# New Platform State of the Art

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

# **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 centerline finding
- GPU accelerated 3D flythrough 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 flythrough

# New Urology Applications

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

# 5.0 MHU X-ray tube by Philips

- Large 70cm aperture
- 0.5 second spiral acquisition
- 120 seconds of continuous scanning
- 1024 x 1024 display matrix
- Minimum .75mm slice thickness
- I6 x 1008 channels, Ultra Fast Ceramic
- Sub second spiral scanning acquisitions
- ± 30 Gantry Tilt
- Dicom 3.0 interface, Modality Worklist, HIS, RIS, and MPPS
- Rich imaging techniques including
  3D SSD, MPR, CT Angiography, Virtual
  Endoscopy, Perfusion, Advanced vessel
  analysis, Coronary Analysis, Brain
  Perfusion, Calcuim Scoring , and CTC/VC

Technical Specification	
Scanning Mode	Pilot scan, slice scan and spiral scan
Scan time	0.5 - 2 seconds
Max. Continuous scanning time	120 sec.
Pitch	0.2:1~1.5:1
Slice thickness	.75 mm minimum
Detector	16 x 1008 channels, Ultra Fast Ceramic
Gantry tilt angle	±30°
Gantry aperture	700 mm
FOV	25~500 mm
Tube heat storage capacity	5.0 MHU
Tube cooling	oil / air
Tube focal spots	0.4 x 0.7 mm
X-ray generator	42 KW
Tube voltage	90 -140 KV
Tube current	30-420 mA
Image reconstruction time	Sub Second
Image reconstruction matrix	512 x 512
Image display matrix	1024 x 1024
High contrast resolution	15 lp/cm @ 0% MTF
Low contrast resolution	4.0 mm @ 0.3%
Range of CT value	-1024~ +3072
Monitor	19" LCD
Hard disk	160 GB
System memory	4 GB
Lowest height of couch	< 430 mm
Range of vertical movement of couch	>430 - 980 mm
Range of horizontal movement of couch	0- 1600 mm
Maximum load capacity of couch	450 lbs

#### **Authorized Distributor**



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# NeuViz 16

Dimension and Weight				
	Length	Width	Height	Weight
Gantry	7'-3″	3'-0″	6′-3″	3748 lbs
Patient couch	7′-11″	1'-10″	2'-2″	882 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	65KVA	
Main Voltage	480V/208V, Voltage transformer can be provided to meet any other main voltage requirements	
Main frequency	60 Hz	

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



<sup>†</sup> Minimal Room Layout