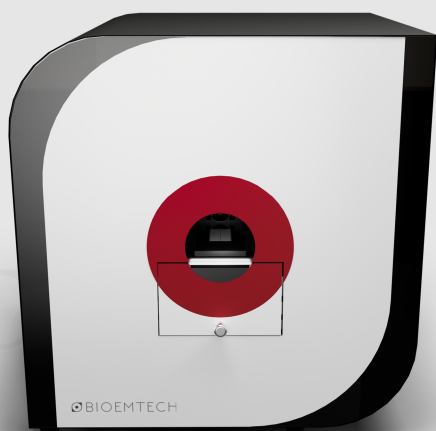




A desktop preclinical **3D SPECT** platform for fast
in vivo screening and longitudinal imaging of
diagnostic and therapeutic
radiopharmaceuticals

 **eye**TM



From fast planar imaging to dynamic **3D SPECT**

The **y-eye™** system now supports tomographic **3D SPECT** imaging, enabling enhanced spatial assessment while preserving its compact footprint and simplicity.

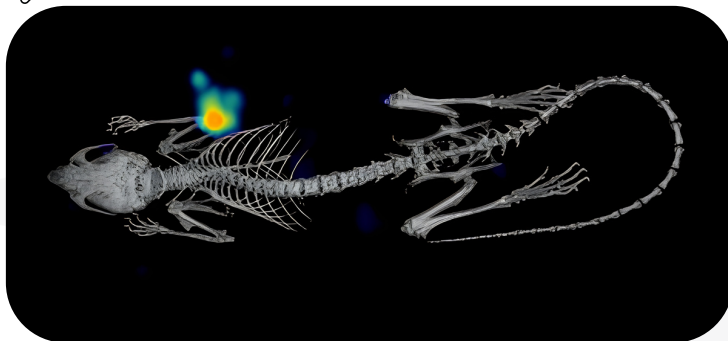


Key capabilities

- **3D SPECT** for spatial and longitudinal assessment
- **4D dynamic SPECT** for kinetic analysis
- **Fast planar imaging** for whole-body screening
- Optimised for **alpha-emitting** radiopharmaceuticals



Lu-177



Representative image from a dynamic 4D SPECT acquisition

Image info: 3 to 53 min post injection – 5 min frames
activity during imaging 40.2 MBq

High-throughput imaging for multi-animal screening

The **y-eye™** is also available in a **High Throughput** configuration, designed for efficient planar imaging of larger study cohorts and increased experimental throughput.

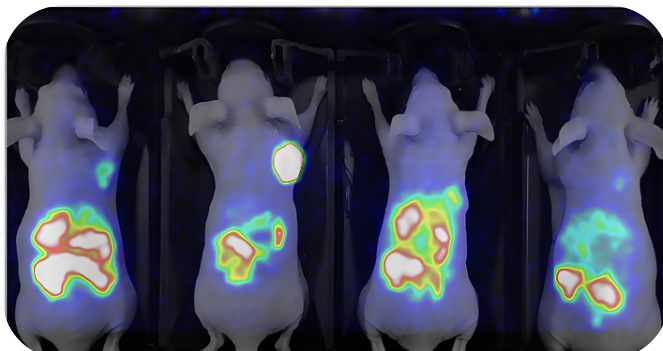


High-Throughput configuration

- **100 × 200 mm** field of view
- **Up to 4 mice** simultaneously or 1 rat
- More than **110 mouse scans** per day
- Dedicated to planar imaging workflows



In-111



Representative simultaneous imaging of 4 mice with ¹¹¹In-DOTATATE

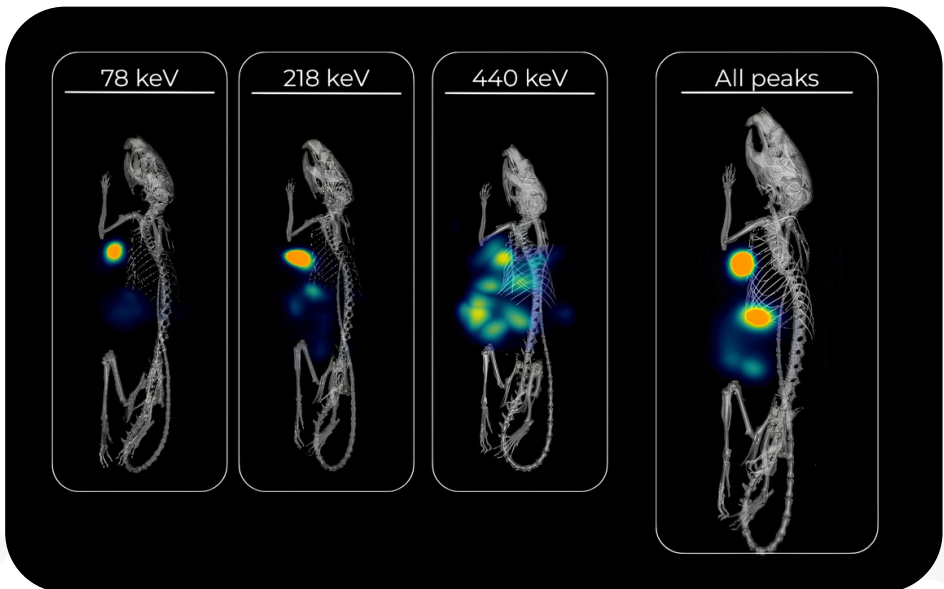
Image info: 3 h post injection - 10 min scan
injected activity 5.5 MBq per mouse

3D SPECT imaging of ^{225}Ac radiopharmaceuticals

Tomographic 3D SPECT imaging of ^{225}Ac -**Trastuzumab** enables longitudinal assessment of radiopharmaceutical uptake and daughter radionuclide distribution *in vivo*.



