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SCIENCE IMAGING

BET
solutions

BioEmissionTechnology



your eyes to *in vivo* imaging

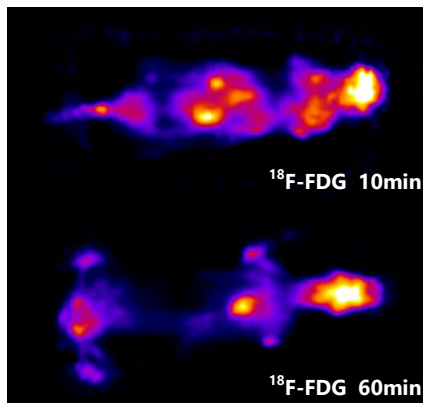
Overview

" β -eye", newly introduced in the "eye"-series, is a dedicated coincidence camera suitable for *in vivo* molecular imaging of biomolecules and nanoparticles.

" β -eye" is a unique benchtop system for whole-body mouse imaging. Its 5x10cm² field-of-view allows static and fast dynamic studies.

" β -eye" is the only truly portable coincidence system, offered in a safe suitcase with all components and ready for immediate use.

The "eye"-series fulfil the gap between *ex vivo* biodistributions and advanced multimodal imaging systems. Planar mode is the most efficient method for fast *in vivo* screening of various biomolecules and this is what the "eyes" offer.



The " β -eye" technology gives the ability to image all PET tracers and probes.

Why " β -eye" is the right choice

- | | | | |
|-------------------|---|---------------------|---|
| TECHNOLOGY | <ul style="list-style-type: none">• Low-cost benchtop system• Easy versatile transportation• Robust technology• Semi-quantitative information• Long-term operational system• No special room requirements• No need for technical staff• User-friendly software | APPLICATIONS | <ul style="list-style-type: none">• Whole-body dynamic studies• Fast screening of promising biomolecules before detailed studies• Dynamic studies for determining best biodistribution time-points• Quality control imaging prior to <i>ex vivo</i> biodistributions• Quality control pre-screening before multimodal imaging |
|-------------------|---|---------------------|---|

β-eye Software

The “β-eye” GUI is a user-friendly software. Fully comprehensive for real-time imaging and post-processing data analysis for preclinical planar imaging. The software supports DICOM standard and provides the option of cine view export of your acquisition.

Complete an imaging study in 4 steps:

- ▶ **Database archive**

Easy search and storage of acquisitions: study information, physician details, biomolecule information, imaging protocol.

- ▶ **Real-time imaging**

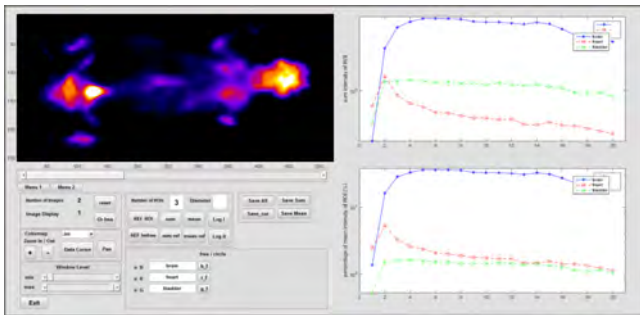
Real time visualization of the study with a user selectable refresh rate.

- ▶ **Post-processing analysis**

Easy-handled tools for standard image processing and automated graphs of time kinetic curves.

- ▶ **Reporting tool**

One click for reporting all valuable data. Figures, ROIs, parameters, information of the study collected in a final report file.



β-eye Packaging

The system is delivered in a portable suitcase where all components are stored (mouse beds, phantoms, cables, laptop, power supply). The suitcase is safe for transportation by all means (airplane, bus, train) considered as standard luggage.



Performance Specifications

Useful Field of View (UFOV)	48mm x 98mm
Maximum Sensitivity	14kcps/MBq (1%)
Spatial Resolution	1.1mm @40mm
Energy resolution	17% @511keV

Technical Specifications

Camera

Detector	4 x PSPMTs
Scintillator	Pixelated BGO

Overall Characteristics

Dimensions	35cm(L) x 35cm(W) x 30cm(H)
Weight	30 kg
Power Supply	AC/DC Adapter 12V/150W
AC Input range	90-264 VAC
PC Connectivity	1 USB, 1 Ethernet

Software Specifications

Database	Raw data, DICOM storage
Imaging	Real-time imaging with selectable time frame
Post Processing	ROI manager, ROI plots
View	Zoom, Pan, Data Cursor, Brightness/contrast
Export	Reporting tool, Graph plots, Cine mode

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