

NeuViz 16

New Platform State of the Art
16 Row Spiral CT Scanner*

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- 5.0 MHU X-ray tube by Philips
- Large 70cm aperture
- 0.5 second spiral acquisition
- 100 seconds of continuous scanning
- 1024 x 1024 display matrix
- Minimum .75mm slice thickness
- 672x24 channels, Solid State GOS
- 6 images/sec spiral scanning acquisitions
- ± 30 Gantry Tilt
- Dicom 3.0 interface, Modality Work list,
- HIS, RIS, and MPPS
- Rich imaging techniques including 3D SSD, MPR, CT Angiography, Virtual Endoscopy, Perfusion, Advanced vessel analysis, Coronary Analysis, Brain Perfusion, Calcium Scoring, and CTC/VC

NEW GI Applications:

CT Colonography/ Virtual Colonoscopy

Advanced Colonmetrix by Barco

Enhanced productivity

- Multiple reading paradigms: 2D review, 3D endoluminal and dissected view
- Automatic high-speed center line finding
- GPU accelerated 3D fly through navigation
- Synchronized 2D/3D review prone and supine
- Transparent 3D map of the entire colon
- Automatic one-click colon segmentation
- Auto-measure distance from anus

Effective image analysis

- Lumen tracking for visualization of the entire colon
- One click to bookmark and return to any lesion
- Quick and easy 3D and 2D measurement tools

Rapid reporting

- On-the-fly DICOM reporting
- Integrated reporting of incidental findings
- AVI movie output from fly through

Urology Applications:

including Kidney Function Differential, Stone/Mass Analysis, Renal 3D, GFR, AP projection of Abdominal Pelvis

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Technical Specification

Scanning Mode	Surview, Axial, Spiral		
Scan Speed	.5 -2.0 seconds	Tube current	30 - 420mA
Max. Continuous scanning time	100 sec.	Image reconstruction time	6 images/ second
Max. Continuous scanning length	1500mm	Image reconstruction matrix	512 x 512, 768 x 768, 1024 x 1024
Pitch	0.2:1~1.5:1	Image display matrix	1024 x 1024
Slice thickness	0.75 - 1.5	High contrast resolution	15 lp/cm @ 0% MTF
Detector	2 4x 672 channels, Solid State GOS	Low contrast resolution	4.0 mm @ 0.3%
Gantry tilt angle	±30°	Range of CT value	-1024~ +3072
Gantry aperture	700 mm	Monitor	19" LCD
FOV	25~500 mm	Hard disk	160 GB
Tube heat storage capacity	5.0 MHU	System memory	4 GB
Tube cooling	oil / air	Range of vertical movement of couch	430 mm - 970mm
Tube focal spots	.5x1.3mm; 1x1.3mm	Range of horizontal movement of couch	1580 mm
X-ray generator	50 KW	Maximum load capacity of couch	200 Kg, 440 lbs

Dimension and Weight

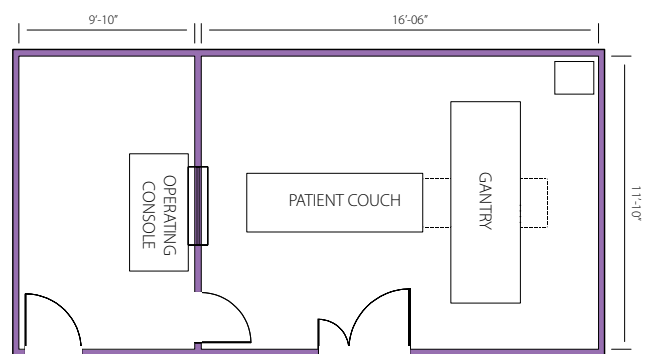
	Length	Width	Height	Weight
Gantry	7'-3"	3'-0"	6'-3"	4188 lbs
Patient couch	7'-11"	1'-10"	2'-2"	948 lbs

Working Environment

	Temperature	Relative humidity
Scanning Room	70°±5° F	30%-70% , non-condensing
Operation Room	70°±5° F	20%-80% , non-condensing

Installation Requirements

Main Power Supply	3-phase, 4-wire Y-connection
Nominal power rating	50 KVA/65KVA
Main frequency	50/60 Hz
Main Voltage	380V/220V, Voltage transformer can be provided to meet any other main voltage requirements



Room Layout[†]

[†] Minimal Room Layout

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Note: The appearance and specifications are subject to change without prior notice.