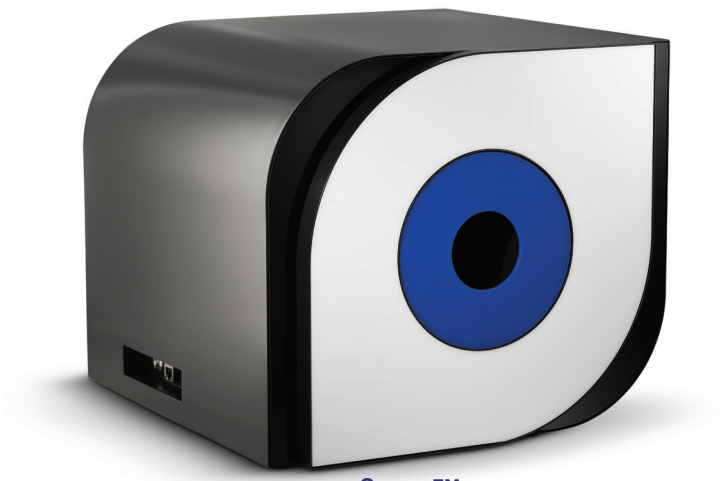
BIOEMTECH

Introducing the eye series

The tools that were missing from your imaging lab

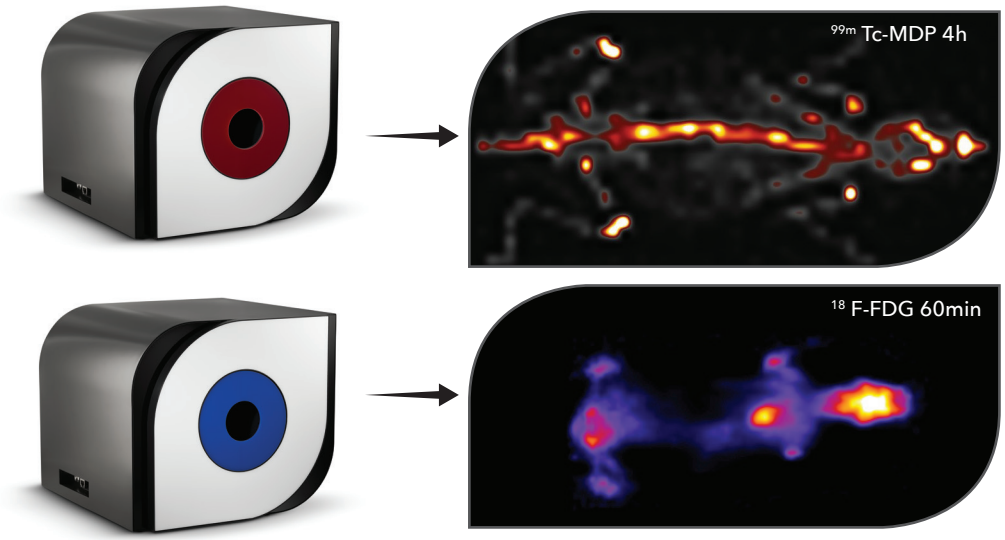


β-eye™

γ-eye™

eyes at a glance

- Unique benchtop systems for in-vivo imaging of **radiolabeled biomolecules** and **nanoparticles.**
- Filling the gap between **ex-vivo biodistributions** and **advanced imaging systems**.
- The eyes have a **5x10 cm² field of view**, allowing **whole-body mice** imaging studies.
- Both systems support **static** and **fast dynamic** whole-body mice imaging studies.
- The **β-eye** allows for the imaging of biomolecules labelled with **PET isotopes**.
- The **γ-eye** allows for the imaging of biomolecules labelled with **SPECT isotopes.**
- The systems operate in **planar mode**, the most efficient method for fast, in vivo screening.
- Complete with a **durable packing suitcase** and all components ready for immediate use.
- The only **truly portable** molecular imaging systems in the market!



