

# PRECISION

X-RAY IRRADIATION



Advancing  
Research through  
Innovation in X-ray

ACCURATE \ RELIABLE \ REPEATABLE

# Precision X-Ray - the Global Standard for Preclinical X-ray Irradiation and Imaging Research Systems

State-of-the-art research demands high performance and reliable technology to achieve accurate and repeatable results.

Precision X-Ray is the largest dedicated biological cabinet x-ray company, providing safe, reliable, repeatable, high dose rate x-ray irradiators, for modern translational research.

Our mission is to continually develop x-ray systems that help researchers globally, to better understand radiation induced effects in the sciences of molecular biology and cancer research.



## Small Animal IGRT Platform

**Mimicking clinical Radiotherapy imaging and treatments, the SmART+ brings a highly sophisticated expandable platform to the field of Preclinical Research.**

Using Cone-Beam CT,  $\mu$ CT and fully integrated Bioluminescence imaging modalities, SmART+ offers the ability to target and irradiate cells and small animals from mice to NZ rabbits. The Advanced Treatment Planning System allows the user to define targets with multiple beam modifiers, including fixed and variable treatment collimators. This advanced preclinical IGRT system enables you to **Image** SmART, **Plan** SmART and **Treat** SmART.

**The best science requires the best tools... Precision X-Ray delivers.**

We work closely with leading research institutions worldwide to understand their application needs; and lead technological change in radiation research with a complete range of X-ray Irradiation Systems, and a full line of options and accessories for customization to your specific application requirements.

Precision X-Ray is committed to customer service, offering both field and in-house service and telephone support, as well as preventative maintenance contracts to ensure that our customers' equipment is calibrated and operating at peak performance.

“ The research which is now possible with this machine, the X-Rad320, has the potential to change cancer treatment regimens, reduce side affects, and improve quality of life ”

**Professor Pam Sykes**

Flinders Centre for Innovation in Cancer



**Talk to us today: +1 (203) 484-2011**



## Fully Integrated X-ray System

**A series of compact, fully integrated x-ray irradiators that are simpler, safer alternatives to radioisotope irradiators.**

Featuring 350kV, 225kV and 160kV energy ranges with Automated Dose QA, the MultiRad range was designed to deliver plug and play systems with the highest dose and the most uniform beam profile, while requiring the least amount of physics support.



## Expandable X-ray Platform

**The X-Rad Irradiation and Imaging Platform is the standard by which all other irradiator cabinets are measured.**

Widely used around the world due to its flexibility of application with a wide range of kV models, from 160-320kV, and large cabinet sizes, the optional OptiMAX imaging module, and a full line of expandable options and accessories, offering the ability to customize and add to your system as your x-ray research needs grow.



## Benchtop X-ray Irradiator

**Designed for placement directly on the lab benchtop, eliminating the need to transport cells to another facility.**

A dedicated cabinet x-ray cell irradiator that can be located arm's-length from the incubator, the CellRad+ irradiates cells without compromising sterility or security. A great alternative to radioisotope irradiators that is simpler, safer and more cost effective.



Email for more information: [sales@pxinc.com](mailto:sales@pxinc.com)

# Precision X-Ray offers product options and accessories to expand your research.

Customize your system to best support your research efforts.

Options and accessories are available for purchase as part of the system configuration or at a later date. Purchase what you need today, knowing that the system will grow with you as your needs change.



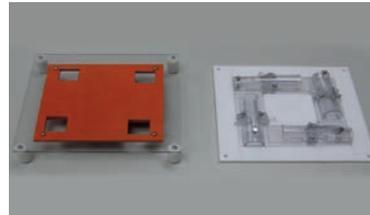
**Fixed Collimators**  
For targeted irradiation studies.



**Pie Cages**  
Total body irradiation pie cages available for both mice and rats.



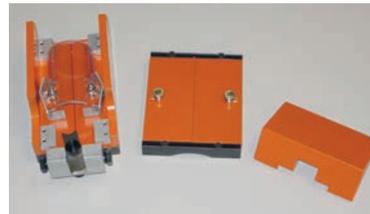
**Conical Tube Holders**  
For uniform dosimetry and "no spill" positioning.



**QUAD Fixtures**  
Available in left and right flank, cranial and thoracic configurations. Quads can be purchased with or without fixtures.



**Exposed Shield**  
Available in two sizes for both head and abdomen. (Fixtures sold separately)



**Head and Spine Shield**  
Fitted with special bite bar and nose clamp assembly.



**Holding Shields**  
Painted lead, 5mm shielding available in two sizes. (Fixtures sold separately)



**Holding Fixtures**  
Clear, acrylic fixtures available in two sizes.

For a complete list of options and accessories, please visit [www.precisionxray.com/accessories](http://www.precisionxray.com/accessories)