

Should there be a compact option that does not compromise capabilities?

Precisely.



X-RAD® iR-160 Biological X-ray Irradiator

The X-RAD iR-160 is a compact cabinet X-ray irradiator designed for superficial irradiation studies, and is ideal for delivering high doses to cell and tissue cultures.

The Operator Interface is simple to use and yet offers the greatest amount of flexibility for performing high and low dose exposures over a broad range of settings.

Available Options:

- Dual focus X-ray tube for combined imaging/irradiation use
- Fixed beam limiting apertures
- Motorized turntable

Precision X-Ray is the leader in X-ray irradiation systems with hundreds of installations worldwide.

Contact us for additional configuration options or product information.

X-RAD® iR-160 Biological X-ray Irradiator

Technical Data



Cabinet Features

- Adjustable Sample Shelf: 10 to 95 cm SSD
- Changeable Beam Conditioning Filter Slides
- Cabinet Port to introduce small tubing and cables into chamber area
- Complies with US and International regulations for Cabinet X-ray systems

Cabinet Size and Weight

- Overall Dimensions: 30"(75 cm)w x 29"(73 cm)d x 62"(157 cm)h
- Irradiation Chamber: 26"(65 cm)w x 26"(65 cm)d x 42"(106 cm)h
- Weight: 48": 2395 lbs (1089 kg)

Power Requirement

- 1N PE 208-230 VAC, 50/60 Hz, 8 KVA

High Voltage Generator

- Maximum Output Voltage: 160 KV
- Maximum mA: 45

X-ray Tube

- Maximum Potential: 160 KV
- Maximum Power: 3000 W
- Type: Metal Ceramic, Fixed Anode, Water Cooled
- Focal Spot: 7.5 mm (per EN12543)
- Inherent Filtration: 0.8 mm Be
- Cooling Pump: Water-Air

Dose Output

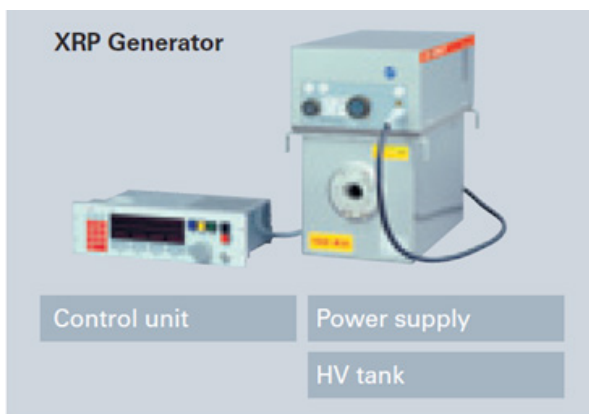
- Raw Beam: ≈60 Gy/min at 160 KV, 19 mA, 30 cm SSD
- Filtered Beam: ≈6.5 Gy/min at 160 KV, 19 mA, 30cm SSD, (Filter = 2 mm Al)

Operators Control

- KV Setting & Display Accuracy: 7.5 KV – 160 KV in 0.1 KV increments
- mA Setting & Display Accuracy: 0.5 mA to 45 mA in 0.01 mA increments
- Settings Accuracy: < 1%
- Exposure Timer: 2-600 seconds or 10-99.9 minutes or continuous
- Programmable Settings: 500 locations to recall exposure parameters

Additional X-ray Unit Features

- Automatic warm-up



For further information: visit our web site www.pxinc.com or contact us at sales@pxinc.com

