Albira Si

Revolutionary preclinical PET / SPECT / CT imaging system

The Albira Si is an innovative technology which opens new opportunities for high impact research in understanding disease and assessing candidate treatments, making true personalized medicine possible, with development from bench to bedside.

Albira Si, the next generation of molecular vision technology, is more powerful, more flexible and easier to use than ever, redefining what you can expect and supporting your research to reach new levels.

This major innovation is supported by professional service, outstanding quality, long term support and an extensive global network of excellence centers. Bruker´s full focus and commitment to preclinical research is the guarantee you can rely on.

Full field of view accuracy, breakthrough results

Truly multimodal, highly flexible

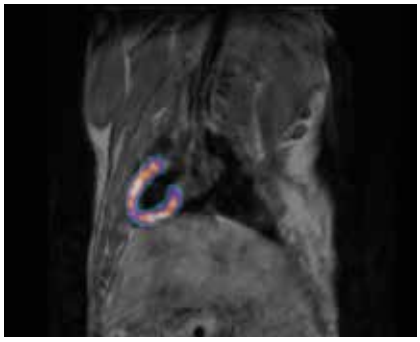
- Seamless integration of PET, SPECT and CT in a fully shielded, compact footprint.
- Homogeneous resolution and quantitative accuracy in single or multiple simultaneous animal studies.
- Accurate dual cardiac/pulmonary PET and SPECT gated imaging.
- Full range of animal beds and monitoring accessories for optimum productivity.
- Facilitates integration of PET and MR technologies.
- Accurate animal positioning with the motorized animal handling system including touchscreen operation enables automatic co-registration of images.

ACCELA

Accelerate your biomedical research

Albira Si...The new standard in multimodal preclinical PET imaging for every research field

True breakthroughs in technology for improved research results are rare, with "simple" incremental evolution as the norm. Real revolutionary innovations which change what we can expect are a defining moment. Albira Si is one of this few special opportunities, with proven superior specifications and the radical advantages which will make your research better.

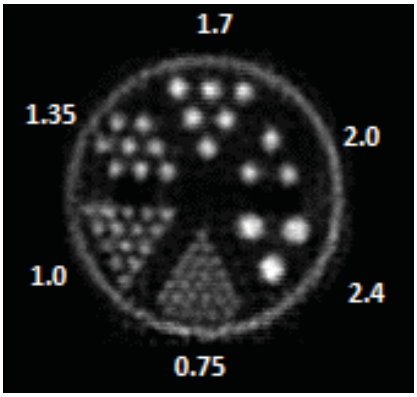


Cardiology: rat heart fused, PET (10 min. acquisition, 190 µCi FDG dose), MRI 10 min. acquisition. Courtesy of Dr Victoria Moreno, Centro de Investigacion Principe Felipe, Valencia, Spain

Full Field Accuracy (FFA)

FFA offers real, homogeneous submillimetric volumetric PET resolution in all three axes in the whole field of view, with superior precision in quantification based on:

- Exclusive continuous crystal detectors with new
- Si PM technology and true depth of interaction
- 3D precision equivalent to 10+ layer pixelated crystal detectors.
- Virtual pixels optimizing very fast, low dose, maximum sensitivity studies and allowing software based performance upgrades
- Proprietary electronics and software with row and column readout, enabling advanced depthof-interaction measurement and correction.
- This patented technology generates an area of optimum resolution up to 10 times larger than conventional options.



PET image of a Derenzo phantom showsresolutionofbetterthan0.75mm.

Best in class specifications under real lab conditions

- Resolution up to 0.7 mm
- Sensitivity of 12%
- NEMA NECR peak rates: mouse 560 kcps, rat 330 kcps
- Unprecedented quantification and dynamic study performance
- Large axial FOV of 148 mm
- Cardiac and respiratory gating

SodiumfluoridePETscan, mouse, with clear visualization of ribs. 10 min. acquisition, 180 µCi dose. Courtesy of Dr. Victoria Moreno, CIPF, Valencia, Spain

Innovation with integrity

ACCELA

accela s.r.o., Služeb 4, 108 00 Prague 10, Czech Republic
Tel.: +420 255 700 886, Fax: +420 272 700 882
accela@accela.eu, www.accela.eu