



# Definium™ XR6000

## Analog Radiography System

Definium XR6000 is a commercial configuration of the XR6000



### System Application

The Definium XR6000 is a general purpose radiographic system with high frequency generator, integrated table and wall stand, providing you the latest technology, and image quality with a small footprint.

- Free-standing system with minimum room preparation time.
- No ceiling support allows it to fit almost any room configuration.
- Large travel range of tube, wide range of tube rotation, large patient coverage of table allows Definium XR6000 meet your clinical requirements.
- Standard icons and user friendly interface provides the easy way of using the system.

### So reliable. So versatile. So much value.

Specifically designed for basic radiography, the Definium XR6000 delivers reliable service and extreme uptime. Extensive testing documents its robust performance which includes:

- X-ray tube built to endure more than 40,000 exposures
- Easy access to the generator and power distribution unit for fast servicing

### Image almost any patient—easily

The tabletop floats four ways, so positioning for X-rays is easy for staff and comfortable for patients. The tube stand rotates 180 degrees, making it possible to image patients in wheelchairs or on trollies without moving them to the table. And large patients are no problem, as the table accommodates up to 220 kg (484 lb).

### Features & Functions

- High frequency generator.
- Auto tracking between the tube stand and the
- table cassette tray
- Programmable APR 270
- AEC available for option
- Multiple grid available for different applications and different usages
- DAP meter for dose monitoring with integrated display

Fixed Table:	
Table top movement	Fixed table Integrated tube-stand, four-way floating tabletop with electromagnetic brake, use foot pedal to lock and release.
Table top dimensions	2100mm x 760mm
Height from floor	650mm
Table top-to-film distance (OID)	55mm
Max source to image distance (SID)	>1200mm
Table top Al. equivalence	Maximum tabletop filtration 0.7mmAl @100kV
Table top weight limit	220kg
Longitudinal travel	≥900mm
Lateral table top travel	220mm±10mm
Table locks	Electromagnetic brakes
Table lock controls	Full-length foot switch along table base
Bucky travel	≥540mm
Grid	40lp/cm or 60lp/cm, for F100cm
Cassette Bucky Sizes	Standard Cassette Tray sizes: 8"x10",10"x12",11"x14",14"x17",17"x17". (Equivalent Metric Size: 20 x 25cm, 25 x30cm, 28 x 35cm, 35 x 43cm, 43 x 43 cm)
AEC	Available for option
Tube Stand	
Longitudinal movement	1600mm
Vertical movement	Vertical range 1300mm. (From tube focus to ground 500mm to 1800mm)
Tube rotation range	± 180° (detents at +90°, 0°, -90°)
Tube Angle range	± 120° (locked at any angle)
Tilting range	± 20°
Wallstand	
Vertical movement	Vertical movement range 1100mm, from cassette center to ground 500mm to 1600mm.
Wallstand Al filtration	Maximum wallstand panel filtration 0.7mmAl @100kV
Cassette Bucky Sizes	Standard Cassette Tray sizes: 8"x10",10"x12",11"x14",14"x17",17"x17". (Equivalent Metric Size: 20 x 25cm, 25 x30cm, 28 x 35cm, 35 x 43cm, 43 x 43 cm)
Grid	40lp/cm or 60lp/cm, for F180cm
AEC	Available for option

## COLLIMATOR

<b>Collimator type</b>	Manual, Multilayer, square field X-ray collimator
<b>Field size</b>	from 0x0 up to 17"x17" at a 102 cm SID can be obtained
<b>Lighting timer</b>	30sec
<b>Collimator rotation</b>	± 45°
<b>Alignment light</b>	LED
<b>Inherent filtration</b>	1.5mm AL @ 100kV
<b>SID measuring</b>	Retractable measuring tape
<b>DAP (optional)</b>	External DAP with rails for a Manual collimator upgrade <ul style="list-style-type: none"> <li>• Al filtration: 0.2mm AL@70KV</li> <li>• Typical Dose/DAP value: 90µGy, DAP 10.5µGy*m2</li> </ul>

## High Frequency Generator

<b>Power output</b>	Maximum output power is 50kW (630mA@80kV), nominal output power is 50kW (500mA@100kV, 0.1s)
<b>KVp range</b>	40 – 150 kVp in 1 KV increment
<b>mA Range</b>	10mA~630mA
<b>Exposure time range</b>	0.001s~6.3s
<b>mAs range</b>	0.5mAs~630mAs (No AEC), 0.5mAs~630mAs (AEC)
<b>Anatomical Programming</b>	Programmable APR 270
Microprocessor Controlled. Auto diagnostic System	
Tube overload protection monitoring of the remaining X-Ray Tube Heat Units	
Prep./Exposure X-ray hand-switch	

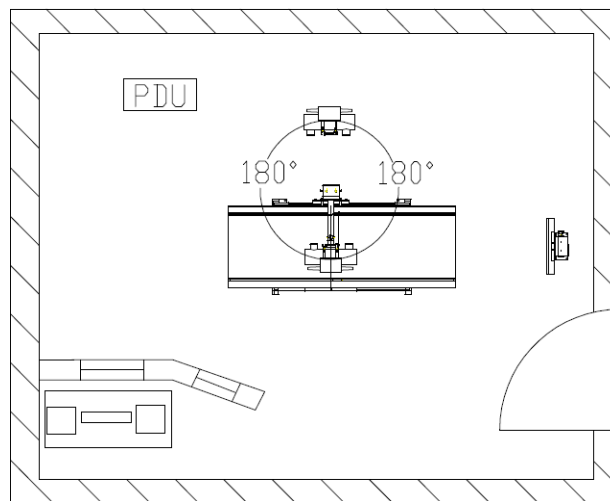
## X-Ray Tube

<b>Tube type</b>	Rotating Anode	
<b>Anode range</b>	40 – 150 kVp in 1 KV increment	
<b>Rotation speed</b>	2700rpm(@50Hz) /3200(@60Hz)	
<b>Nominal focal spot</b>	Small: 0.6mm	Large: 1.2mm
<b>Nominal anode input</b>	Small: 22kW	Large: 50kW
<b>Target angle</b>	12o	
<b>Max Anode Heat Content</b>	150KHU	
<b>Max Tube Assembly Heat Content</b>	900kJ	

<b>Max continuous heat dissipation</b>	180W (15kHU/min)
<b>Max X-ray Tube assembly heat content</b>	900kJ (1250kHU)
<b>Inherent Filtration for the X-Ray Tube Assembly</b>	1.3mm Al at 75kV.

### Room Consideration

<b>Recommended Room Length</b>	6000mm
<b>Minimum Room Length</b>	5500mm
<b>Recommended Room Width</b>	6000mm
<b>Minimum Room Width</b>	5000mm
<b>Recommended ceiling height</b>	3000mm
<b>Minimum ceiling height</b>	2500mm



### Humidity

<b>Operating ambient humidity</b>	30% to 75% relative humidity, non-condensing
<b>Non-operating ambient humidity</b>	20% to 90% relative humidity, non-condensing

### Atmospheric Pressure

<b>Operating ambient atmospheric pressure</b>	700hPa to 1060hPa
<b>Non-operating ambient atmospheric pressure</b>	700hPa to 1060hPa

### Audible Noise

<b>Operating noise</b>	Does not exceed 65dBA, when measured at the distance of one meter from any subsystem or component with an ambient noise level of 40 dBA.
<b>Idle state noise</b>	Does not exceed 60dBA, when measured at the distance of one meter from any subsystem or component with an ambient noise level of 40 dBA.



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