

Does the newest generation  
of research cell irradiators  
mean superior performance?

Precisely.



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

The X-RAD 160 is a self-contained X-ray irradiation system for high and low dose radiation studies normally conducted in research laboratories. The cabinet requires no additional shielding and features an adjustable specimen shelf and filter station to provide ultra stable and uniform dose delivery.

The TouchRAD Control is multi-user, password protected touch screen interface with a transportable database that can track individual system usage. Passwords, programmed exposure settings, and database management are controlled by a super-user.

### Available Options:

- Collimators
- Dose Measurement & Control
- Holding Fixtures

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® 160 X-Ray Biological Irradiator

## Technical Data

### Cabinet Features

Cabinet Features  
Adjustable Sample Shelf: 15cm to 63cm SSD  
Changeable Beam Conditioning Filter Slides  
User Entry 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: 47"(119cm)w x 35"(89cm)d x 77"(196cm)h  
Irradiation Chamber: 14.75"(42cm)w x 15"(42.75cm)d x 22"(55cm)h  
Weight: 2395 lbs (1089 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: >50 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: 1-9999 seconds  
Programmable Settings: Thousands of locations to recall exposure parameters  
Users & Super-users: >1 thousand individual accounts can be created

### Additional X-Ray Unit Features

Automatic warm-up with Intelligent Tube Conditioning  
Graphical User touch screen interface for operation simplicity  
Individual user passwords required for system operation  
Excel database of exposure & user history can be downloaded to a USB flash drive

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)

