

X-RAD 160C Biological X-Ray Irradiator



The **X-RAD 160C** 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 X-RAD Control is a multi-language selectable graphical 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 Cabinet shown with optional Dose Measurement & Control



Filter Holder & Sample Shelf



X-RAD Series Multi Language C Control

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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"(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: 1600 lbs (550 kg)

Power Requirement

- 1N PE 230 VAC, 50/60 Hz, 35A

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 or contact us at:

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