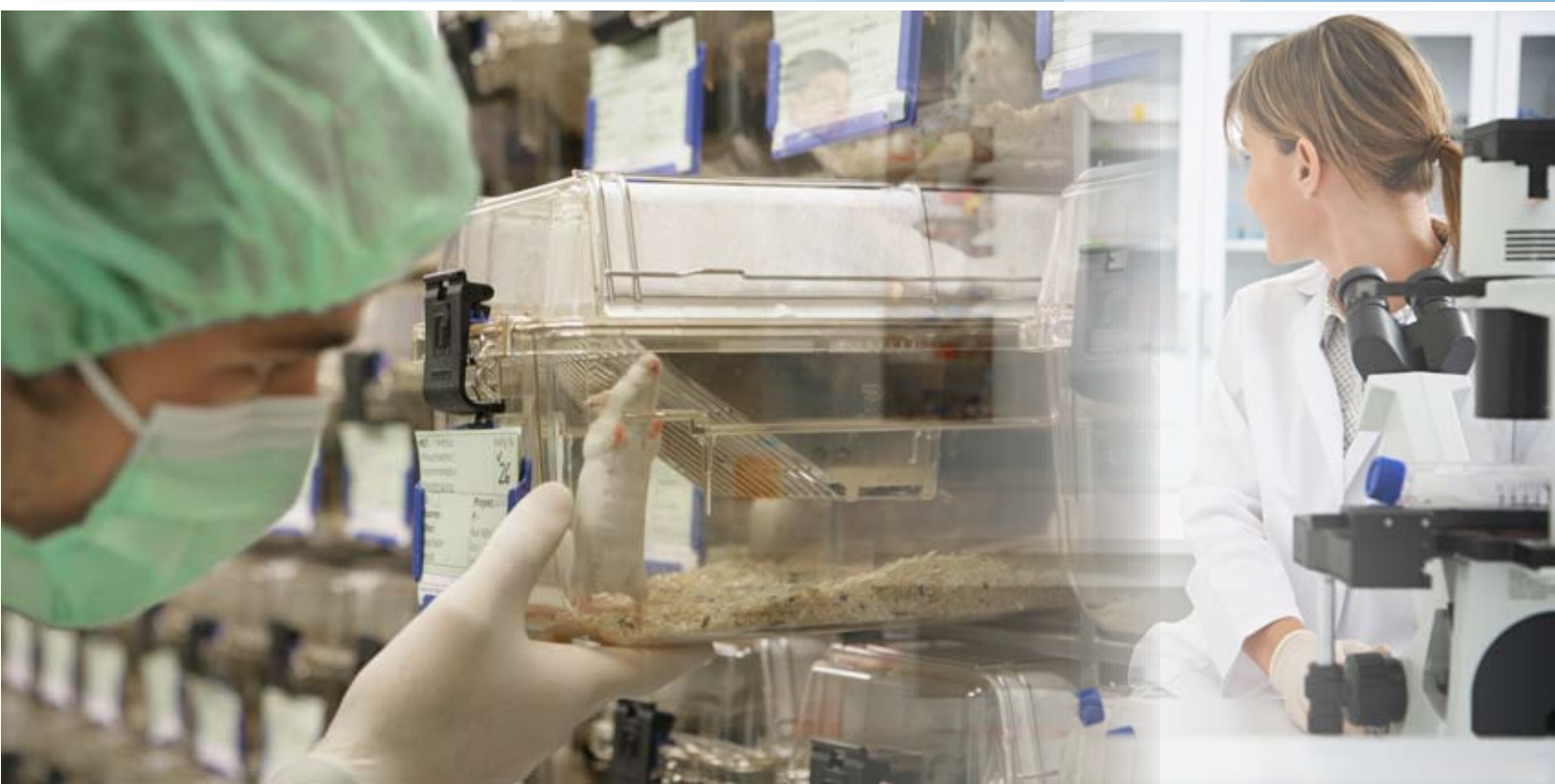
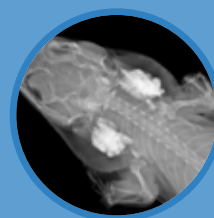
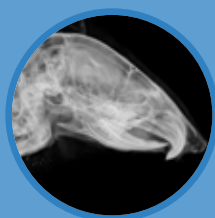


faxitron x-ray



Cabinet X-Ray Systems for Research Applications



Why Faxitron?

