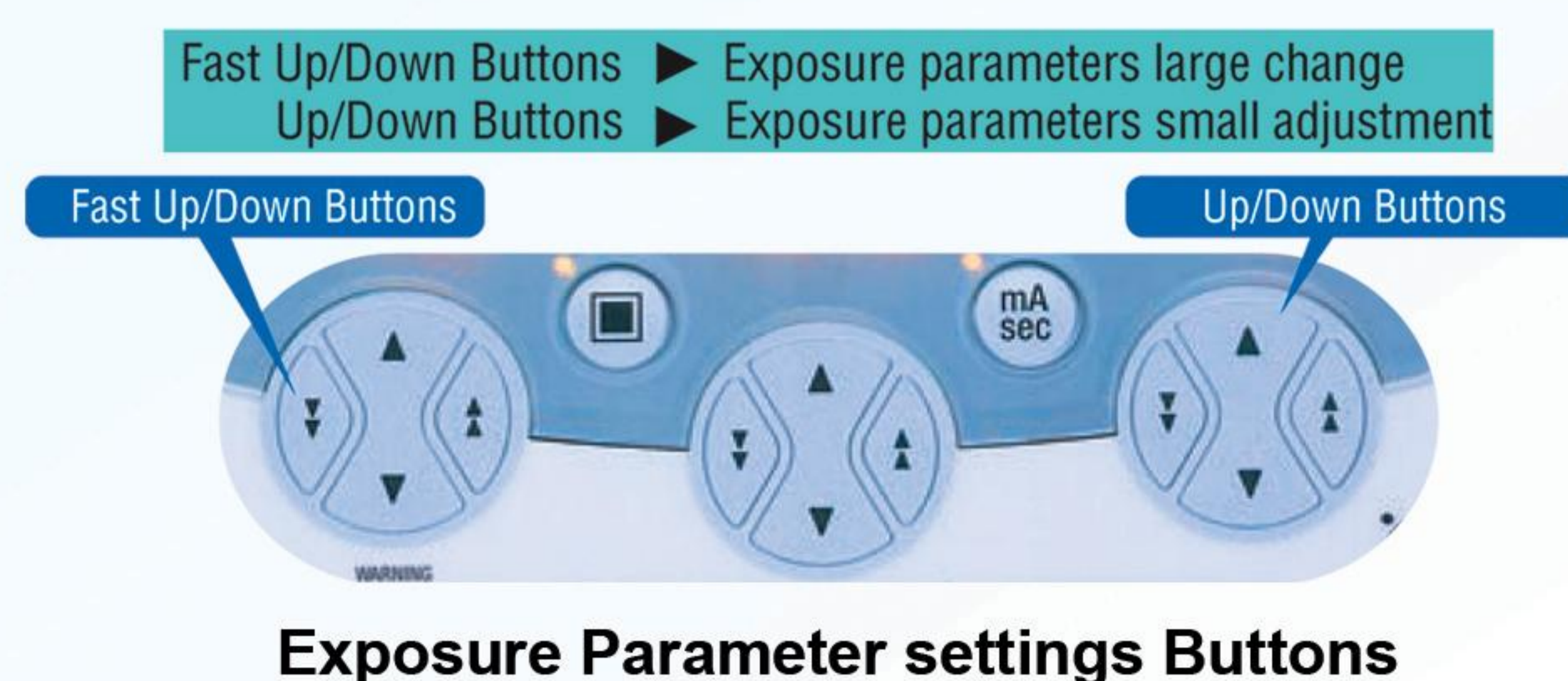
Operating up to 150 kV and minimum exposure time of 1 ms, Q Rad 50 captures images where patient find it difficult to hold their breath. The operator can concentrate on infants and frail elderly patients who need constant attention. State-of-the-art 50 kHz High Frequency inverter technology generator produces sharp & high contrast images.



- Wide Display**  
Shows the exposure parameters
- Hybrid Keys**  
Shuttle type dial for quick and easy exposure parameter settings.
- Hand switch**  
Controls X-ray radiography. The hand switch operates in two stages. Press the hand switch to the first stage to prepare for X-ray radiography; press it to the second stage to conduct radiography.
- Advanced APR**
- Sub-display**  
Shows error messages and setting menus.
- Sound function**

### UD150L-40E

- \* High-frequency inverter technology generating low ripple output
- \* Exposure timing indicated by light and sound (option)
- \* A large character read out LED and hybrid keys allow easy, one touch setting of APR exposure parameter
- \* Error messages and setting menus
- \* 245 exposure preset parameters

