

PrOSPECT II

It's time to expand your capabilities in cardiac imaging

Dual Head Dedicated Cardiac SPECT A Revolution in Nuclear Cardiology

Upgradable to dual head variable angle general SPECT

Detectors:

- NaI (Tl) scintillation crystal (402×256×9.5 mm³)
- Square PMT (76×76 mm)
- Light weight LEHR collimator

Patient Handling:

- Supine and prone imaging
- Easy Access to any patient size (up to 250 kg, 210 cm)
- Suitable for patients with claustrophobia disorder
- Low patient's bed height to facilitate patient loading

Acquisition Console:

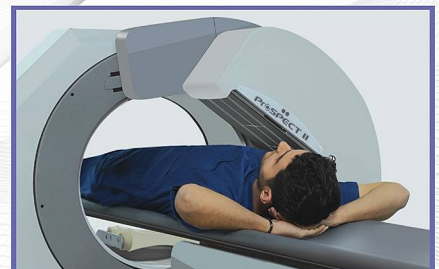
- Portable acquisition console
- Equipped with icon-driven hand controller

Software:

- Dedicated acquisition software
- Advanced Cedars-Sinai software for quantification

Gantry:

- Dual detectors with fixed 90° angle and small dead zone
- Durable, strong and heavy-duty gantry
- Easy to install
- High precision positioning
- Investment protection; Upgradable to General purpose SPECT
- Wireless ECG gating system

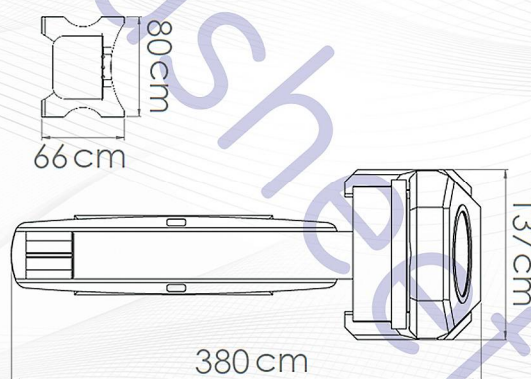


New Design with New Technology

Detector Specification	
Intrinsic spatial resolution	
FWHM in UFOV	≤ 3.5 mm
FWTM in UFOV	≤ 7.4 mm
Intrinsic spatial linearity	
Absolute in UFOV	≤ 0.2 mm
Differential in UFOV	≤ 0.1 mm
Intrinsic energy resolution	
in UFOV	9.3 %
Intrinsic flood field uniformity	
Integral in UFOV	≤ 2.0 %
Differential in UFOV	≤ 1.0 %
System spatial resolution w/o scatter at 10 cm	
LEHR	≤ 7.6 mm
LEAP	≤ 9.8 mm
Sensitivity	
LEHR	192 cpm/ μ Ci
LEAP	295 cpm/ μ Ci
ECG Gating	
Mode	List-mode
Max. number of frames per R-R interval	32
Gantry Physical Specifications	
Height	185 cm
Width	140 cm
Length	380 cm
Weight (with detectors and collimators)	1200 kg
System Specifications	
Field of View (FOV)	37 $\times$ 22 cm ²
Useful Field of View (UFOV)	36 $\times$ 21 cm ²
Detector respective angle	90 Degrees
Gantry rotation range	420 Degrees
Radius of Rotation (ROR)	19-35 cm
Range of in/out movement of bed	53-115 cm
Range of in/out movement of bed	220 cm
Maximum patient load capacity	Up to 250 kg



- Easy to scanning heavy patients (up to 250 kg)
- Supine and prone imaging
- Optional accessories include a head holder and arm support
- User-friendly acquisition station
- Intuitive hand controller
- Portable acquisition console
- Optimized FOV for cardiac imaging
- Minimal dead zone in detectors
- Using square PMT technology
- List mode gated SPECT acquisition
- Wireless ECG gating system
- Motion artifact reduction
- Advanced Cedars-Sinai software for quantification



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