PXi PRECISION X-RAY

Shouldn't the most accurate research cell irradiator also have the ability to deliver higher doses?

Precisely.


# X-RAD® 225HP Biological Irradiator

The X-RAD 225HP 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® 225HP X-Ray Biological 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”(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 ±10%, 50/60 Hz, 7KVA

### High Voltage Generator

Maximum Output Voltage: 225 KV
Maximum mA: 45

### X-ray Tube

Maximum Potential: 225 KV
Maximum Power: 4000 W
Type: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot (2): 1mm, 5.5mm, (per EN12543)
Inherent Filtration: 1mm Be
Cooling Pump: Water-Air or Water-Water models available

### Dose Output

Raw Beam: >12 Gy/min at 225KV, 18mA, 30cm SSD
Filtered Beam: >6.4 Gy/min at 225KV, 18mA, 30cm SSD, (Filter = 2mm Al)

### Operators Control

KV Setting & Display Accuracy: 5 – 225KV in 0.1 KV increments
mA Setting & Display Accuracy: 0.5mA to 45mA 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 or contact us at sales@pxinc.com**

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