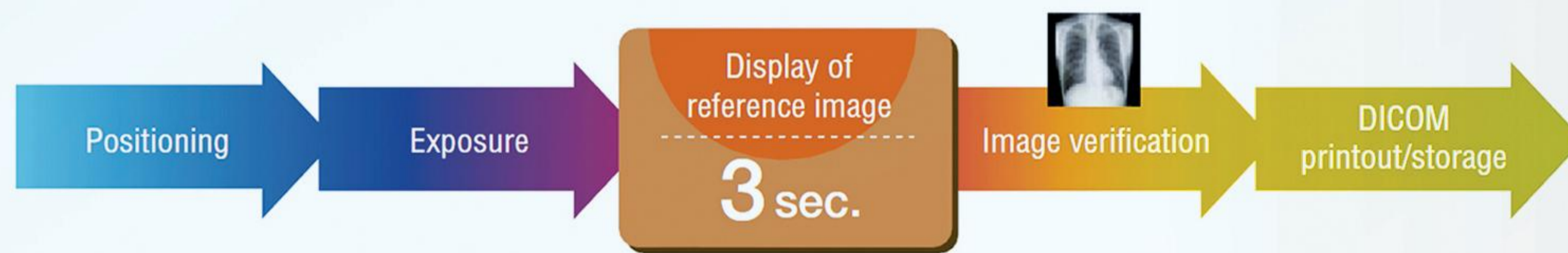


# Q-Rad50 - Reliability, Performance, Patient Comfort & Safety

## Upgradable to DR



Q-Rad 50 can be readily upgraded to Digital Radiography. A single portable DR panel can be used with both Bucky Table and Vertical Bucky making it very productive and cost effective DR solution. Portable panels, like cassette can easily be used for imaging of special views.



## Patient Comfort and safety

Quick and easy positioning becomes very important. Each of the system components - Generator, Bucky Table, Vertical Bucky, Multi Leaf Collimator are manufactured by Shimadzu ensuring total patient comfort and safety



## System Reliability

Q-Rad 50 does not require any UPS or automatic voltage regulator (AVR) and works in most of the sites where the voltage is relatively stable

## Security functions

A four digit password can be set to protect anatomical program from unauthorized changes and enhances the security of the equipment

### Advanced APR

Anatomical Programs

**35** modes

Exposure Direction

**7** ways

Register up to **245** exposure parameters

## SPECIFICATIONS

### High Voltage X-Ray Generator

Model	UD 150L-40E	
Control Method	High Frequency Inverter technology	
Kvp Range in steps of 1Kvp	40-150Kvp	
mA Range	10 - 630mA	
mAs Range	0.5-800mAs	
Exposure time range	0.001-10Sec	
Anatomical Programme(APR)	245 Presets, user programmable	
Display Parameters	KV, mA, mAs, Error messages	
Normal Power Voltage 50Hz	3-Phase AC 400 V, 50KVA	

### X-Ray Tube Options

Tube model	E7239X	E7242X
X-ray tube type	Rotating Anode	Rotating Anode
X-ray tube focal spot	Dual focal spot	Dual focal spot
small focus	1.0 mm x 1.0 mm	0.6 mm x 0.6 mm
Large focus	2.0 mm x 2.0 mm	1.5 mm x 1.5 mm
Anode heat capacity	140KHu	200KHu
Anode angle	16°	14°

## Vertical Bucky Stand

### BR-12Si

BR-12Si includes a bucky unit with a cassette tray and a grid. A convenient lower cut out makes this unit both compact and easy for the patients

Movement	Manual, Counter balanced
Bucky Unit	Grid: R-12:1,N-40 lines/cm F-170 cms
Vertical Travel Range	640mm ~ 1950mm
Locking method	Electromagnetic. (Lock released when switch is pressed)



## Collimator

### R-20 MultiLeaf Collimator

Light switch with automatic off function  
Max. 430mm x 430mm



## Bucky Table

### BK-12Si

Fixed table with four way floating top with extremely smooth movement making patient positioning easier. Table includes a bucky unit with a cassette

Size of Table Top mm(in)	810 x 2000 (31.9 x 78.7)
Table top height mm(in)	700 (27.6)
Table top movement	4 Way
Table top material	Medium density fibre
Table top floating range mm(in)	Long 1100 (43.3), Trans +/- 125 (+/-4.9)
Grid Unit	R-10:1,N-40 lines/cm F-100 cms
Max. allowable patient load	200 kgs
Locking method	Electromagnetic. (Lock released when switch is pressed)



## X-Ray tube support (Choice of X-ray tube support)

### Ceiling Mounted

Fully counter balanced ceiling type X-ray tube support

Longitudinal travel mm(in)	2950 (116){along 4m fixed rail}
Lateral Travel mm(in)	1400(55){along 2m moving rail}
Vertical Travel mm(in)	1600 (63)
Tube angulation around horizontal axis	+120° to -180° continuous
Vertical rotation	+/- 180°
Locking method	Electromagnetic. (Lock released when switch is pressed)



### Column Type

Fully counterbalanced floor mounted column type tube support

Longitudinal travel mm(in)	2500 (98.43)
Lateral Travel mm(in)	250 (9.84)
Vertical Travel mm(in)	1500 (59)
Tube angulation around horizontal axis	+/- 180° continuous
Column rotation for lateral table radiography	+/- 90°
Locking method	Electromagnetic. (Lock released when switch is pressed)

#### Remarks

- \*X-ray room layout to be approved by AERB before installation
- \*AERB stipulates registration for every X-ray units installed
- \*Every specification 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.
- \*Before operating this system, you should first thoroughly read the instruction manual



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Shimadzu Medical (India) Pvt Ltd., has been certified by TUV Rheinland as a manufacturer of medical equipments in compliance with ISO 9001:2000 Quality Management Systems.

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