

16 Multi-slice CT Scanner System

Standard Configuration

Components	Description
Gantry	1 no.
Low voltage Slip-ring rotating gantry	
50 KW High Voltage Generator	
Dual focus oil-cooled tube	
High sensitivity GOS Solid-state 24-row Detector	
Patient Table	1 no.
Operating Console	1 no.
19" LCD Monitor	
3D Software Packages	1 no.
Accessories	1 no.
Couch accessories box	
One set of phantoms and maintenance tools	
Tool box	
System phantom(QC)	
Console UPS	
User Manual	
Dolly	
Computer Table	
0.5 sec Rotation	



Technical Specification

Component Performance

Item	Specification
Gantry	
Detector No./type	672×24 channels; GOS solid state
Scanning time	0.5s,0.6s, 0.75s,1s, 1.5s, 2s,(360°rotation)
Collimation Slice thickness	16X1.5mm,12X1.5mm,10X1.5mm,16X0.75mm, 12X0.75mm,8X0.75mm,4X0.75mm,2X0.75mm
Gantry tilt	±30°
Gantry aperture	700mm
X-ray tube	
Max. Heat capability	5.0MHU
X-ray generator	
Powering rate	50 kW
Patient couch	
Vertical movement range	43-97 cm
Horizontal movement range	0-1580 mm
Max. scan range	1500 mm
Max. Load capacity	200Kg
Operator console	
FOV	50-500mm
Reconstruction matrixes	512×512
Display matrixes	1024×1024
Reconstruction speed	6 Images per Second for real time reconstruction
Monitor	19" LCD

System Performance

Item	Specification
Scan mode	Pilot scan, axial scan and spiral scan
Axial scan: Scan time	0.5s,0.6s, 0.75s,1s, 1.5s,2s, (360°rotation)
Spiral scan: Scan time	0.5s,0.6s,0.75s,1s, 1.5s, 2s,(360°rotation)
Range of pitch	0.5:1 --- 1.5:1
High contrast spatial resolution	15 lp/cm@ cutoff
Low contrast resolution	4.0 mm@0.3%

software package	<ul style="list-style-type: none"> – 3D SSD – VR (Volume Rendering) – Maximum Intensity Projection (MIP) – Minimum Intensity Projection (MinIP) – Multi-Planer Reconstruction (MPR) – Curved MPR (CPR) – Auto Voice – Auto Film – CT Angiography (CTA) – Virtual Endoscopy (VE) – Pediatric protocols – DoseRight – 0.5s Scan – Remote Service System
DICOM3.0 compatible	Yes
Power requirements	
Power capacity	80 KVA
Voltage	3-phase : 380V±20%
3-phase imbalance	≤5%
Frequency	50Hz ± 1Hz
Power GD.	Power ground independent grounding system impedance≤4Ω, or integrated grounding system impedance ≤1Ω
Environmental requirements	
Temperature of scanning room	18°C ~ 24°C with variation ≤5°C/hour
Humidity of scanning room	30% ~ 60%(Non-condensing)
Temperature of operation room	15°C ~ 30°C with variation ≤5°C/hour
Humidity of operation room	20% ~ 80%(Non-condensing)
Atmospheric pressure	70kPa ~ 106kPa
Temperature of transportation and storage	-20°C ~ +55°C with variation less than 10°C/hour
Humidity of transportation and storage	10% ~ 90%(Non-condensing)