

# X-RAD 160HD Biological X-Ray Irradiator



The **X-RAD 160HD** is a self-contained high output X-ray irradiation system designed to deliver the highest dose possible at 160kV.

The cabinet requires no additional shielding and features an adjustable specimen shelf and filter station to provide ultra stable and uniform dose delivery.

The X-RAD Control is an easy to use multi-language interface with all X-ray parameters and system status clearly displayed.

Programmable exposure settings allow for fast and repeatable exposure setup.

Several Beam collimators and Dose Measurement and Control Options are also available. Contact PXI for additional information



X-RAD Series HD Control



Filter Holder & Sample Shelf

# X-RAD 160HD Biological X-Ray Irradiator

## Technical Data

### 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"(118cm)w x 32"(80cm)d x 83"(207cm)h
- Irradiation Chamber: 14.75"(42cm)w x 15"(42.75cm)d x 22"(55cm)h
- Weight: 1600 lbs (550 kg)

### Power Requirement

- 1N PE 230 VAC  $\pm 10\%$ , 50/60 Hz, 50A

### High Voltage Generator

- Maximum Output Voltage: 160 KV
- Maximum mA: 100mA

### X-ray Tube

- Maximum Potential: 160 KV
- Maximum Power: 6000 W (higher power option available)
- Type: Metal Ceramic, Fixed Anode, Water Cooled
- Focal Spot: 5.5 mm (per EN12543)
- Inherent Filtration: 4.0mm Be
- Cooling Pump: Water-Air or Water-Water models available

### Dose Output

- Raw Beam:  $>100$  Gy/min at 160KV, 37.5mA, 30 cm SSD
- Filtered Beam:  $\geq 10$  Gy/min at 160KV, 37.5mA, 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 100 mA in 0.01 mA increments
- Overall Accuracy:  $< 80$  ppm/deg C
- Exposure Timer: 1 second to 99 minutes 50 seconds
- Programmable Settings: 100 locations to recall exposure parameters

### Additional X-Ray Unit Features

- Automatic warm-up with Intelligent Tube Conditioning
- Modern 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:

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