



Technical Specifications

CorCam™

Detectors

Detector Specifications	Value
Field of View (FOV)	370 x 214 mm
Useful Field of View (UFOV)	360 x 204 mm
Detector Weight	<200 kg (<440 lbs.)
Energy Range	60 – 170 keV

Crystal	Value
Size	402 mm x 246 mm
Thickness	9.5 mm

Photomultiplier Tubes	Value
Total Number	48 (24 in each detector)
Size	76 mm / 3"
Type	Square PMT with built-in Light Emitting Diode
Array	Rectangular

NEMA 2012 Specifications

NEMA Specification	Value
Intrinsic Energy Resolution	
FWHM in UFOV	≤ 9.4%
Intrinsic Spatial Linearity	
Differential in CFOV	≤0.2 mm
Differential in UFOV	≤0.2 mm
Absolute in CFOV	≤0.5 mm
Absolute in UFOV	≤0.5 mm
Intrinsic Spatial Resolution	
FWHM in CFOV	≤3.8 mm
FWHM in UFOV	≤3.8 mm
FWTM in CFOV	≤7.6 mm
FWTM in UFOV	≤7.6 mm
Intrinsic Flood Field Uniformity	
Differential in CFOV	≤1.5 mm
Differential in UFOV	≤1.5 mm
Integral in CFOV	≤2.5 mm
Integral in UFOV	≤2.5 mm
Intrinsic Count Rate Performance	
Maximum Count Rate (without scatter)	≥290 kcps
Maximum Count Rate, LEHR (with scatter)	≥180 kcps
Maximum Count Rate (20% loss without scatter)	≥180 kcps
Maximum Count Rate, LEHR (20% loss with scatter)	≥120 kcps
System Spatial Resolution Without Scatter (LEHR at 10 cm)	
FWHM in CFOV	≤7.7 mm
Multiple Window Spatial Registration	≤ 2 mm

Gantry

Gantry Dimensions	Value
Length	200 cm Short Table, 274 cm Long Table
Width	186.3 cm
Height	190 cm
Weight	~ 1100 kg (2420lb)
Rotation Range	270°
Rotational Speed	0 - 1 rpm
Detector Rotation Position Accuracy	≤0.5°
Detector Vertical Motion Range	231 – 1193 mm
Detector Vertical Speed	0 – 30 mm/s
Detector Vertical Position Accuracy	< 1 mm
Detector Horizontal Motion Range	0 – 495 mm
Detector Horizontal Speed	0 – 30 mm/s
Detector Horizontal Position Accuracy	< 1 mm

Collimators

Specification	Type	LEGP	LEHR
		Low Energy General Purpose	Low Energy High Resolution
Weight		< 14kg (30lbs)	< 14kg (30lbs)
Hole Shape		Hexagonal	Hexagonal
Hole Diameter		1.7 mm	1.4 mm
Septa Thickness		0.2 mm	0.15 mm
Hole Length (mm)		30 mm	30 mm
Construction		Foil	Foil
Septal Penetration		1.3% @ 140 keV	1.6% @ 140 keV
Sensitivity		270 cpm/μCi ± 7%	197 cpm/μCi ± 7%
Spatial Resolution @ 10 cm @ 140 keV without Scatter		≤9.4 mm	≤7.7 mm

Collimator and Phantom Cabinet *Optional

Collimator and Phantom Cabinet	Value
Height	102 cm
Width	43 cm
Depth	43 cm

Resolution QC Phantom

Specifications	Value
20 lead bars	2.5 mm bars Spaced 2.5 mm
30 lead bars	3.0 mm bars Spaced 3.0 mm
14 lead bars	3.5 mm bars Spaced 3.5 mm
22 lead bars	4.0 mm bars Spaced 4.0 mm

Cardiac Gating Option

Cardiac Gating Option	Value
ECG Type	External
No. of Frames Gated SPECT	8, 16
No. of Frames Gated Planar	8, 16, 24, 32
R-R Acceptance Window	10, 15, 20, 25, 50 % or OPEN
PVC Rejection	0 – 3

Room Layout (Footprint)

System Environmental Requirements	Value
Footprint	Long Table (W) 186.3 cm x (L) 274 cm¹ x (H) 190 cm Short Table (W) 186.3 cm x (L) 200 cm² x (H) 190 cm
Installed System Weight	~ 1,100 kg (2,420 lbs.)
Floor Loading	1.0 kg/cm ²
Electrical Supply	100/120 and 200/240 V AC ± 10%, 50/60 Hz
Heat Dissipation	< 4800 BTU
Temperature Range	15 °C – 30 °C (@non-condensing 20 – 80% Humidity)
Maximum Temperature Change	3° C/h

Acquisition Computer

PC Hardware Specifications * Minimum Configuration	Value
Processor	Intel® Core™ i3-2310M (2.1 GHz)
Hard Drive Capacity	128 GB
Memory	2 GB
Optical Drive	CD /DVD
Monitor	15.6" HD+ (1600 x 900)

¹ Plus 10 cm longitudinal table travel range

² Plus 10 cm longitudinal table travel range