

# MultiScan LFER 150 PET/CT

Large FOV Extreme Resolution Research Imager

IMAGING FOR SCIENCE



World's first sub-mm resolution portable PET/CT scanner featuring ultra low dose imaging.



# Applications

## Sitting non-human primate:

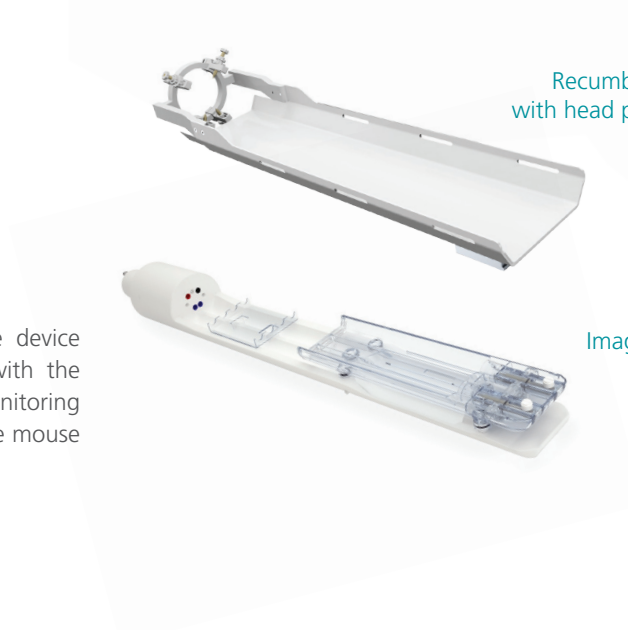
The subject is sitting in a primate chair, docked to the system\*. Height and tilt of the imaging volume can be adjusted to cover the brain. The small dead space in front ensures the view of the animal is not obstructed. The **large field of view** (15 cm axial, 20 cm transaxial) enables dynamic scans without compromise.

(\*Details of the head fixation have to be discussed before ordering.)



## Recumbent mid sized animals:

This setup is intended for imaging anesthetized primates, minipig etc. The MobilCell modular imaging bed is docked to the system. The 60 cm extended axial field of view can cover even the largest animals. Basic pallet and pallet with primate head positioning frame are available.

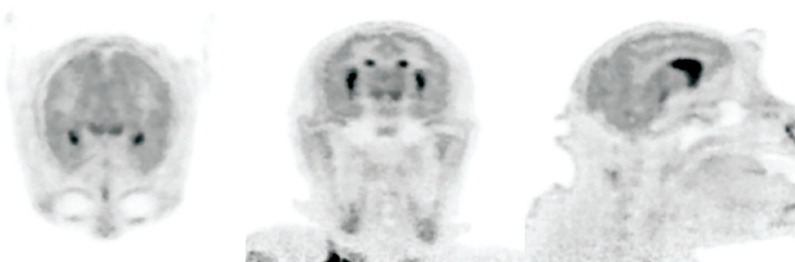


Recumbent monkey bed with head positioning frame

Imaging chamber for multiple mouse

## Small animal imaging:

To utilize the exceptional resolution of the device also for rodent imaging it is compatible with the wide selection of imaging chambers and monitoring system of the MultiCell line. Beds for multiple mouse and rat imaging are available.

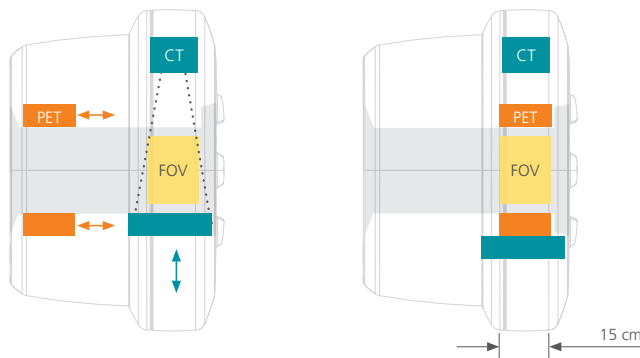
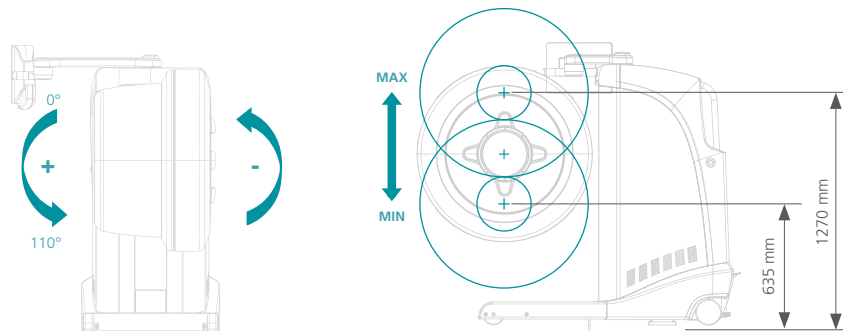


