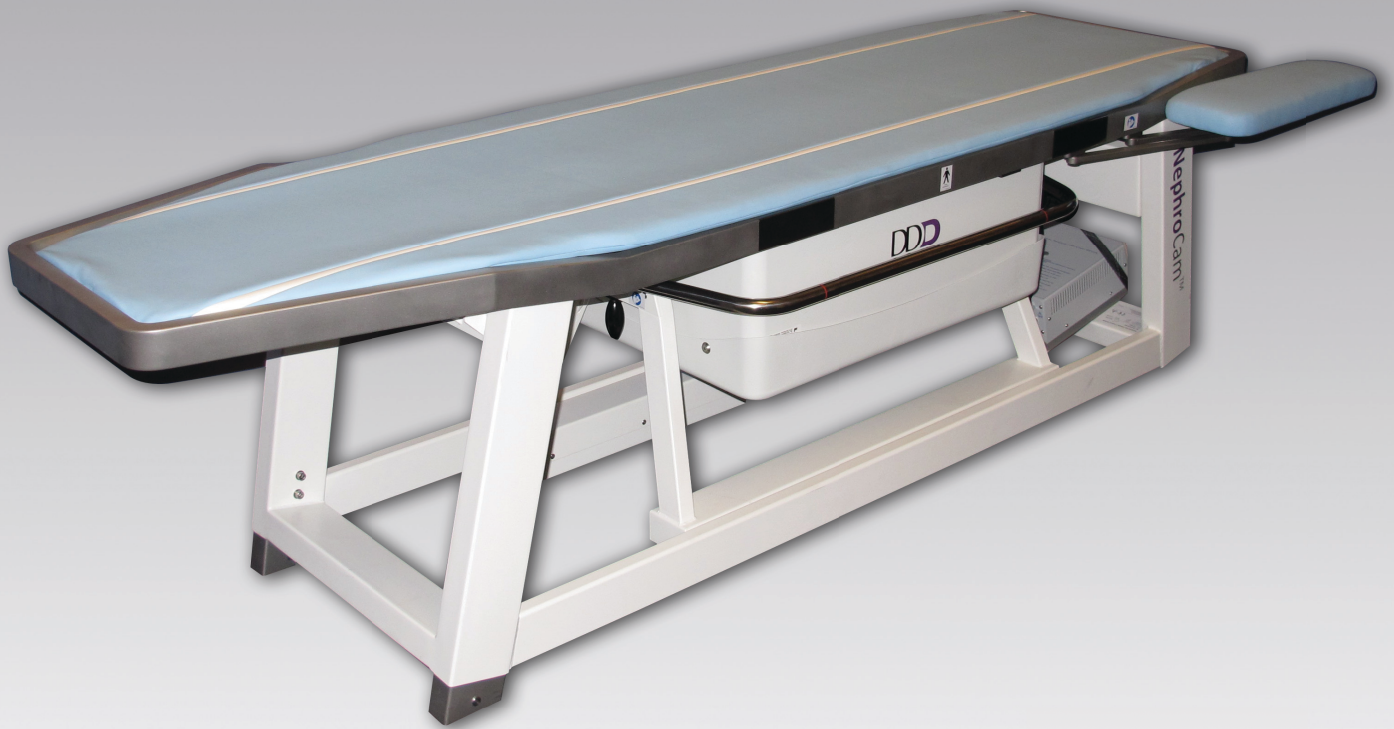




Technical Specifications

NephroCam™

Detector

Detector Specifications	Value
Field of View (FOV)	520 x 370 mm
Useful Field of View (UFOV)	510 x 360 mm
Energy Range	55 keV – 400 keV
Crystal	Value
Size	558 x 402 mm
Thickness	9,5 mm
Photomultiplier Tubes	Value
Total Number	48
Size	78 mm / 3"
Type	3" Square PMT with built-in Light Emitting Diode
Array	Rectangular

NEMA 2007 Specifications

NEMA Specification	Value
Intrinsic Energy Resolution	
FWHM in UFOV	< 9.7 %
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	≤ 3.9 mm
FWHM in UFOV	≤ 3.9 mm
FTM in CFOV	≤ 7.8 mm
FTM in UFOV	≤ 7.8 mm
Intrinsic Flood Field Uniformity	
Differential in CFOV	≤ 2.0 %
Differential in UFOV	≤ 2.5 %
Integral in CFOV	≤ 3.0 %
Integral in UFOV	≤ 3.5 %
Intrinsic Count Rate Performance	
Maximum Count Rate (in air, without scatter)	300 kcps
Maximum Count Rate (with scatter)	180 kcps
Maximum Count Rate (20% loss in air without scatter)	200 kcps
Maximum Count Rate (20% loss with scatter)	120 kcps
System Spatial Resolution Without Scatter (LEHR at 10 cm)	
FWHM in CFOV	≤ 7.9 mm
Multiple Window Spatial Registration	≤ 2 mm
Intrinsic Spatial Resolution @ 75 kcps	
FWHM in UFOV	< 4.0 mm
FTM in UFOV	< 7.9 mm
System Spatial Resolution with Scatter (LEHR at 10 cm)	
FWHM in CFOV	≤ 8.8 mm
FTM in CFOV	≤ 17.4 mm

Patient Bed

Patient Bed Specifications	Value
Pallet Width	60 cm
Pallet Length	220 cm
Pallet Height	66 - 75 cm
Pallet Material in imaging area	Aluminium
Pallet Thickness in imaging area	3.0 mm
Attenuation	< 10 % @ 140 keV
Max. Patient Weight	200 kg (440 lb)

Collimators

Type	LEGP	LEHR	HEGP
Specification	Low Energy General Purpose	Low Energy High Resolution	High Energy General Purpose
Weight	46 kg	47 kg	93 kg
Hole Shape	Hexagonal	Hexagonal	Hexagonal
Hole Size	2.0 mm	1.8 mm	3.0 mm
Septa	0.18 mm	0.16 mm	1.75 mm
Hole Length	38 mm	42 mm	43 mm
Septal Penetration	0.94% @140keV	0.62% @140keV	4.7% @364keV
Sensitivity	250 cpm/ μ Ci	173 cpm/ μ Ci	183 cpm/ μ Ci
Spatial Resolution @ 10 cm	9.1 mm @140keV	7.9 mm @140keV	16.5 mm @364keV

Room Layout (Footprint)

System Environmental Requirements	Value
Footprint	(W) 60 cm x (L) 220 cm x (H) 66 or 75 cm
System Weight	~ 600 kg
Electrical Supply	230 V AC $\pm$ 10%, 50Hz
Heat Dissipation	Max: 2000 BTU/h. Typical: 600 BTU/h
Temperature Range	15 °C to 30 °C (45 ° to 86 °F)
Maximum Temperature Gradient	3 °C / hour (5 °F / hour)

Acquisition Computer

PC Hardware Specifications * Minimum Configuration	Value
Processor	Intel i5 2.7 Ghz
Hard Drive Capacity	500 GB
Memory	4 GB RAM
Optical Drive	Optical DVD Writer
Monitor	24" LCD Monitor



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