Faxitron X-Ray is the global standard in cabinet x-ray systems for animal and agricultural studies. Over the past 30 years, we have developed an installed base of more than 6,000 x-ray imaging and irradiation systems in public and private research facilities and industrial laboratories around the world. Faxitron continues to define cabinet x-ray by developing innovative products to meet the evolving needs of our customers. For both imaging and irradiation, our focus on quality and ease-of-use continues to earn their trust and repeat business.

Researchers utilize the systems in applications ranging from vascular and oncology studies to grain and seed inspection to feeder cell irradiation. Our extensive choice of cabinet sizes and x-ray sources, coupled with imaging options from CR to DR, ensure a Faxitron solution for almost any application.

Faxitron Animal Imaging and Irradiation Systems are small, safe, and simple units that can be located directly in the animal facility to protect the integrity of the colony. Our irradiation units can reduce or eliminate reliance on gamma irradiators that create waste disposal problems and are an increasing concern in respect to homeland security.

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Cabinet X-Ray for Animal Imaging

The Faxitron MX-20 and LX-60 Radiography Systems are utilized in scientific laboratories worldwide to produce highly detailed radiographs of small animals. The compact, self-contained units can be located directly in the vivarium to preserve the integrity of the colony. The systems' large 12 cm x 12 cm cameras offer exceptional 10 lp/mm spatial resolution in the contact mode. Magnification allows for spatial resolution of up to 50 lp/mm with the MX-20 and 60 lp/mm with the LX-60. The 20 μ m nominal focal spot and additional geometric magnification provide ultra high-contrast and high spatial resolution images. Both units can be used with a CR plate and small, upright CR reader to obtain a field of view up to 10" x 12" (25.4 cm x 30.5 cm) or in the digital mode for producing and sharing images in seconds. The LX-60 has a larger cabinet with a higher kV range so is the best choice for larger animals or more dense specimens.

Easy to Operate. Faxitron systems are extremely easy to operate. Simply place the specimen in the chamber, close the shielded, safety-interlocked door, and activate the x-ray. In the digital mode, our advanced DX 1.0 software with ImageAssist™ and Automatic Exposure Control automatically selects the appropriate exposure time and kV settings for the specimen. Other important features include: a post-image processing suite to automatically window-level and sharpen the image; automatic contrast enhancement to provide improved depth and structure in images; and Faxitron On Call™ for real-time, remote system support by Faxitron technical specialists.

Fast Facts about the MX-20 & LX-60

- Like all Faxitron imaging systems, both units feature a one-piece CMOS detector; other makers use tiled detectors that fail to capture data at the tile intersections
- The 20 μ m nominal focal spot is typically 10-12 μ m
- The energy range for the MX-20 is 10-35 kV; for the LX-60 it is 10-60 kV
- With Faxitron On Call you are never more than a telephone call from online technical support at 1-888-465-XRAY



LX-60 shown

Cabinet X-Ray for Agricultural Imaging

The Faxitron MX-20 Radiography System is particularly well-suited for agricultural inspection. Applications include:

- Grain and seed inspection for viability, infestation, damage or contamination
- Wood rings to evaluate seasonal growth characteristics
- Tree bark to inspect for insect infestation
- Fruit for peel thickness and seed development

The MX-20 and our larger LX-60 can both be used with a CR plate and small, upright CR reader to obtain a field of view up to 10" x 12" (25.4 cm x 30.5 cm) or in the digital mode for increased throughput. The MX-20's small focal spot x-ray tube and cabinet design enable up to 5X geometric magnification which is frequently desirable for detailed inspection. If even further magnification or higher kV is required for more dense specimens, the LX-60 is the best choice.

Superior Image Quality. The MX-20 is available with either our 12 cm x 12 cm DC-12 camera or our smaller, less expensive 5 cm x 5 cm DC-5 camera. Both offer exceptional 10 lp/mm spatial resolution in the contact mode. Magnification allows for spatial resolution of up to 50 lp/mm. The 10-12 typical focal spot and additional geometric magnification provide ultra high-contrast and high spatial resolution images.

