

X-RAD 320

Biological X-Ray Irradiator by Precision X-Ray

The **X-RAD 320** is a self-contained X-ray irradiation system for delivering a precise radiation dosage to specimens in a biological or small animal research laboratory.

It boasts the following features:

- An Adjustable Specimen Shelf, Sample Viewing Window, and Beam Hardening Filter Folder
- A multi-language X-RAD Control Panel, with a sophisticated graphical interface clearly displaying all X-ray parameters and system status
- Programmable exposure settings, allowing for fast and repeatable exposure setup
- The X-ray tube is used specifically for radiation therapy having a highly homogenous beam
- Options available include: Holding Fixtures, Dose Measurement and Control, Motorized Turntable, Fixed Beam Collimators or Adjustable Collimator



X-RAD 320

TECHNICAL DATA

HIGH VOLTAGE GENERATOR

Maximum Output Voltage: 320 KV
Maximum mA: 45

X-RAY TUBE

Maximum Potential: 320 KV
Maximum Power: 4000 W
Type: Metal Ceramic, Fixed Anode,
Oil Cooled
Focal Spot: 8mm² (per EN12543)

DOSE OUTPUT

Raw Beam: >15 Gy/min at 320KV,
12.5mA, 50cm SSD,
(No Beam Hardening)
Filtered Beam: 3 Gy/min at 320KV, 12.5mA
50cm SSD, (Beam Hardening
Filter = 2mm Al)

OPERATORS CONTROL

KV Setting & Display Accuracy:
5KV – 320 KV in 0.1 KV increments
mA Setting & Display Accuracy:
0.1mA to 45 mA in 0.01 mA increments
Settings Accuracy: < 1%
Exposure Timer:
1-999 seconds or 0.1-99.9 minutes or continuous
Programmable Settings:
250 locations to recall exposure parameters
Graphical User Interface for operation simplicity
Selectable Multi-Language Display

CABINET FEATURES

Adjustable Sample Shelf: 20cm to 90cm SSD
Changeable Beam Conditioning Filter Slides
User Entry Port to introduce small tubing and
cables into chamber area
Complies with US and International regulations
for cabinet X-ray systems

CABINET SIZE AND WEIGHT

Overall Dimensions: 78"(195cm)h x
38"(95cm)w x 42"(105cm)d
Irradiation Chamber: 41"(102cm)h x
30"(75cm)w x 34.5"(86cm)d
Weight: 3800 lbs (1725 kg)

POWER REQUIREMENT

1N PE 230 VAC ± 10%, 50/60 Hz, 11.5 KVA

ADDITIONAL X-RAY UNIT FEATURES

Automatic warm-up with Intelligent
Tube Conditioning
Proven long term reliability of
system components



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