

**KUBTEC**<sup>®</sup>  
S C I E N T I F I C

Reliable Irradiation in  
a Wide Range of Doses to  
Meet a Wide Range of Needs

**XCELL**<sup>®</sup>

Free-Standing Irradiator Systems



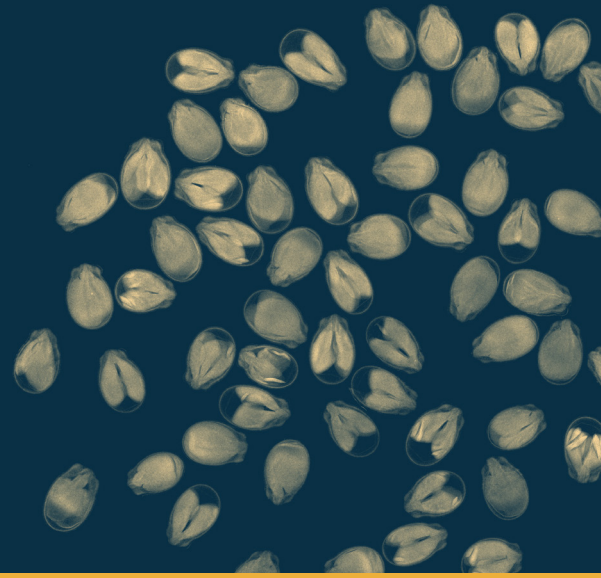
**Safe**  
**Cost effective**  
**Accurate**  
**Powerful**  
**User-friendly**



# KUBTEC® XCELL® Line of Irradiator Systems

Provides researchers with accurate, reliable, and repeatable treatments, saving time and improving efficiency. Our systems cover a wide spectrum of applications, like small animal studies, tissue culture, and food safety research.

X-ray irradiators are seen as the direct replacement for gamma and cesium irradiators which contain harmful isotopes and require licensure from the US Nuclear Regulatory Commission. The KUBTEC line of irradiators are fully US FDA 21 cfr 1020.40 compliant, self-contained fully shielded cabinets, easy to operate with no additional training or licenses required, and provides an affordable solution to fulfill almost any radiation requirement.



## XCELL 160 (1.8 kW / 3.0 kW)

Tube Potential	up to 160 kV
Tube Current	Up to 30 mA
Inherent Filtration	0.8 mm Be
Input Power	220 VAC +/- 10%, 30 Amps, 47/63 Hz Single Phase
Interior Chamber Size	24" L x 24" W x 42" H (61 x 61 x 107cm)
Beam coverage	Collimated at 14" x 14" (36 x 36 cm)
Outside Dimensions	47" L x 38" W x 83" H (118 X 96 X 210 cm)
Optional X-ray Imaging	Yes
Software	DIGISOURCE®, DIGICOM®



## The XCELL 160 Free-Standing X-ray Irradiator

\*Reported values are system-specific and are subject to change without notice  
For more information on XCELL system specifications please reach out to us at [kubtec@kubtec.com](mailto:kubtec@kubtec.com)

# KUBTEC® DIGISOURCE® Software

DIGISOURCE® software comes with all KUBTEC® XCELL® X-ray irradiator systems. The software allows you to control the energy level, irradiation time, and desired dosage for each sample, including the ability to set and monitor both kV and mA levels throughout the treatment. KUBTEC DIGISOURCE is utilized by researchers to deliver radiation to biological and agricultural samples as well as material components. The systems can also be used for investigating the effects of radiation on the immune system, different types of cancer cells, and small animals in scientific studies.

Applications include:

- Cell irradiation
- Small animal irradiation
- Food safety research
- Seed and grain irradiation
- Sterilization of medical devices, instruments and electronics

	<b>XCELL 225 (3.0 kW / 4.0 kW)</b>	<b>XCELL 320 (4.0 kW)</b>
Tube Potential	up to 225 kV	Up to ± 320 kV
Tube Current	Up to 30 mA	Up to 30 mA
Inherent Filtration	0.8 mm Be (3.0 kW) 2.0 mm Be (4.0 kW)	3.0 mm Be
Input Power	220 VAC +/- 10%, 30 Amps, 47/63 Hz Single Phase	220 VAC +/- 10%, 35 Amps, 47/63 Hz Single phase
Interior Chamber Size	24" L x 24" W x 42" H (61 x 61 x 107 cm)	32" L x 32" W x 42" H (81 x 81 x 107cm)
Beam coverage	Collimated at 14" x 14" (36 cm x 36 cm)	Collimated at 14" x 14" (36 cm x 36 cm)
Outside Dimensions	47" L x 51" W x 83" H (118 x 128 x 210 cm)	53" L x 48" W x 86" H (133 x 122 x 218 cm)
Optional X-ray Imaging	Yes	Yes
Software	DIGISOURCE, DIGICOM	DIGISOURCE, DIGICOM



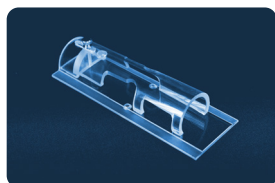
## XCELL® Irradiator Features:

- Fully shielded and secured X-ray irradiator
- Minimal training required
- Self-contained cabinet
- Large irradiation chamber for a range of samples
- Automatic warm-up with intelligent tube conditioning
- Adjustable sample shelf
- Turntable for uniform irradiation of samples
- Dosimeter for accurate exposure
- Optional integrated digital X-ray imaging capability using proprietary DIGICOM® software, available in all free-standing systems
- Optional entry port to introduce anesthesia and monitoring lines

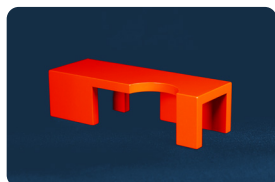
## Mouse Irradiation Kit:



Pie Cage



Partial Body  
Irradiation Restrainer



Partial Body  
Irradiation Shield



Gas Anesthetizing Box

Also available:

## KUBTEC Benchtop X-ray Irradiator Systems

### THE XCELL 50



### THE XCELL 180



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