

Xtrim

Preclinical PET Imaging System

PET Detector

- LYSO crystal full ring geometry
- Up to 100 mm transaxial FOV
- Bore opening: 110 mm
- Spatial resolution without resolution recovery: 1.7 mm

Touchscreen interface

- Bed movement control/monitoring
- Count rate performance monitoring
- Basic acquisition control/monitoring
- Stop command

Animal handling

- Capsule structure of the bed
- Semi-automated bed positioning
- Easy bed attach/detach
- Animal body temperature control
- Anesthesia and Oxygen gas flow ports



Characteristics

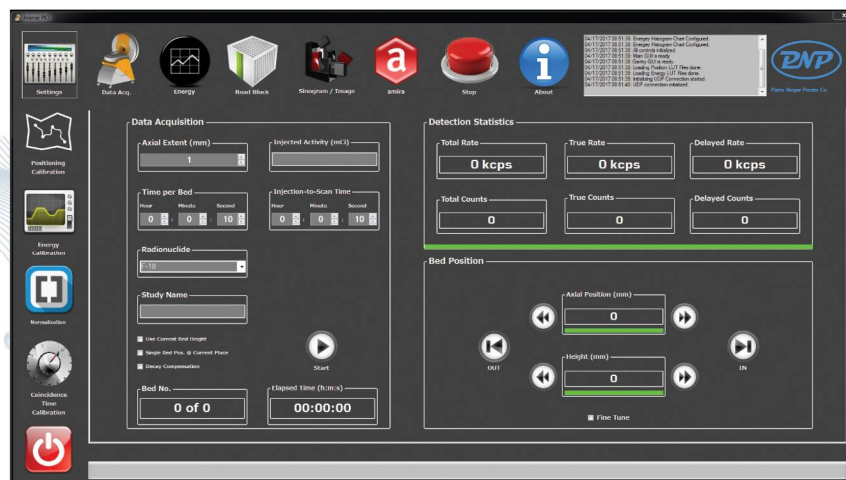
Single-bed axial FOV	5 cm
Number of detector rings	24
Transaxial FOV	100 mm
Bore opening	110 mm
LYSO crystal size	2 mm × 2 mm × 10 mm
Total number of crystals	5,760
Spatial resolution	1.7 mm without resolution recovery
Energy resolution	17%

Room Requirements

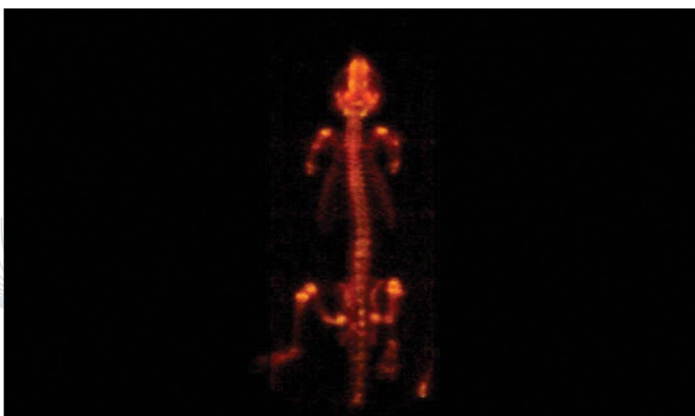
- Minimum room size: 10 m²
- Single phase operation 220 V
- Size (W×D×H): 150×150×180 mm³
- Weight: 250 kg
- Standard air condition (20-25° C)

Software Package

XtrimVision is the software with a user-friendly GUI developed exclusively for Xtrim covering all needs of calibration correction, data acquisition, rebinning, and image reconstruction.



NaF PET image of Rat using Xtrim PET Scanner. Imaging with NaF is the initial method of choice to detect skeletal metastases in cancer.



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