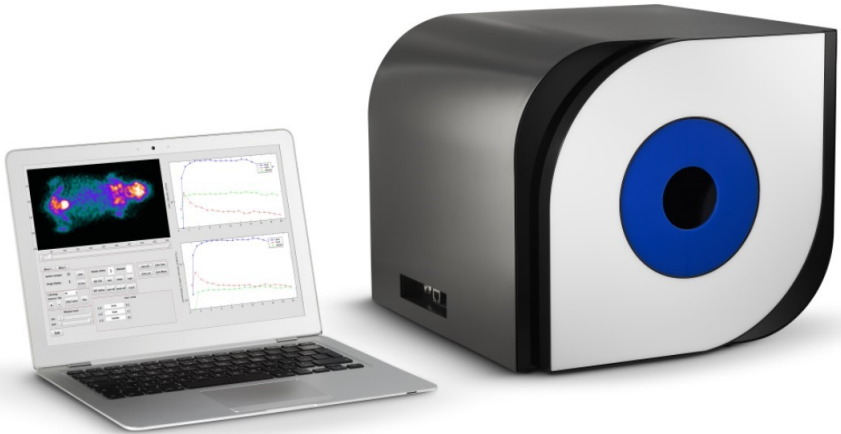


BET  
solutions  
BioEmissionTechnology



your eyes to *in vivo* imaging

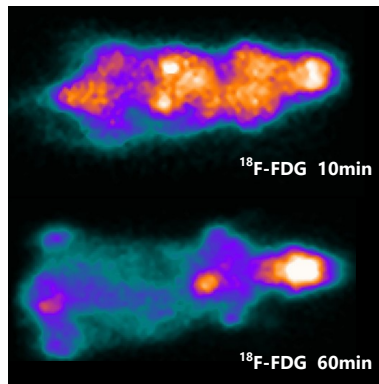
## Overview

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

" $\beta$ -eye" is a unique benchtop system for whole-body mouse imaging. Its 5x10cm<sup>2</sup> field-of-view allows static and fast dynamic studies.

" $\beta$ -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 " $\beta$ -eye" technology gives the ability to image all PET tracers and probes.

## Why " $\beta$ -eye" is the right choice

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

## $\beta$ -eye Software

The “ $\beta$ -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**

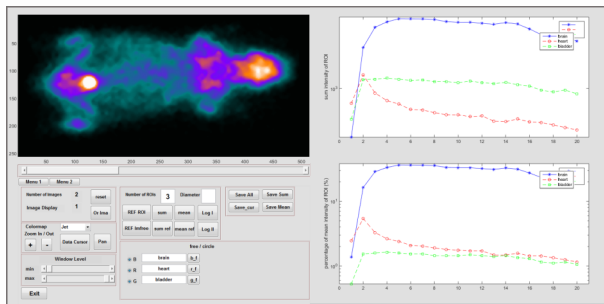
Real time visualization of the study with a user selectable refresh rate.

- ▶ **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.



## $\beta$ -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	1.6mm @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	28 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

## Contact Information

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