Cynomolgus monkey injected with dopamine transporter ligand [18F]FE-PE2I (dose 143 MBq, 93 min scan). Image courtesy of prof Andrea Varrone, Karolinska Institutet

# Technical Features

When designing the LFER 150 PET/CT we had the most challenging imaging studies in mind: procedures such as imaging the conscious monkey with visual stimulus. The system features several unique solutions that make it the most versatile PET/CT imager on the market

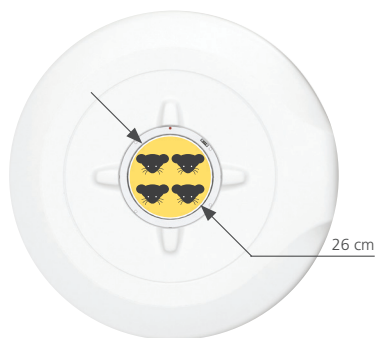
The compact imaging head can be tilted between +/- 110° and the height adjusted between 635 and 1270 mm above floor level.



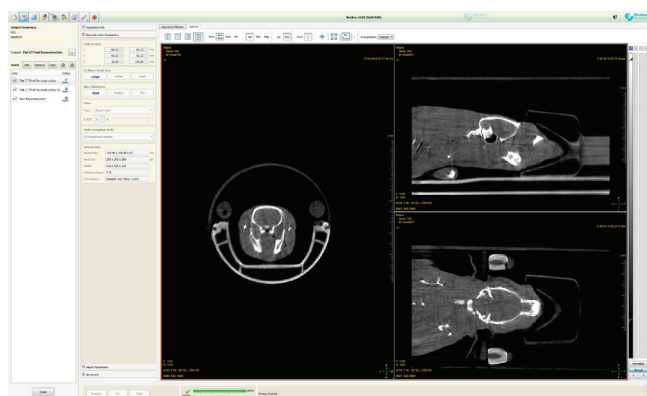
PET and CT acquisition without moving the subject\*

\*patent pending

26 cm diameter opening with 20 cm diameter field of view.



**MobilCell** modular imaging bed with 60 cm axial range.



Standard easy to use Nucline console of Mediso. Predefined protocols reduce the technicalities of the scan to just the click of a button enabling you to focus on the animal during the imaging session.

# MultiScan Family Concept

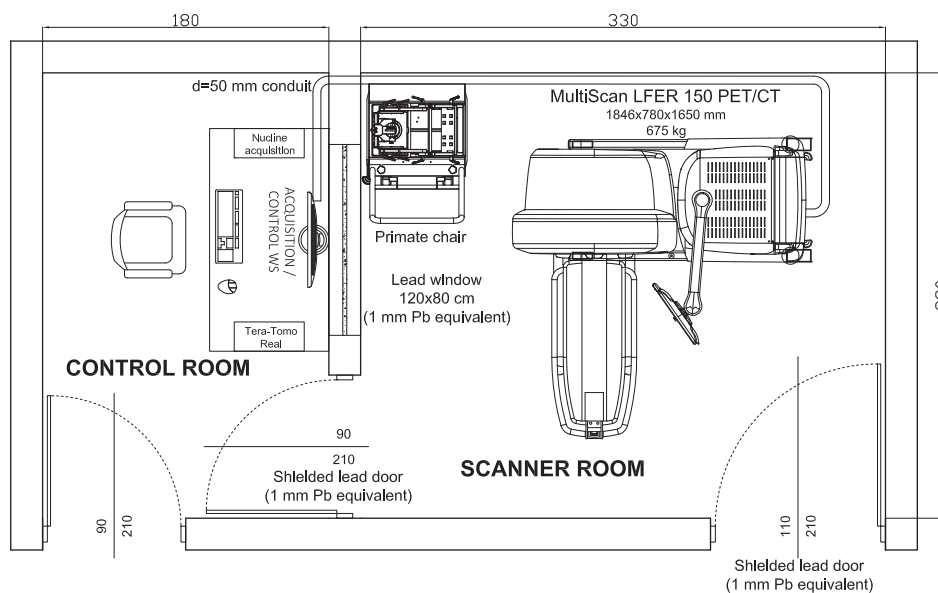
Dedicated applications in preclinical and clinical research



Preclinical

Clinical

## Recommended room layout



### Conformance Statement

Quality management system operated by Mediso Medical Imaging Systems complies with Council Directive 93/42/EEC Annex II.

Product design, development, production and services comply with EN ISO 13485 and EN ISO 14971.

Safety labels are attached to appropriate places on equipment and appear in all operation manuals.

The supplied software complies with DICOM standard.

The technical information provided here is not a detailed specification.

For details and up to date information please contact your local distributor or Mediso Medical Imaging Systems.



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