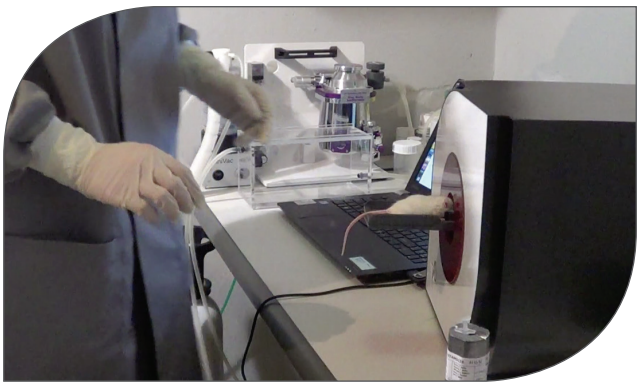
eye series: unique benefits

TECHNOLOGY

- Low-cost benchtop system
- Easy, versatile transportation
- Robust technology
- Semi-quantitative information
- Long-term operational systems
- No special room requirements
- No need for technical staff
- User-friendly software

APPLICATIONS

- Whole-body dynamic studies
- Fast screening of biomolecules before detailed studies
- Continuous imaging from first second post injection
- Evaluation of different injection routes
- Selection of biodistribution time-points with dynamic studies
- QC imaging before ex vivo biodistributions
- QC pre-screening before multimodal imaging
- Significantly improved accuracy and statistics



“
Turn your desk into a lab!

eye-series packaging

Both systems are delivered in a portable suitcase in which all components are stored (mouse beds, phantoms, cables, laptop & power supply). The suitcase is safe to carry on all means of transport (train, airplane, bus etc.) and is the size of standard luggage.

visual | eyes software

The ‘eyes’ GUI is a user-friendly software, offering fully comprehensive real-time imaging and post-processing data analysis for preclinical planar imaging. The software supports DICOM standard and provides the option to cine-view export your acquisition.

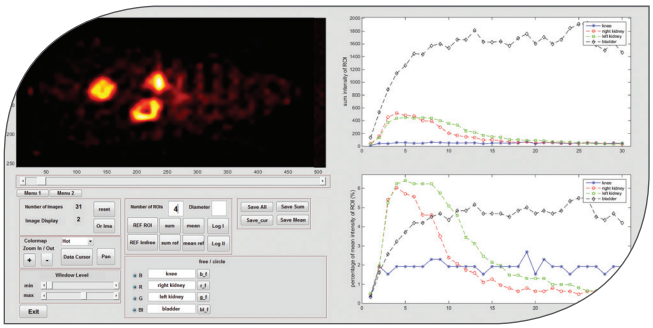
Complete an imaging study in 4 steps:

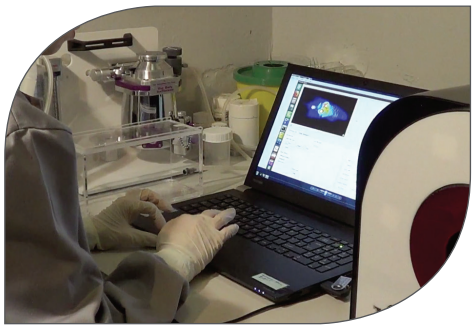
- **Database archive:**
  Easily search and store acquisition information, including study information, physician details, biomolecule information and imaging protocols.

- **Real-time imaging:**
  Real-time visualisation of the study, using a user-determined refresh rate.

- **Post-processing analysis:**
  Easily handled tools for standard image processing, plus automated graphs of time-kinetic curves.

- **Reporting tool:**
  One-click report generation for all valuable data. Figure, ROIs, parameters and all study information collated in a final report file.





Performance Specifications

	β-eye	γ-eye
Useful Field of View (UFOV)	48 mm x 98mm	48 mm x 98mm
Sensitivity within Energy window	14kcps/MBq	56 cps/MBq
Spatial Resolution	1.5mm @30mm	1.7mm @0mm
Energy resolution	19% @511keV	19% @140keV

Technical Specifications

Camera	**β-eye**	**γ-eye**
Detectors	4 x PSPMTs	2 x PSPMTs
Scintillator	Pixelated BGO	Pixelated CsI(Na)
Collimator	-	Parallel Hexagonal Hole, Lead

Overall Characteristics

	β-eye	**γ-eye**
Weight	30 kg	25 kg
Dimensions	35cm(L) x 35cm(W) x 30cm(H)	
Power Supply	AC/DC Adapter 450W; 100-264VAC	
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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