Ac-225



^{225}Ac -Trastuzumab images across selected decay-chain energy windows

Images info: 48 h post injection – 30 min scan – injected activity 0.17 MBq

Dynamic 4D SPECT imaging of ^{177}Lu radiopharmaceuticals

Dynamic whole-body SPECT imaging enables time-resolved assessment of ^{177}Lu -**Trastuzumab** distribution during the early post-injection period.

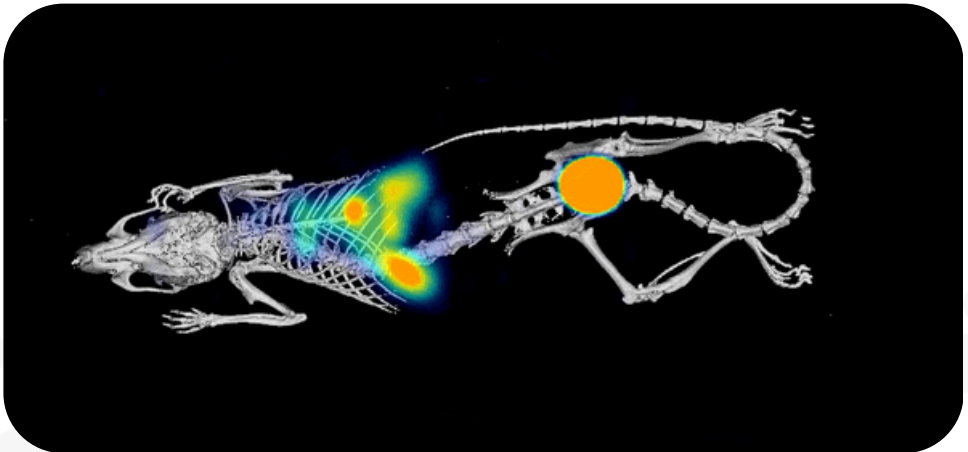


Study Highlights

- **Dynamic 4D SPECT** from 3 to 53 min p.i.
- **5 min frames**
- Static 3D SPECT up to **120 h p.i.**
- Low-activity visualization down to **1.13 MBq**



Lu-177



Dynamic SPECT imaging of ^{177}Lu -Trastuzumab in a SKOV-3 xenograft model

Image info: 3 to 53 min post injection – 5 min frames
activity during imaging 40.2 MBq

Built for radiopharmaceutical research

y-eye™ is compatible with a broad range of commonly used SPECT radionuclides, supporting diagnostic and therapeutic radiopharmaceutical studies across both **3D SPECT** and **planar** imaging workflows.



Pb-203

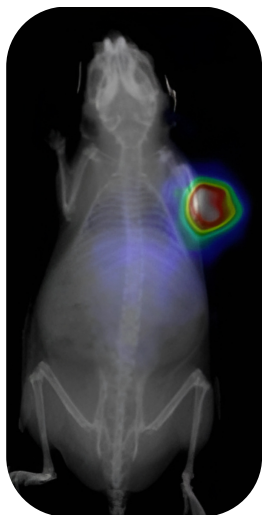


Image info:

24 h post injection
10 min scan
injected activity 0.89 MBq



Pb-212



Image info:

24h post injection
10 min scan
injected activity 0.02 MBq



Tc-99m

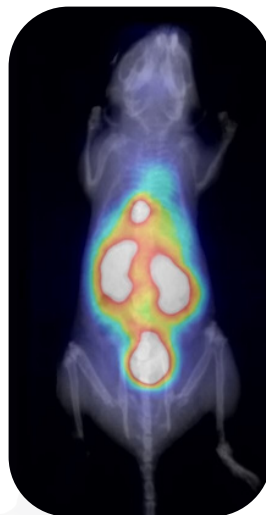
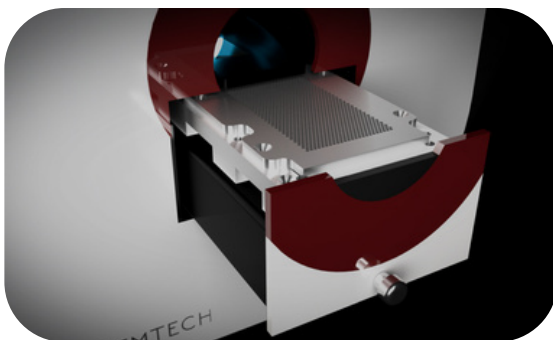


Image info:

24 h post injection
10 min scan
injected activity 3 MBq

Technical performance in a desktop footprint

y-eye™ combines high-resolution SPECT imaging with a compact **desktop** design, supporting flexible preclinical imaging workflows.



Two user-interchangeable collimators, **Low Energy General Purpose (LEGP)** and **High Energy High Sensitivity (HEHS)**, for flexible imaging across different requirements.



Key specifications

- **<1.6 mm** spatial resolution
- **35–440 keV** detectable energy range
- Energy resolution **down to 11%**
- Down to **1 sec frames** in planar imaging
- **5 min frames** for whole-body 3D SPECT
- User-interchangeable collimators



BIOEMTECH's eyes™ systems are designed to
make molecular imaging more accessible,
practical and efficient

SCAN ME

