

# MultiRad225

Ideal for larger cell cultures and small animal applications

**A compact, fully-shielded, self-contained x-ray irradiator that can be used almost anywhere, by anyone.**

The MultiRad225 is a high power research platform used for cell and tissue cultures and ideal for targeted irradiation of small animals.

Offering a range of options, including programmable motorized shelf for infinitely variable SSDs, the system is cost effective and free of costly licensing, security and source maintenance fees, which provides a much lower cost of ownership than competitive products.

## Key Features

No specialized x-ray knowledge needed to operate

Easy to use with an intuitive touchscreen control panel

Fully integrated system with closed-loop cooling

Integrated dosimeter with advanced Automatic Dose Control (ADC) for exact dose setting

Automatic warm-up and tube conditioning for extended tube life

Secure system requiring a password login

Remote diagnostics and support over the web from product specialists





# MultiRad225

## Cabinet Features

No additional shielding required
Adjustable sample shelf
Electrically-operated turntable to ensure uniform dosing, 2RPM
Interchangeable beam conditioning filters
Integrated closed-loop heat exchanger
Cabinet port to introduce small tubing and cables to the chamber area
Complies with US and International regulations for Cabinet X-ray systems

## Interface Features

On-unit, graphical user touch-screen interface
Individual user passwords required for system operation

## Cabinet Specification

Overall dimensions: W 43"(108cm) x D 35"(88cm) x H 74"(188cm)
Irradiation Chamber: W 16"(41cm) x D 17"(43cm) x H 23"(58cm)
Weight: 2550lbs (1160kg)
Power: 220VAC $\pm$ 10%, 50/60Hz, single phase, 7.5 KVA

## High Voltage Generator

Maximum Output Voltage: 225kV
Maximum Current: 30mA

## X-ray Tube

Max. Potential: 225kV / 17.8mA
Max. Power: 4000 W
Focal Spot, irradiation: 5.5mm <sup>2</sup> (per EN12543)
Focal Spot, imaging: 1.2mm <sup>2</sup> (<0.5mm IEC) (per EN12543)
Inherent filtration: 2.0mm Beryllium
Beam angle: 40° divergence
Beam coverage range: 3.6" (9cm) – 16.0" (40cm) diameter
Source to sample range: 5.2" (13cm) – 26.0" (65cm)

## Dose Output

Up to 285 Gy/min at 225KVp, 17.8mA (unfiltered)
Up to 42 Gy/min at 225KV, 17.8mA (2mm Al)
Up to 26 Gy/min at 225KV, 17.8mA (0.3mm Cu)

## Operators Control

Exposure Time: programmable or continuous
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## Options

**Programmable Motorized Shelf**

**Adjustable Beam Collimator**

**Automatic Filter Selection**