

# X-RAD 225C Biological X-Ray Irradiator



The **X-RAD 225C** 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

# **X-RAD 225C 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"(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: 225 KV  
Maximum mA: 45

### **X-ray Tube**

Maximum Potential: 225 KV  
Output 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 225KV, 19mA, 30 cm SSD  
Filtered Beam: >7.5 Gy/min at 225KV, 19mA, 30cm SSD, (Filter = 2mm Al)

### **Operators Control**

KV Setting & Display Accuracy: 5KV – 225 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: 250 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:

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