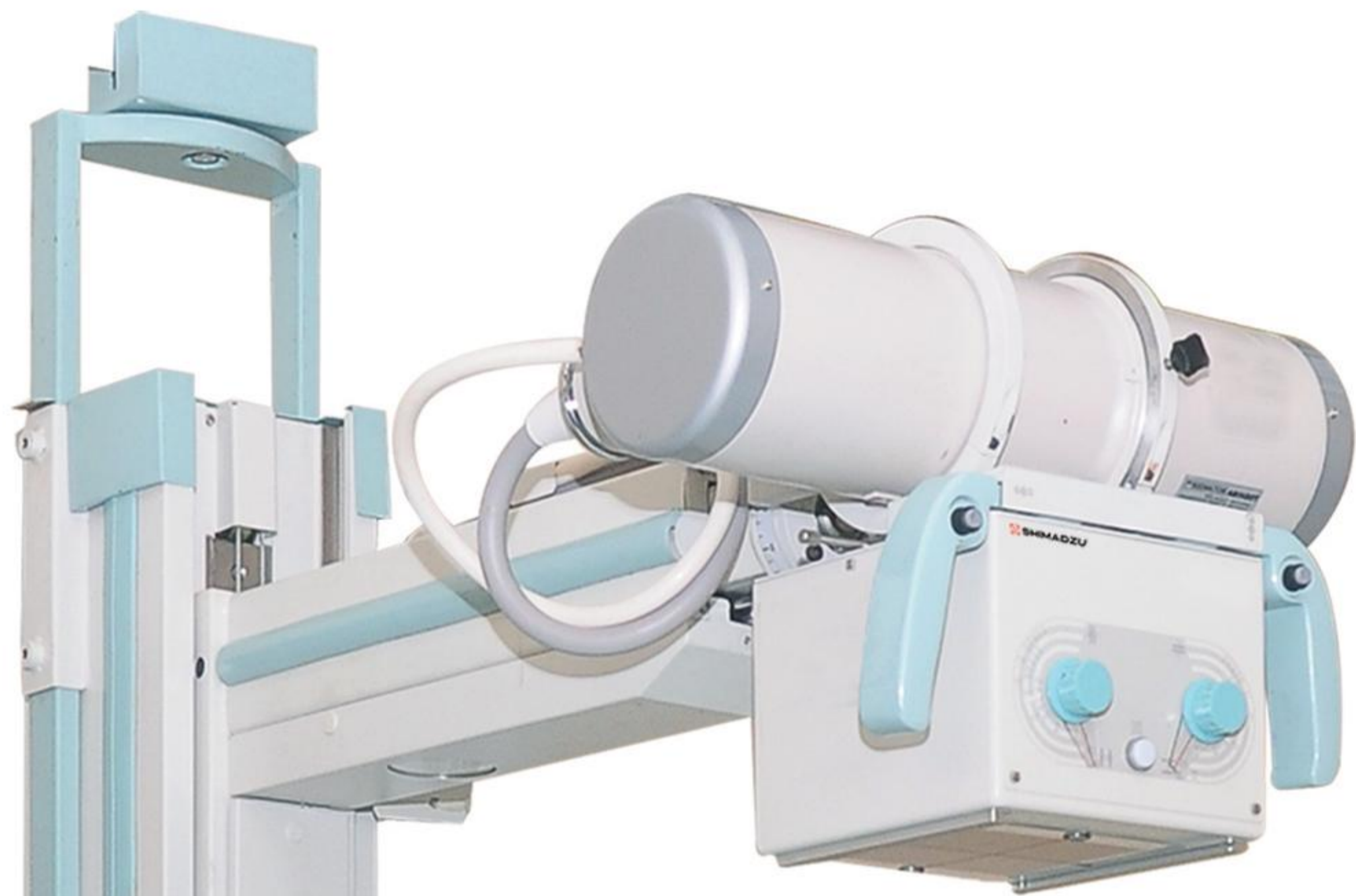




General Radiography System



Q-RAD

The 16KW X-Ray system



Uncompromised diagnostic details with low dose

High frequency Inverter Type X-ray generator

Low dose X-ray

Preset Anatomical Program

User Friendly

High Reliability



16KW High Frequency X-Ray System

High Reliability and Performance Hallmarks of Shimadzu X-ray Systems

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

Q-Rad, combines compact dimensions to allow installation in tight spaces and makes radiography possible with simple operations.

