

The perfect solution for SPECT imaging in multiple locations using a single system.

mSPECT is also available for hospitals or practices as an interim (rental) solution to manage overcapacity in any situation.



Introducing mSPECT™

mSPECT is a mobile/portable nuclear cardiology dual detector SPECT imaging system providing an ideal cost-effective solution for SPECT imaging at multiple locations using a single system. This shared asset approach offers the flexibility to rapidly and easily perform SPECT imaging in any situation where nuclear cardiology service would be beneficial, but patient study volume does not warrant a dedicated system. Large cardiology practices can leverage the mSPECT between multiple satellite offices or outreach locations, and smaller volume practices may contract for daily service as required using a mobile service provider.

mSPECT is an advanced technology design with proven, premium digital detectors that rapidly deliver exquisite high resolution image quality. The open system design features upright (seated) imaging comfort with unobstructed view that patients prefer and appreciate while simultaneously reducing the tendency for patient motion during the acquisition. This ultra compact completely integrated system is moved in one piece, requires minimal space and is an excellent solution for imaging in virtually any office. The system construction is highly reliable in any conditions and can be transported in a standard size van using either a lift gate or ramp & winch assembly.

At GVI Medical Devices our corporate mission is to provide the nuclear cardiology community leading edge, value oriented myocardial perfusion imaging systems.

PRODUCT SPECIFICATIONS

DETECTOR PHYSICAL SPECIFICATIONS

Number of Detectors	2, Fixed 90° Angle
UFOV (W x H)	14.8" x 9.5" (37.6 x 24.1 cm)
Crystal Thickness	3/8" (9.5mm)
Number of PMTs / Detector	35
Acquisition	1 ADC per PMT
Energy Range	50 - 200 keV
Collimators	2, LEHR

DETECTOR PERFORMANCE SPECIFICATIONS

Intrinsic Spatial Resolution	≤ 3.5 mm
Intrinsic Spatial Linearity	≤ 0.5 mm differential
Intrinsic Energy Resolution	≤ 9.7% FWHM
System Resolution FWHM @ 10 cm - without scatter	8.6 mm - LEHR
System Resolution FWHM @ 10 cm - with scatter	10.0 mm - LEHR
System Sensitivity	260 cpm/uCi - LEHR

GANTRY SPECIFICATIONS

Height	50.3" (127.8cm)
Width	32.5" (82.6cm)
Length	55.6" (141.2cm)
Weight	1050 lbs. (476 kg)
90 degree turn radius	48"
Maximum supported patient weight	500 lbs (226.8 kg)
Chair seat to floor distance	24" @ lowest chair position
Chair vertical motion range	10.0" (25.4cm)
Detector rotational speed	0 to 1.0 RPM
Min/max circular orbit	4.0-12.0" radius (10.2 - 30.5cm)
Patient contouring	Automatic, 2 learning points
Min/max non-circular orbit	3.5-13.8" radius (8.9-35.0 cm)

ENVIRONMENTAL SPECIFICATIONS

Power requirements	120VAC, 60Hz, 10Amps max.
Operating temperature range	60-86°F (16-30°C)
Humidity range (non-condensing)	30-80%
Max. temperature gradient	8°F/hr (4.4°C/hr)
Min. recommend floor space	5' x 7' (152.4 x 213.4cm)
Floor leveling	Flat surface, level, even floor

INTEGRATED ACQUISITION/PROCESSING CONSOLE

Operating system	Windows XP Professional
Multi-functional color monitor	17" LCD
Persistence mode	Included
ECG trigger gate	Included (3-lead)
Tomographic acquisitions	SPECT and gated SPECT
Planar acquisitions	Static, Dynamic, and Gated
Processing interface	DICOM 3.0
Hardcopy	Network Postscript, DICOM
Multitasking	Simultaneous Acquisition & Processing



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