

Product Specifications of β -eye



Technical

Outer dimensions 39cm (L) x 35cm (W) x 35cm (H)

Weight 25 kgr

Outer shielding Metal

Power Supply AC/DC Adapter 12V/450W

AC input range 100-240 VAC

PC Connectivity USB 2.0 Type A

Ethernet RJ45 Cat 5e

Data acquisition system Analog-to-Digital Converter at

50MHz sampling rate

FPGA for data handling &

transmission to PC

Detector head Tungsten shielding

4 x Position Sensitive Photomultiplier

Pixellated scintillator BGO

2.5x2.5x5 mm³ pixel size

21x42 crystal pixels

No collimator / Coincidence circuit

with 6nsec window

Performance

Field of view 50mm x 100mm

Useful field of view 48mm x 98mm

Bore size 60mm

Axial length 100mm

Spatial Resolution 1.8mm, at center of the field of view

Normalized Energy Resolution 14% for the 511keV

Sensitivity 1.4%

1400cps/MBq

Uniformity <10%

Photon Sensitivity 82%

Acquisition time 1min (or higher) for 10cm long animal.

10sec frames are possible

Software

Database Raw data, DICOM storage

Imaging Photo of the mouse as anatomical map

Real-time viewer

Selectable frame duration down to 10sec

Pre-defined and user's defined protocols

Post Processing

ROI manager, ROI plots

Kinetic time activity curves at real time

View

Zoom, Pan, Data Cursor,

Brightness/contrast

Export

Reporting tool, Graph plots

Animal handling

Mouse bed

Custom bed for repeatable positioning of the mouse

2 beds per system are supplied to protect from contaminations

Heating

Thermal pad

Anesthesia

Standard inputs for gas anesthesia

ECG

Add-on per user request

Respiration Rate

Add-on per user request

Temperature

Add-on per user request

Contact Information

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