UD125 P-C / UD125 P-CH

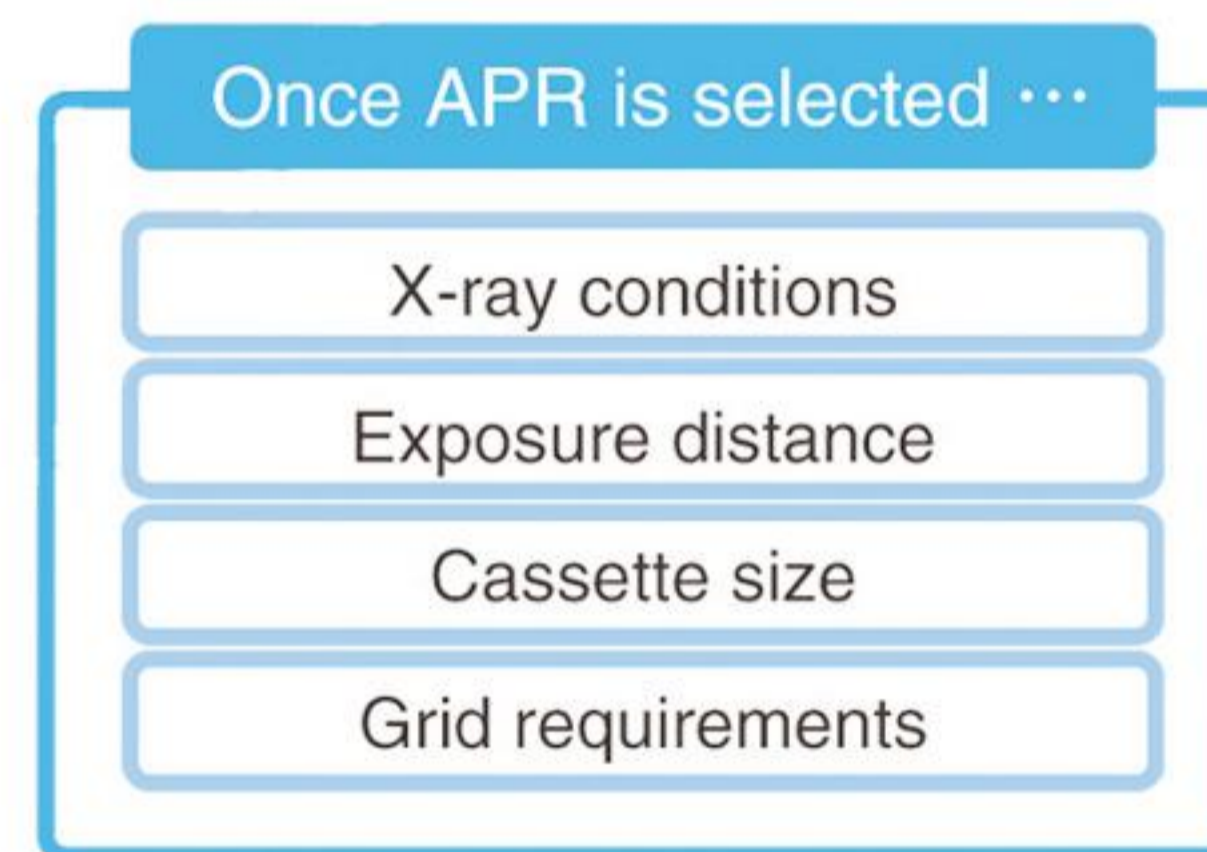


Wall mountable Console

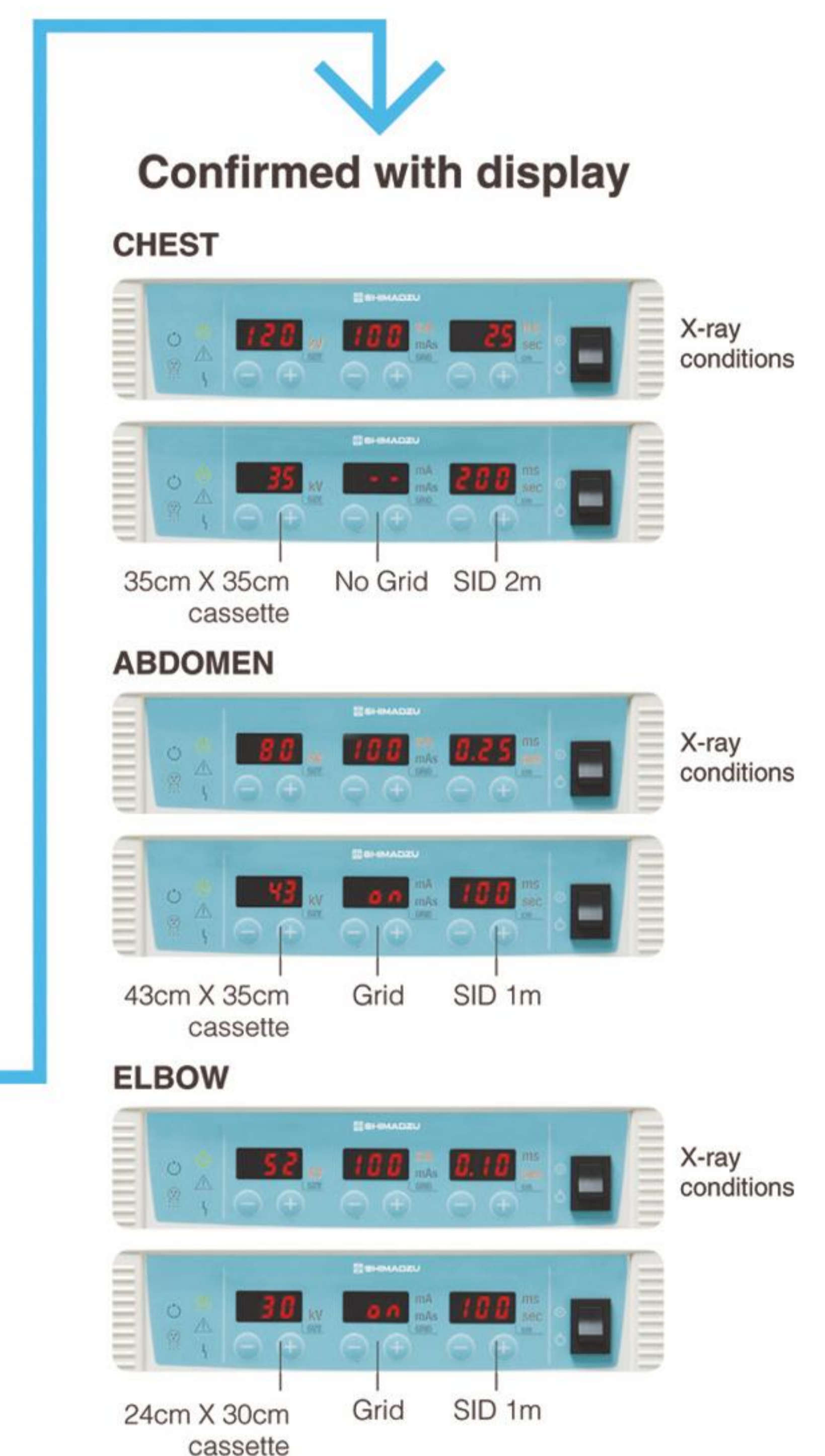
The ultra compact console is an expression of Shimadzu's leading edge technology.

Ease of Operation

- * Easy-to-set Anatomical Programs
- * 432 preset memory
- * Durable Soft touch keypad
- * Large LED display of Kv mA mAs



