

# Professional **CT SCAN / CT Scanner Machine** for Hospital Checking



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No.	Feature	Description
<b>1</b>	<b>Gantry</b>	
1.1	Gantry Type	PowerLink™ PowerLink™ Non-Slip Technology
1.2	Gantry Driven Type	Motor Driven
1.3	Patient Opening	70cm
1.4	Tilt Capability	±30°
1.5	Gantry Remote-Control	Provided
1.6	Detector Type	GOS GOS Rare-earth Ceramic Detector
1.7	Distance of Focus-Isocenter	54cm
1.8	Numbers of Detector Rows	24
1.9	Width of Z-Axle Detector	20mm
1.10	Detector Columns of Channels per Row	896
1.11	Numbers of Detector Columns	21504
1.12	DAS Acquisition Modes	0.625mm x 16 1.250mm x 16
1.13	Data-Transfer Type	RF
1.14	3D Laser Orientation	Provided
1.15	External X-Ray Enable	Interface for Foot-Pedal Provided
1.16	Automatic Exposure Control ( mA Modulation )	Provided
1.17	Auto-Voice Manager	Breath Graphical Display Hold Message (Record/Playback) Breath Message(Record/Playback)
<b>2</b>	<b>Scan Parameter</b>	
2.1	Shortest 360 Degree Rotation Time	0.5s
2.2	Allowed Rotation Times	0.5s, 0.8s, 1.0s, 2.0s
2.3	Slice Numbers of Rotation	16
2.4	Minimum Slice Thickness of Scan	0.625mm
2.5	Minimum Slice Thickness of Reconstruction	0.625mm

2.6	Maximum Slice Thickness of Scan	10mm
2.7	Nominal Reconstruction Slice Thickness	0.625mm , 1.25mm , 2.5mm , 5.0mm, 10mm
2.8	Speed of Image Reconstruction (512 x 512)	40 frames/s
2.9	Scan FOV	50cm
2.10	Image Reconstruction Matrix	512 x 512
2.11	Image Display Matrix	512 x 512
2.12	Maximum Continuous Scan Duration	120s
2.13	Maximum Continuous Scan Length	160cm
2.14	Direction of TOPO	Front-Back, Left-Right
2.15	Length of TOPO	160cm
2.16	Range of Pitch	0.5, 0.75, 1.0, 1.5
2.17	Scan Mode	Scout Scan Axial Scan Helical Scan Cine Scan
<b>3</b>	<b>HVPS and Tube</b>	
3.1	Maximum Continuous Output Power of Generator	60kW
3.2	Tube kVP Selections	80kV, 100 kV, 120 kV, 140 kV
3.3	Tube mA Range	10~500mA
3.4	Tube Heat Capacity	5.0MHU
3.5	Heat Dissipation Rate	815kHU/min
3.6	Type of Cooling	Oil Cooled
3.7	Tube Focus	(Large): 1.0mm x 1.0mm (Small): 0.5mm x 1.0mm
3.8	Dynamic Focal Spot Tracking	Provided
<b>4</b>	<b>Patient Table</b>	
4.1	Maximum Horizontal-Movable Range	160cm
4.2	Table Horizontal-Scannable Range	160cm
4.3	Table Horizontal-Position Repeatability	±0.25mm
4.4	Table Vertical-Movable Range	49.2-98cm
4.5	Maximum Speed of Vertical Movement	20mm/s

4.6	Maximum Patient Weight	204kg
4.7	Foot Pedal of Table	Provided
<b>5</b>	<b>Image Quality</b>	
5.1	High Contrast Resolution	17.5LP/cm (0%MTF)
5.2	Low Contrast Resolution	5.0mm@0.30% (13.0mGy) 3.0mm@0.30% (30.0mGy)
5.3	Isotropic Imaging Resolution	0.625mm
5.4	Range of CT Numbers	-1024~3071 Extended Range -10240~30710
5.5	Image Noise	0.29~0.35@28mGy
<b>6</b>	<b>Computer</b>	
6.1	CPU	Intel i5 3.2G
6.2	Memory	8GB
6.3	Storage of Hard-Disk	1T
6.4	Monitor	24" 24" LCD Monitor
6.5	Resolution of Monitor	1900 x 1200
6.6	Image-Data External Storage Type	CD/DVD/USB
6.7	Time of Image Reconstruction (512 x 512)	25ms/ Frame
6.8	DICOM 3.0 Interface	Provided
6.9	Printer DICOM 3.0 Interface	Provided
6.10	Auto Filming	Provided
6.11	Worklist	Provided
6.12	3D Post-Processing of Main Computer	MRP、SSD、MIP、MinIP、VR、CTA



## Outstanding Clinical Images

Head: Conventional, Parasagittal Sinus, MPR, SSD, VR, CTA, HD Inner Ear  
Cervical Vertebra: Conventional, MPR, VR, CTA  
Chest: Conventional(Lung Window, Mediastinal Window), MPR, VR, MinIP  
Abdomen: Conventional, Enhancement(3 Phases), MPR, VR, CTA  
Extremities and Joints: Conventional, MPR, VR

