



## Dedicated Benchtop Cell Irradiator

### CellRad® by Faxitron®

Improve your workflow and efficiency in the lab with CellRad, a smaller, simpler, safer cabinet x-ray unit that allows you to irradiate cells in your lab without compromising sterility or security.



### CellRad FEATURES

#### Compact and Convenient

The compact size of CellRad minimizes its footprint in the lab and allows the system to be placed on the benchtop, close to cell incubators for user efficiency.

#### Automated Dose Calibration

After automatic warm-up and tube conditioning upon login, a fully automated dose QA is initiated and completed in just over two minutes to ensure accuracy, minimizing any required physics support.

#### Cost-Effective

CellRad is a low-cost alternative to gamma radioisotope and even high-power x-ray irradiators. The system is free from costly licensing, security and source maintenance fees.

#### Easy to Use

CellRad has a simple, prescriptive touchscreen interface that allows for complete exposure settings and user account control with no specialized x-ray knowledge required. Choose between manual exposure mode or set and deliver an exact dose with automatic dose control (ADC).

#### Self-Contained and Safe

CellRad is fully shielded and exceeds FDA radiation safety standards. It is self-contained with no additional x-ray shielding or external cooling required; simply plug into any standard A/C outlet. The unit is also NRTL Certified by Intertek for Electrical Safety.

## CellRad Specifications



<b>Energy range</b>	10 - 130kV
<b>Tube current</b>	0.1 - 5mA
<b>Tube power</b>	650W
<b>Dose rate (130kVp, 5.0mA)</b>	Up to >45 Gy/min (unfiltered) Up to >8 Gy/min (0.5mm Al)
<b>Focal spot size</b>	1.0 x 1.4mm
<b>Inherent filtration</b>	1.6mm Be
<b>Beam angle</b>	40° divergence
<b>Beam coverage</b>	9cm - 27cm diameter
<b>Source to sample distance</b>	13cm - 38cm
<b>Exposure time</b>	5 sec to 180 min (1 sec increments)
<b>Power requirements</b>	100 - 230VAC +/- 10%, 50 - 60Hz
<b>Cooling</b>	Integrated closed-loop heat exchanger
<b>Specimen turntable</b>	Electrically operated, 2 RPM, with integrated dosimeter
<b>External dimensions</b>	30" H x 21" W x 24" D (77cm x 53cm x 61cm)
<b>Chamber dimensions</b>	14" H x 12" W x 12" D (37cm x 30cm x 32cm)
<b>Weight</b>	460lbs (210kg)
<b>Shipping weight</b>	540lbs (245kg)