











A Professional Solution for Cardiac Imaging
Dual Head Dedicated Cardiac SPECT



Pr@SPECT

Overview

ProSPECT system has an optimized design in nuclear cardiology. The system gives you all information needed for confident diagnosis and myocardium imaging.

The gantry and table of the system are designed with a variety of scans in mind and in a comfort manner specially for patients with claustrophobia disorder. The ProSPECT system equipped with two detectors with small FOV to minimize extra cardiac activity.

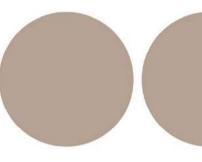


Designed with a variety of patients in mind

ProSPECT system can scan a variety of patients with all sizes because of a 76 cm bore of the gantry.

Also, table designed to comfortably accommodate the patients and to provide dual patients positioning (supine and prone).







The system provides a wide range of SPECT scans such as supine, prone, dextrocardia, 180 degrees and 360 degrees arcs.



Design for easy access of patient with any size (150 kg, 210 cm)

Providing a wide variety of SPECT scans

Possibility of SPECT scans in different modes including supine, prone, dextrocardia, 180 degrees and 360 degrees arcs.

Hand controller

Easy to control gantry operations and body contour learnings

User-Friendly acquisition software with predefined acquisition protocols



Optimal Field of View

Optimizing FOV to minimize inappropriate activity uptake of other organs

Optimal detector design for cardiology

Dual-detectors with fixed 90° angles and minimum dead zone

Designed with patient comfort in mind

Patient-friendly design specially patients with claustrophobia disorders

Light-weight collimators

Easy to change collimators manually

Detector Specifications Based on NEM	IA Standards
Intrinsic spatial resolution	
FWHM in UFOV	≤ 3.5 mm
FWTM in UFOV	≤ 7.4 mm
Intrinsic spatial linearity	
Absolute in UFOV	≤ 0.8 mm
Differential in UFOV	≤ 0.2 mm
Energy resolution	
UFOV	9.3 %
Intrinsic flood field uniformity	
Integral in UFOV	≤ 2.2 %
Differential in UFOV	≤ 1.2 %
System spatial resolution w/o scatter at	10 cm
LEHR	≤ 7.6 mm
LEAP	≤ 9.8 mm
Sensitivity	
LEHR	175 cpm/⊬Ci
LEAP	295 cpm/µCi
ECG Gating	
Mode	List Mode
Max. number of frames per R-R Interval	32
Gantry Physical Specificatio	ns
Height	160 cm
Width	140 cm
Lenght	365 cm

LEAP	295 cpm/µCi
ECG Gating	
Mode	List Mode
Max. number of frames per R-R Interval	32
Gantry Physical Specifications	
Height	160 cm
Width	140 cm
Lenght	365 cm
Weight (with detectors and collimators)	900 kg
System Specifications	
Filed of View (FOV)	37×22 cm ²
Useful Filed of View (UFOV)	36×21 cm ²
Detector respective angle	90 Degrees
Gantry rotation range	360 Degrees
Radius of Rotation (ROR)	18-33 cm
Range of up/down movement of bed	73-85 cm
Range of in/out movement of bed	150 cm

