

HiReSPECT II

High Resolution Preclinical SPECT Imaging System

Detectors

- Pixelated CsI(Na): 95×95 cm²
- SiPM: 12×12 array of 3mm SMT sensors
- Number of SiPM per detector: 4 pcs
- Bore opening: 100 mm

Animal handling

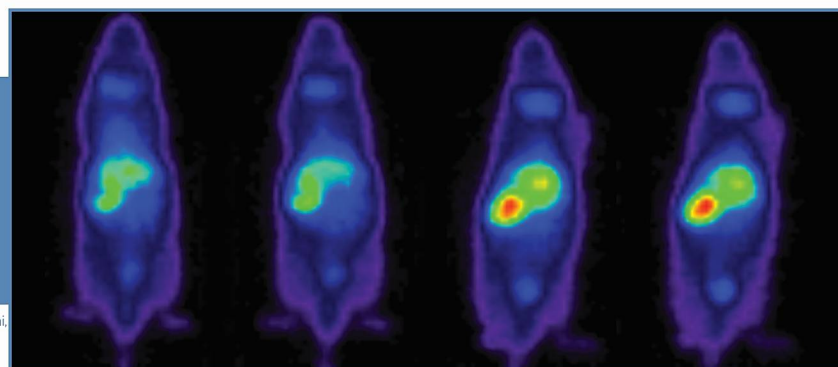
- Automated bed positioning
- Low attenuation carbon fiber material
- Easy bed attach/detach
- Capability of scanning of mice and rat
- Equipped with inside video camera for precise positioning

Room requirement

- Minimum room size: 8 m²
- System dimension (W×D×H): 103×127×180 cm³
- Total system weight: 250 kg
- Standard air condition (20-25°C)



Characteristics	
Number of detectors	2
Number of detector cells per detector	4624
CsI(Na) crystal size	1.3 × 1.3 × 5 mm ³
SiPM (12×12 array)	MRI compatible
Tomographic FOV (Diameter×Axial)	94 × 94 mm ²
Collimator type	Low Energy High resolution
Planar resolution at the detector surface	1.4±0.2 mm
SPECT reconstruction method	FBP and Iterative With resolution recovery



TPCF image gallery: Courtesy of Dr. Ardestani,
Tehran University of Medical sciences

Immediately after
injection

5 minutes after
injection

15 minutes after
injection

Half an hour after
injection



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