



D-SPECT® Cardiac Imaging System Specifications

Detector Specifications	
Intrinsic Spatial Resolution	
FWHM in UFOV	NA
FWTM in UFOV	NA
<i>*D-SPECT uses Integral Collimators*</i>	
Intrinsic Spatial Linearity	
Differential in UFOV	NA
Integral in UFOV	NA
<i>*Linearity defined by pixilated structure with NO drifts*</i>	
Extrinsic Energy Resolution	
FWHM at 140 keV	≤7%
Intrinsic Energy Resolution	
FWHM at 140 keV	N/A
Extrinsic Uniformity	
Differential in UFOV	< 3%
Integral in UFOV	< 4%
Intrinsic Uniformity	
Differential in UFOV	N/A
Integral in UFOV	N/A
<i>*D-SPECT uses Integral Collimators*</i>	
Max Count Rate with Scatter	
(Per Camera with < 5% Count Loss)	>1,350,000cps
Reconstructed Spatial Resolution	
FWHM with Scatter at 15cm	5.0mm
Dimensions and Weight	
Height	190cm (74.8in.)
Depth	216cm (85.04 in.)
Width	172.4cm (67.87in.)
Weight	670kg (1477 lb.)
Floor Loading- No Patient	610kg/m ² (125 lb./ft ²)
Patient Chair	
Max Patient Weight (Static)	246kg (542 lb.)
Max Patient Weight (Dynamic)	171kg (377 lb.)
ECG Gating	
Number of Frames per R-R	8 or 16
Automatic Beat Centering	Yes
Integrated ECG	Yes

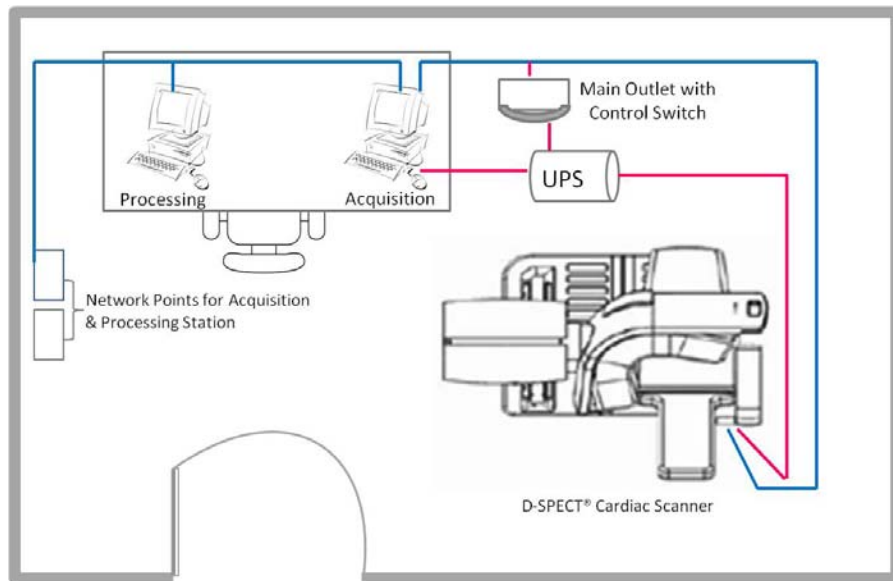
Detector Properties	
Detector Technology	Solid State
Detector Type	Pixilated Crystals
Collimator Type	Tungsten
Number of Detectors	9
Field-of-View (FOV)	15.74cm x patient adjustable
Useful Field-of-View (UFOV)	15.74x3.94cm (6.2x1.6in.)
Number of Pixels per Detector	1024
Total Number of Pixels	9216
Detector Range of Motion	>110°
Pixel Size	2.26 mm x 2.26 mm
Energy Range	40-170keV
Lead Shielding	175keV
Crystal Properties	
Crystal Material	CZT (Cadmium Zinc Telluride)
Crystal Type	Semi-Conductor
Decay Time	300ns
Detection Efficiency	80%@140keV
Crystal Thickness	5.0mm (0.2in.)



Physical, Environmental, and Power Data

System Component	Condition	Ambient Temperature	Relative Humidity (non-condensing)
D-SPECT Cardiac Scanner	Operation	15-24°C	30-65%
		59-75°F	
	Max Temp Change Rate	3°C per hour	
		5.4°F per hour	
	Storage and Transportation	0-30°C	30-65%
32-86°F			
	Heat Dissipation Handling	6800 BTU/hr	

D-SPECT System Configuration	Power (VA)	Nominal Input Voltage (VAC)	Allowed Input Voltage (VAC)	Frequency
Without UPS	1000 VA	100/120/220/240/VAC	Nominal \pm 10%	50-60 Hz
With 120V UPS	1440 VA	120 VAC	96-151 VAC	60 Hz
With 230V UPS	1440 VA	230 VAC	181-290 VAC	50 Hz



The D-SPECT system has a small footprint that easily fits into compact spaces

*Minimum room requirements for upright imaging are 8'8" x 9'5"

*Minimum room requirements for supine imaging are 9'5" x 11"

**Spectrum Dynamics reserves the right to make changes in specifications without notice or warning*
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