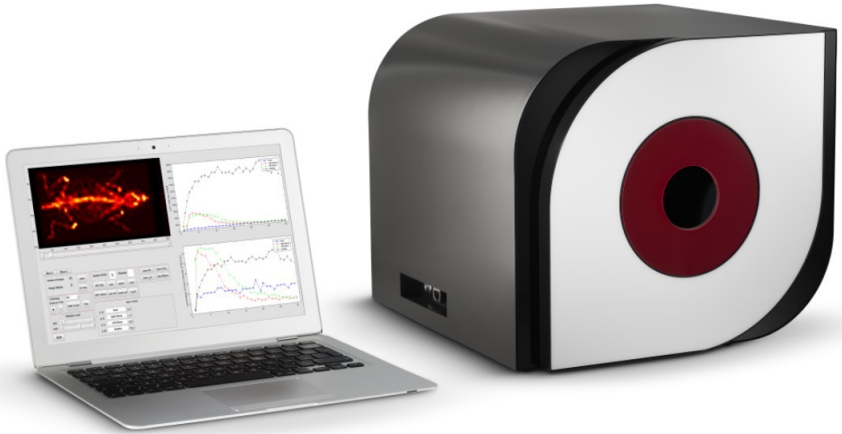


 BIOEMTECH



your eyes to *in vivo* imaging

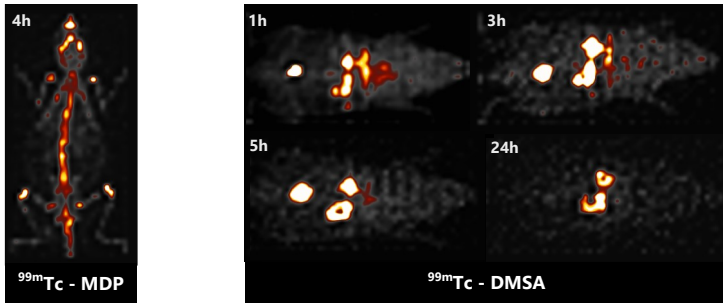
## Overview

" $\gamma$ -eye", the first system of the "eye"-series, is a dedicated scintigraphic camera suitable for *in vivo* molecular imaging of biomolecules and nanoparticles.

" $\gamma$ -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.

" $\gamma$ -eye" is the only truly portable scintigraphic 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 " $\gamma$ -eye" technology gives the ability to image a variety of readily available <sup>99m</sup>Tc-labelled radiotracers and probes. Upon request, " $\gamma$ -eye" can be adapted to other SPECT isotopes.

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

### TECHNOLOGY

- 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

- Whole-body dynamic studies
- Fast screening of promising bio-molecules before detailed studies
- Dynamic studies for determining best biodistribution time-points
- Quality control imaging before *ex vivo* biodistributions
- Quality control pre-screening before multimodal imaging

## The “eyes” Software

The “eyes” 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**

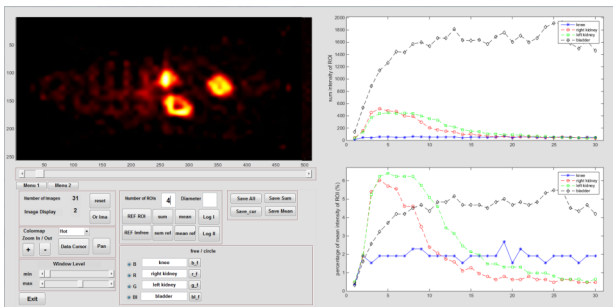
Real time visualization of the study with a user selectable refresh rate.

- ▶ **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.



## The “eyes” Packaging

The systems are 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)	48 mm x 98mm
Sensitivity within Energy window	56 cps/MBq
Spatial Resolution	1.7mm @0mm
Energy resolution	19% @140keV

## Technical Specifications

### Camera

Detectors	2 x PSPMTs
Scintillator	Pixelated CsI(Na)
Collimator	Parallel Hexagonal Hole, Lead

### Overall Characteristics

Dimensions	35cm(L) x 35cm(W) x 30cm(H)
Weight	25 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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