

System Highlights

- Light weight small-footprint gantry designed for imaging in up-right position.
- Maintenance-free mechanical design.
- Open-access gantry with no moving parts, facilitates patient setup.

Dual Detectors

The C! utilizes two rectangular NaI (TI) detectors fixed at 90° enabling precise positioning and fast acquisition.

Each detector uses 37 high quantum efficiency photo-multipliers.

Detector size	17" (430mm) X 9.6" (244mm)
Lead shielding	0.5" (12mm) - 1"(26mm)

Acquisition Station

Windows-XP workstation located inside the Gantry.

System Speed	Intel Pentium 4 3.06 GHz / 512 MB RAM
DICOM	Full DICOM 3.0 compatibility
Monitor	Integrated 15" touch screen LCD monitor
Data Acquisition	4 independent energy channels, 4096 x 4096 pixel image digitizing, Direct addressing TS simulation linearity correction with FOV increasing technology.

Imaging Chair

A flexible, 3-way easy positioning chair with auto-locking mechanism.

Seat height	Adjustable
Patient weight	Up to 500 lbs (225 kgs)
Foot rest	Foldable foot-rest for easy patient seating.

Mechanical Specifications

System weight	1100 lbs (500 kgs)
Floor load	1.394 lbs / in ² (9613 N / m ²)

System Dimensions

Length	Base 42" (1066 mm)
Width	Base 30.5" (775 mm)
Height	Top Bare 44.5" (1130 mm)

System Nema Specifications

Intrinsic energy resolution for Tc99 ^m	9.7%
CFOV Intrinsic Spatial Resolution	2.8 mm (FWHM)
System Spatial Resolution (LEHR)	7.1 mm (FWHM)

Intrinsic Flood Field Uniformity	
Differential CFOV	1.9%
Integral CFOV	2.4%
Differential UFOV	2.4%
Integral UFOV	2.9%

Intrinsic Spatial Linearity	
Differential CFOV	0.18 mm
Absolute CFOV	0.38 mm
Differential UFOV	0.20 mm
Absolute UFOV	0.40 mm

Maximum count rate (20% window)	>220,000 cps
System sensitivity (LEHR collimator)	150 cpm/μCi

Environmental Conditions

Temperature range	69.8 ± 5.4°F (+21± 3°C)
Maximum variation rate	5.4°F / hour (3°C /hour)
Relative humidity	40%-80% non-condensing

Electrical Specifications

Main voltages	115 / 230 V AC ± 10% 45-63 Hz Single Phase.
Power consumption	1.5 KVA
Required fuse	16A contact breaker
Heat dissipation	< 5000 BTU / hour

Options & Accessories

innova P!	P! Image processing workstation
UPS-1500	1.5 KVA stabilized UPS
innova Gate	ECG gating device for Gated SPECT acquisition
Printers	Supports any Windows XP compatible printer, including ink-jet, laser and DICOM printers.

Collimator Name	Collimator Type	hole length [mm]	hole size [mm]	septal thickness [mm]	nominal energy [keV]	septal penetration @ nominal energy [%]	geometric/ system resolution at 10 cm [FWHM mm]	geometric/ sys sensitivity [cpm/μCi]
C- LEHS	Low Energy High Sensitivity	26	2.5	0.3	140	2.1	13.7 / 13.9	1000 / 790
C-LEGP	Low Energy General Purpose	35	1.9	0.2	140	1.1	8.2 / 8.9	320 / 260
C-LEHR	Low Energy High Resolution	35	1.5	0.16	140	1	6.5 / 7.4	180 / 150
C-LEUHR	Low Energy Ultra High Resolution	40	1.4	0.16	140	0.4	5.4 / 6.5	133 / 100
C-MEGP	Medium Energy General Purpose	35	2.5	1.2	300	1.9	11.1 / 11.6	330 / 200