

# MultiRad225

## 225kV X-Ray Irradiation System

**The smaller, simpler, safer alternative to radioisotope irradiators.** Precision's MultiRad225 is the perfect system for supplying higher dose to multiple, larger cell and tissue cultures and providing increased dose depth irradiation of small animals.



# MultiRad225

The MultiRad225 is a fully-shielded, self-contained x-ray irradiator that can be used almost anywhere, by anyone. There are no costly licensing, security, or source maintenance fees providing a much lower total cost of ownership than radioisotope irradiators.

Contact us today!

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## Features & Benefits

- No additional x-ray shielding required
- No specialized x-ray knowledge needed to operate
- Prescriptive, touchscreen control interface for ease-of-use
- Password login for system security
- Automatic warm-up and tube conditioning for extended tube life
- Electrically-operated turntable to ensure uniform dosing
- Integrated dosimeter with advanced Automatic Dose Control (ADC) for setting exact dose
- Interchangeable beam conditioning filters
- Port for ventilation and introducing auxiliary tubes and/or cables
- Fully integrated, closed-loop cooling system
- Remote diagnostics and support over the web
- Optional programmable motorized shelf for infinitely variable SSDs (manual adjustable shelf included)
- Optional imaging upgrade available with 23cm x 29cm high-resolution CMOS detector (imaging limited to 160kVp)
- Optional Adjustable Collimator and Automatic Filter Selection
- Tested to meet US and International safety and electrical requirements

## Specifications

Energy range	up to 225kV
Tube current at max voltage	17.8mA
System power	4000W
Dose rate (225kVp, 17.8mA)	up to 285Gy/min (unfiltered)
	up to 42Gy/min (2mm Al)
	up to 26Gy/min (0.3mm Cu)
Focal spot size (EN 12543)	5.5mm for irradiation
	1.2mm (<0.5mm IEC) for imaging
Inherent filtration	1.2mm Beryllium
Beam angle	40° divergence
Beam coverage	3.6" (9cm) - 16.0" (40cm) diameter
Source to sample distance	5.2" (13cm) - 26.0" (65cm)
Exposure time	programmable or continuous
Power requirements	220 VAC +/- 10 %, 50/60Hz, single phase, 7.5kVA
Cooling	integrated closed-loop heat exchanger
Specimen turntable	electrically-operated, 2 RPM
Chamber dimensions	23" H x 16" W x 17" D (58cm x 41cm x 43cm)
External dimensions	74" H x 43" W x 35" D (188cm x 108cm x 88cm)
Weight	2550lbs (1160kg)

