

X-RAD 160C + 225C

Biological X-Ray Irradiators by Precision X-Ray

Both the **X-RAD 160C + 225C** are self-contained X-ray irradiation systems for high and low dose radiation studies normally conducted in research laboratories.

Each cabinet boasts the following features:

- An Adjustable Specimen Shelf and Filter Station to provide ultra stable and uniform dose delivery
- No Additional Shielding required
- Programmable exposure settings, allowing for fast and repeatable exposure setup
- Options available include: Several Beam collimators, Dose Measurement and Control



X-RAD 160C + 225C

TECHNICAL DATA

HIGH VOLTAGE GENERATOR

X-RAD 160C Maximum Output Voltage: 160 KV

X-RAD 225C Maximum Output Voltage: 225 KV

BOTH CABINETS Maximum mA: 45

X-RAY TUBE

X-RAD 160C Maximum Potential: 160 KV

X-RAD 225C Maximum Potential: 225 KV

BOTH CABINETS

Output Power: 3000 W
(higher power option available)
Type: Metal Ceramic, Fixed Anode, Water Cooled
Focal Spot: 7.5mm (per EN12543)
Inherent Filtration: 0.8mm Be
Cooling Pump: Water-Air or Water-Water models available

DOSE OUTPUT

X-RAD 160C

Raw Beam: >60 Gy/min at 160KV, 19mA
30 cm SSD

Filtered Beam: >6.5 Gy/min at 160KV, 19mA
30cm SSD, (Filter = 2mm Al)

X-RAD 225C

Raw Beam: >60 Gy/min at 225KV, 19mA
30 cm SSD

Filtered Beam: >7.5 Gy/min at 225KV, 19mA
30cm SSD, (Filter = 2mm Al)

OPERATORS CONTROL

X-RAD 160C

KV Setting & Display Accuracy:
5KV – 160 KV in 0.1 KV increments

X-RAD 225C

KV Setting & Display Accuracy:
5KV – 225 KV in 0.1 KV increments

BOTH CABINETS

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:
500 locations to recall exposure parameters

X-RAD 160C + 225C

CABINET FEATURES

Adjustable Sample Shelf: 15cm to 63cm SS

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



Filter Holder and Shelf

CABINET SIZE AND WEIGHT

Overall Dimensions: 47"(119cm)w x
35"(89cm)d x 77"(196cm)h
Irradiation Chamber: 14.75"(42cm)w x
15"(42.75cm)d x 22"(55cm)h
Weight: 1600 lbs (550 kg)

POWER REQUIREMENT

1N PE 230 VAC, 50/60 Hz, 35A

ADDITIONAL X-RAY UNIT FEATURES

Automatic warm-up with Intelligent Tube Conditioning

Graphical User Interface for operation simplicity

Selectable Multi-language Display

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