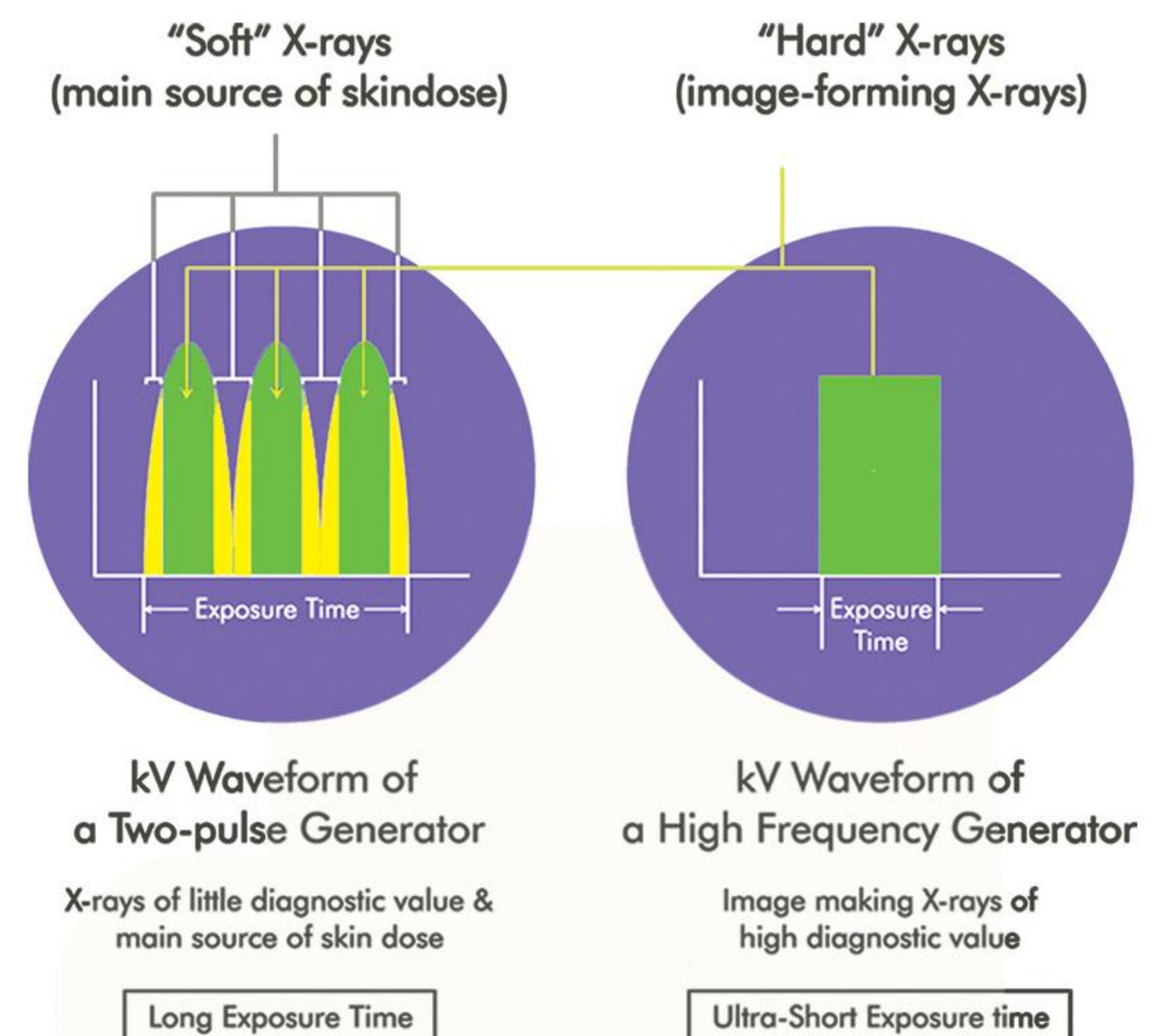
(cassette size display is selectable, cm / inch)



High Frequency Inverter Technology

High frequency inverter technology produces more efficient X-ray which has the following benefits.

- Twice that of a single phase full wave rectified system
- Reduced exposure time
- Less radiation dose to the patient
- Produces High Quality & High definition images