Easy to Operate. Faxitron systems are extremely easy to operate. Simply place the specimen in the chamber, close the shielded, safety-interlocked door, and activate the x-ray. In the digital mode, our advanced DX 1.0 software with ImageAssist™ and Automatic Exposure Control automatically selects the appropriate exposure time and kV settings for the specimen. Other important features include: a post-image processing suite to automatically window-level and sharpen the image; automatic contrast enhancement to provide improved depth and structure in images; and Faxitron On Call™ for real-time, remote system support by Faxitron technical specialists.



MX-20 shown

Cabinet X-Ray for Irradiation Studies

Faxitron cabinet x-ray systems can decrease or eliminate a laboratory's reliance on heavy, expensive, high maintenance, and potentially dangerous radioisotope irradiators. Applications include:

- Plant and seed irradiation
- Specimen irradiation
- Small animal irradiation
- Oncology research
- Animal food irradiation
- Sterilization studies
- Feeder cell irradiation

Sizes & Power Ranges. Faxitron X-Radiators are available in three cabinet sizes with energy ranges up to 225 kV and tube currents from 100 μ A to 45 mA. For details, see sidebar. The CP-160 and CP-225 are available with a dual focal spot x-ray source – one for irradiation and a smaller spot that's suitable for imaging.

Easy to Operate. Like all Faxitron systems, our irradiation units are safe for use without additional lead shielding. Controls are user friendly, allowing operation by persons with no previous x-ray training. A 2 RPM electrically operated turntable helps ensure uniform dosing. With the new CP cabinet style (shown below), the turntable is mounted on a shelf that is infinitely adjustable for source-to-object distances of 7 in. to 25.4 in. A programmable controller* allows the user to preset warm-up times, time formats, focal spot sizes and other operating modes.

These factors combined with a modest purchase price make Faxitron X-Radiators smaller, safer, simpler, and less costly alternatives to radioisotope irradiators for radiation exposure and oncology studies.

*Not available on the RX-650

Fast Facts about Faxitron X-Radiators™

- RX-650: 10-130 kV, 5 mA (fixed), 650 W max.
- CP-160: 10-160 kV, 100 μ A - 16 mA, 1000 W max.
- CP-160MP: 10-160 kV, 100 μ A - 30 mA, 3000 W max.
- CP-160HP: 10-160 kV, 100 μ A - 45 mA, 4500 W max.
- CP-225: 10-225 kV, 100 μ A - 45 mA, 3000 W max.



CP-225 shown

Faxitron On Call™

If you should ever require technical support with your Faxitron digital imaging system, Faxitron On Call™ on-line support is available to assist you.

1. When you contact our technical support team at 1-888-465-XRAY to explain what specific issues you are experiencing – and assuming your need cannot be resolved over the phone – you will be provided with a support code.
2. After entering your name and the code on the Support page of our website, a small, virus-free screen-sharing plug-in automatically downloads onto your computer.
3. At that point our technical support staff person can remotely access your system and provide the needed assistance directly on your computer as if he or she were sitting next to you.

Important Note:

You can always exercise overriding control via your mouse and keyboard and you can end the screen-sharing session at any time.

Comprehensive Support Plans

For any facility today, uptime is critical. Comprehensive support from Faxitron ensures high-performance operation and superior cost-efficiency. Both our Standard and Productivity Plus support plans add value to your operation by ensuring ongoing productivity. They provide the peace of mind that comes with the assurance that highly trained specialists will respond quickly to your support needs. Thorough up-front training and fast response on repairs contribute to long-term productivity. Having a support plan in place reduces the chance of costly unexpected downtime and minimizes the impact when service is required. With a Faxitron comprehensive support plan your facility gains:

- Priority response
- Maximized uptime
- Extended system life
- Simplified administration
- Lower total cost-of-ownership

All newly purchased Faxitron systems include a one year limited warranty and unlimited phone support. The limited warranty covers all parts and labor, including travel and any shipping charges, for a period of 12 months from the date of delivery.

Safety and Specifications. All Faxitron imaging systems are completely shielded and safe for use without additional operator shielding. The doors have dual safety interlocks that disable the x-ray source when the door is open or if it is accidentally opened during exposure. For comprehensive safety information and detailed specifications visit www.faxitron.com/products/compare.html.

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