

# X-RAD® iR-160 Biological Irradiator



The **iR-160** is a compact version of the popular X-RAD 160c and is designed for installations where space is limited.

The **iR-160** is available with a 48" internal working height with a fully adjustable specimen shelf.

The **iR-160** can be configured for irradiation only, or combined for irradiation and radiographic imaging depending on X-ray tube selected.

#### Available Options:

- Dual Focus X-Ray tube for combined use
- Lead Glass Viewing Window
- TouchRAD Control
- Dose Measurement & Control
- Beam Conditioning Filters
- 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 Series Multi Language C Control



Cabinet Interior with Filter Holder & Adjustable Shelf

# X-RAD® iR-160 Biological X-Ray Irradiator

## Technical Data

### Cabinet Features

- Adjustable Sample Shelf: 10 to 100cm 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"(75cm)w x 29"(73cm)d x 48"(120cm)h Irradiation Chamber:  
26"(65cm)w x 26"(65cm)d x 42"(106cm)h  
Weight: 48": 760 lbs (345 kg)

### Power Requirement

1N PE 230 VAC, 50/60 Hz, or 3N 400 VAC  $\pm$ 10%, 50/60 Hz, 10 KVA

### High Voltage Generator

Maximum Output Voltage: 160 KV  
Maximum mA: 45

### X-ray Tube

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

### Dose Output

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

### Operators Control

KV Setting & Display Accuracy: 5KV – 160 KV in 0.1 KV increments  
mA Setting & Display Accuracy: 0.1mA to 45 mA in 0.01 mA increments  
Settings Accuracy: < 1%  
Exposure Timer: 1-999 seconds or 0.1-99.9 minutes or continuous  
Programmable Settings: 500 locations to recall exposure parameters

### Additional X-Ray Unit Features

Automatic warm-up with Intelligent Tube Conditioning  
Graphical User Interface for operation simplicity  
Selectable Multi-language Display

For further information: visit our web site [www.pxinc.com](http://www.pxinc.com) or contact us at [sales@pxinc.com](mailto:sales@pxinc.com)