

# In Vivo Imaging and DXA Analysis System

# UltraFocus<sup>DXA</sup> by Faxitron®

UltraFocus<sup>DXA</sup> is a fully shielded x-ray cabinet designed for ultra high-resolution imaging and dual-energy x-ray absorptiometry (DXA) analysis.



# **UltraFocus**DXA **FEATURES**

# **Ultra High-Resolution Imaging**

The 10 x 15cm 48µm CMOS detector is mounted in a moveable shelf for both DXA analysis and ultra high-resolution imaging. UltraFocus<sup>DXA</sup> replaces obsolete DXA units and older imaging cabinets with a single, modern, high performance, high throughput system.

## **Automatic DXA Analysis**

In DXA mode, the system automatically calculates bone mineral density (BMD), bone mineral content (BMC), and body composition in under 3 minutes. Both whole body and region of interest (ROI) data can be selected, and separate bone, lean and fat tissue maps are presented to simplify ROI analysis.

# **Automatic Calibration**

UltraFocus<sup>DXA</sup> quickly and automatically calibrates on a daily basis, utilizing our proprietary dynamic calibration routine to ensure reproducibility of results. The preprogrammed DXA scan is initiated with a single click or push of a button.

#### **Self-Contained and Safe**

UltraFocus<sup>DXA</sup> is fully shielded and exceeds FDA radiation safety standards. It is self-contained with no additional x-ray shielding required; simply plug into any standard A/C outlet. The unit is also NRTL Certified by Intertek for Electrical Safety.

## **Accurate Positioning and Measurement**

A laser centering guide and viewing window ensure simple and proper sample positioning. The magnification shelf with field of view guides and automatic position detection provide accurate measurements at any level.

#### **Compact and Convenient**

UltraFocus<sup>DXA</sup> was designed with a manageable footprint for the lab or the barrier facility. Its stainless steel inner chamber allows for easy cleaning and the access port provides a safe method for inserting anesthesia hoses into the chamber for longitudinal studies.

#### **Easy to Use**

No additional training or specialized x-ray requirements are needed to operate UltraFocus<sup>DXA</sup>.





Imaging area	10cm x 15cm (4" x 6")	
Pixel pitch	48µm	hidron
Spatial resolution	8µm at 6X geometric magnification	

# **Specifications**

Energy range	10 - 100kV
Tube current	0.3mA max (isowatt limited to 12W)
Focal spot size, nominal	8µm
Window filtration	0.25mm Be, tungsten source
Power requirements	100-240VAC ±10%, 50/60Hz, 150VA
External dimensions	23" W x 21" D x 36" H (59cm x 54cm x 90cm)
Chamber dimensions	15.4" W x 15.4" D x 22" H (39cm x 39cm x 56cm)
Weight	415lbs (188kg)
Shipping weight	510lbs (230kg)

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