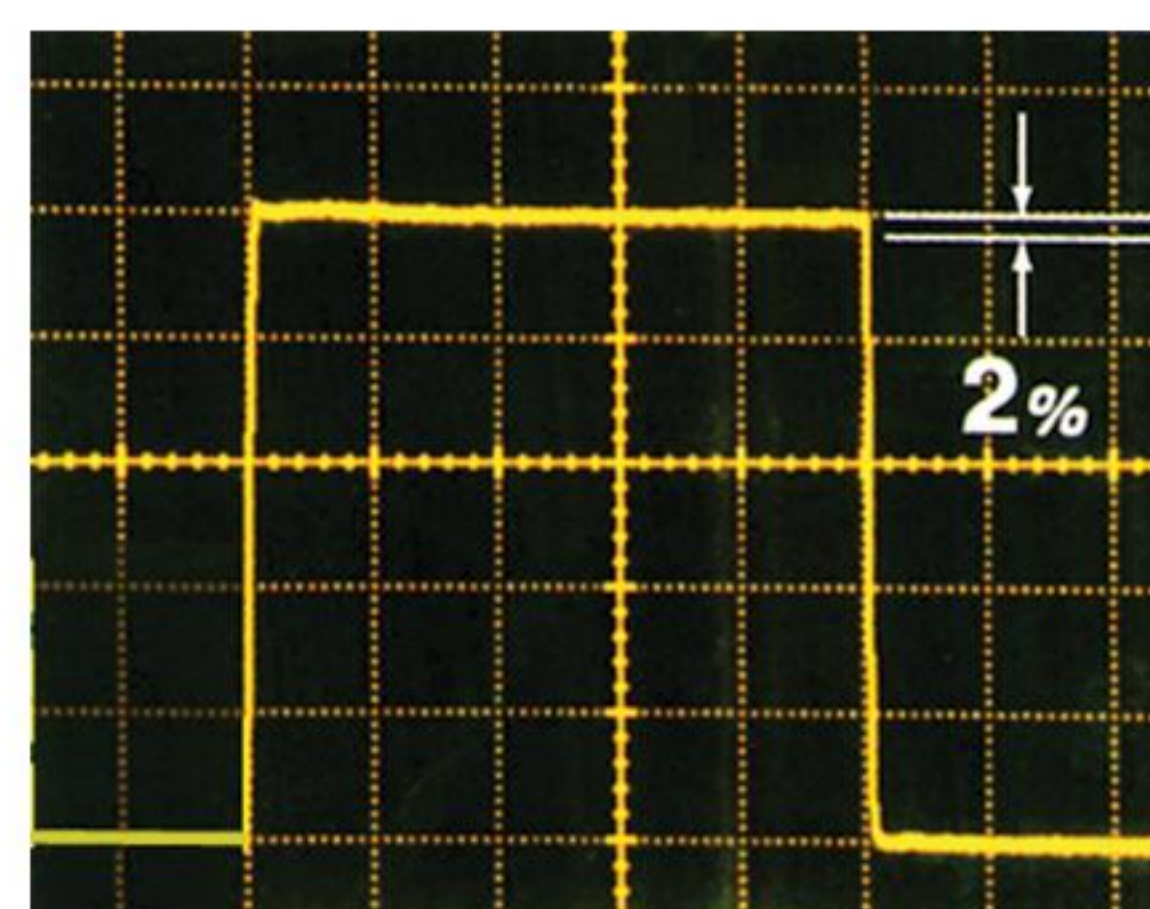


60kHz

Low Ripple Output

High X-Ray quantum efficiency

High Frequency Inverter Technology



Q-Rad - Reliability, Performance, Patient Comfort & Safety

Flexibility

Q-Rad Generators are available in two version to meet different clinical needs.



UD125 P-C

UD125 P-C provides a wide mAs range of 0.5 - 320 mAs. It can be installed in any clinical environment where power supply of 200-240V, 20 KVA at 50/60 Hz is available.



UD125 P-CH

UD125 P-CH (Houseline System) can be operated with typical 15 Amp Plug as the power requirement is as low as 1.5 kVA. This provides ease of installation & usage. The houseline feature makes it possible to extend benefits of modern medical imaging to areas where only household rated power supply is available.

Easy Setting



High Output **16kw** High Current determines image quality **200 mA** High mAs for all types of patients **320 mAs**

*House line Model 100mAs

Choice of Configuration

X-Ray diagnostic table options

- Fixed table top
- Floating table top
- Five position table

Tube Stand options

- Floor to ceiling columns
- Floor to wall columns

Collimator options

- Manual LBD
- Multi-Leaf collimator

Compact size

Wall-mounted console & a small foot print required for the generator makes the installation of Q-Rad possible in minimum floor area. AERB norm stipulates, a minimum area of 18 Sq.metre.



HF Generator

Minimum installation space



SPECIFICATIONS

High Voltage X-ray Generator

Model	UD 125 P-C (standard)	UD 125 P-CH (Houseline)
Control Method	High Frequency Inverter technology	
Max Power	16KW	
Kvp Range in steps of 1Kvp	40-125Kvp	
mA Range	63 - 200mA	
mAs Range	0.5 - 320mAs	0.5 - 100mAs(200mAs)*
Exposure time range	0.0025 - 5Sec	
Anatomical Programme(APR)	432 Presets	
Display Parameters	KV, mA, mAs	
Normal Power Voltage 50Hz	Three Phase 440 VAC Connected to single phase only	Single-Phase 200/230 VAC
Required Current Rating	50A	15A
X-ray Tube Unit		
X-ray tube type	Rotating Anode	
X-ray tube focal spot	Dual focal spot	
small focus	1mm x 1mm	
Large focus	2 mm X 2 mm	
Anode heat capacity	140 KHu	

*Available Options

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 radiation field at 100cm SID. Accessory rails provided



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 tray and grid



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 pedal is pressed)

X-Ray tube support

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

SHIMADZU
Solutions for Science
since 1875

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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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