

AXIS™



AXIS™

A Variable Angle, Dual-Detector Gamma Camera

TECHNICAL SPECIFICATIONS

GANTRY

Type	variable tangential geometry, dual-detector floor mounted gantry
Variable tangential range	27.3 cm (10.8 in.)
Aperture	70 cm (27.5 in.)
Rotation arc	480°
Rotation speed	.025 RPM min. 1.5 RPM max.

DETECTORS

Geometry	180° opposed 90° angulated 102° angulated
UFOV dimensions	393 mm x 533 mm (15.5 in. x 21 in.)
Crystal thickness	9.5 mm (0.375 in.) standard 19.0 mm (0.75 in.) optional (required for γ PET imaging)
Brain reach	8.6 cm (3.5 in.)
Energy range	50–511 KeV
Aperture (LE collimators):	24.7 cm to 75.4 cm (9.75 in. to 29.7 in.)
Positioning accuracy:	+/- 1 mm
Clinical protocols:	SPECT, planar, whole body, and PET imaging

PATIENT TABLE

Size	198 cm (6 ft. 6 in.) planar/SPECT coverage
Maximum patient weight	181 kg (400 lbs)
Patient loading height	49.5 cm (19.5 in.)
Vertical movement	49.5 cm to 96.5 cm from floor (19.5 in. to 38 in.)

INSTALLATION REQUIREMENTS

Power Requirements

Gantry Assembly	
Voltage	200/208/220/240 V, 20 A
Frequency	50–60 Hz
Heat output	6800 BTU/hr peak 3400 BTU/hr average

Odyssey LX Computer

Voltage	105–125 V, 20 A
Frequency	50–60 Hz
Heat output	1000 BTU/hr peak

Optional Acquisition and Display Terminal

Voltage	105–125 V, 15 A
Frequency	50–60 Hz
Heat output	1500 BTU/hr peak

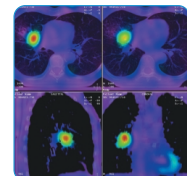
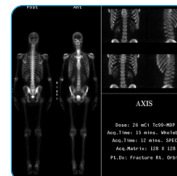
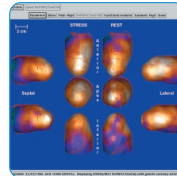
The power source supplying the AXIS system shall be single phase, 2-wire plus dedicated/isolated ground and neutral (4-wire). The source should be sized for 4 kVA load.

Recommended Room Size

Size	4.73 m (15 ft. 6 in.) (L) 3.96 m (13 ft.) (W)
Minimum floor space	18.8 sqm (202 sq. ft.)
Ceiling height	274 cm (9 ft.) above finished floor

ENVIRONMENTAL REQUIREMENTS

Temperature	20° C to 24° C (68° F to 75° F)
Humidity	45% to 80% relative humidity (non-condensing)



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COLLIMATORS			
Low Energy	Medium Energy	High Energy	Positron Energy
LED*	MEGP	HEGP*	
LEGP		HE Pinhole	PET Axial Filters
LEHR			PET 3D Frame
LEUHR			
LEUHRFB*			

INTERCHANGEABLE CARBON FIBER PALLETS

Standard pallet	38.1 cm (15 in.) width 16 mm (.63 in.) thick 7% attenuation at 140 KeV
Optional small patient pallet	38.1 cm (15 in.) width and 30.5 cm (12 in.) width 16 mm (.63 in.) thick 7% attenuation at 140 KeV
Optional pediatric cradle	18.8 cm (7 in.) width .32 cm (.13 in.) thick

EQUIPMENT DIMENSIONS

AXIS Gantry

Width	193 cm (76 in.)
Depth	147 cm (58 in.) 188 cm (74 in.)
Height	170 cm (67 in.) 208 cm (82 in.) with Pscope
Weight	2455 kg (5,400 lbs)

Patient Support Table (base)

Width	48 cm (19 in.)
Depth	244 cm (96.25 in.)
Height	96.5 cm max. (38 in.) 49.5 cm min. (19.5 in.)
Weight	363.6 kg (800 lbs)

Odyssey Workstation (optional workstation table)

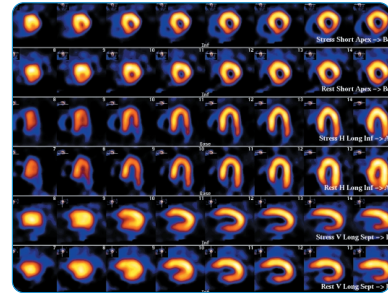
Width	152 cm (60 in.)
Depth	76 cm (30 in.)
Height	135 cm (53 in.)
Weight	45.5 kg (100 lbs)

Collimator Server/Storer

Width	86 cm (34 in.)
Depth	87 cm (34.3 in.)
Height	127.5 cm (50.2 in.)
Weight	AXIS server: 79.6 kg (175 lbs) AXIS server with 2 LE coll: 132 kg (289 lbs) AXIS server with 2 HE coll: 285 kg (625 lbs)

Codonics Printer (optional)

Width	43 cm (17 in.)
Depth	53 cm (21 in.)



102° geometry for high throughput cardiac SPECT imaging with excellent spatial resolution

PHILIPS NUCLEAR MEDICINE

540 Alder Drive
Milpitas, CA 95035
800-538-8351
www.medical.philips.com

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AXIS-002



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