

MultiRad160

The high powered choice for cell and tissue culture irradiation

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

The MultiRad160 is designed for irradiating larger cell and tissue cultures, and offers the same great features as the higher energy models.

Options include a programmable motorized shelf for infinitely variable SSDs and high resolution imaging with a digital detector, delivering a cost effective system free of costly licensing, security and source maintenance fees, providing 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





MultiRad160

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: 2120lbs (960kg)
Power: 220VAC \pm 10%, 50/60Hz, single phase, 7.5 KVA

High Voltage Generator

Maximum Output Voltage: 160kV
Maximum Current: 30mA

X-ray Tube

Max. Potential: 160kV / 25mA
Max. Power: 4000 W
Focal Spot, irradiation: 5.5mm ² (per EN12543)
Focal Spot, imaging: 1.2mm ² (<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 300 Gy/min at 160KVp, 25mA (unfiltered)
Up to 32 Gy/min at 160KV, 25mA (2mm Al)
Up to 16 Gy/min at 160KV, 25mA (0.3mm Cu)

Operators Control

Exposure Time: programmable or continuous

Options

Programmable Motorized Shelf
Adjustable Beam Collimator
Automatic Filter Selection