

TurboTom 1S PLUS Datasheet



SL.NO.	DESCRIPTION OF ITEMS
1.	<p>32 Slice CT Scanner for the whole-body scanning. MODEL – TURBOTOM 1S Mfg : Beijing Wandong Medical Technology Co., Ltd. Country of Origin: China</p>

Configuration:

Hardware:

	Name	Model	Quantity
X-Ray System	Generator	CTHVG X4202	1
	X-ray tube	XRC-4555X	1
	Collimator	CTXS-7	1
Imaging System	Imaging Software	TurboTom 1S PRO CT SOFTWARE	1
	Detector	WDDAS-7	1
	Monitor	MD26C	1
	Acquisition Workstation		1
	Post processing Workstation		1
Other Hardware	Gantry	SMJ-6	1
	Patient Table	SMC-2	1
	CT Console	CTBOX-2	1
	Power Distribution		1

Technical Specification:

Detector:

Scintillator material	: GOS
Physical row number	: 24 rows
Sub millimeter Z-axis coverage	: 19.2mm
Number of detector unit per row	: 720
Minimum Z-axis size of detector unit	: 0.6mm

Generator:

Power	: 42kW
Operating Tube voltage (KV)	: 70KV, 80KV, 100KV, 120KV, 140KV
mA range	: 10mA ~ 350mA

X-ray Tube:

Liquid bearing tube with high heat dissipation	
Anode storage capacity	: 4.0 MHU
Focal spot (IEC)	: 0.7 mm x 0.9 mm (small) 1.4 mm x 1.4 mm (large)
Cooling method	: Oil cooling & Air cooling

Gantry:

Gantry Aperture	: 70cm
Slip ring type	: Low voltage slip ring
Data transmission mode	: Radio frequency & optical fiber
Gantry Digital Tilting	: $\pm 30^\circ$
Three-dimensional laser positioning system	: Available
Gantry cooling mode	: Air Cooling
Gantry control panel	: Available
Graphical tips for breathing control	: Available
Voice prompts for breath control	: Available

Scanning parameters:

Scanning layer/360°	: 32 Slice image/360°
Fastest scanning time/360°	: 0.5s,/0.75s/1s/1.5s
Scanning layer thickness	: 0.6mm
Pitch range	: 0.15-1.5mm
Free pitch selecting	: Yes
Scanning mode	: Scout image, axial, spiral
Image reconstruction matrix	: 1024 x 1024 HD reconstruction matrix
Single spiral scanning time	: 100s
Spatial resolution (X-Y) plane	: 15lp/cm

Table:

Maximum range of movement	: 210cm
Maximum scan range in a single spiral	: 162cm
Positioning image length	: 192cm
Tabletop vertical movement range	: 460mm-1020mm
Control foot switch of table	: Available
Maximum load capacity of table	: 210kg
Table movement control	: manual & motorized

Acquisition Workstation:

CPU	: ≥6 Core
RAM	: 32GB
HDD	: 2TB
Monitor	: 24 inch
Image format & transfer	: DICOM 3.0
Remote control service	: Available

Clinical function Software:

Low dose lung scanning technology	: Available
Low dose child scanning technology	: Available
Intelligent tube current automatic regulation technology	: Available
Iterative noise reduction technique	: Available
Beam hardening artifact correction software	: Available
Image optimization of posterior fossa	: Available
3D reconstruction function	: Available
Report function	: Available
Print function	: Available

Post Processing Workstation :

CPU	: ≥6 Core
RAM	: 16GB
HDD	: 1T
Monitor	: 23 inch
CD/ DVD R/W	: Yes
Image format & transfer	: standard DICOM 3.0
Image storage (512 x 512)	: ≥800,000
Two-way image transmission between workstation and host computer	: Available

System Software:

Smart Flow	: Available
Intelligent respiratory navigation system	: Available
Smart Dose technologies	: Available
Variable milliamperage technology	: Available
Exposure dose level technique	: Available
Metal Artifact Reduction (MAR)	: Available
Motion Artifact Correction	: Available
Cone Beam Artifact Correction	: Available

Image Reconstruction:

Multi planar Reconstruction (MPR)	: Available
Curved planar Reconstruction (CPR)	: Available
Surface Reconstruction (SR)	: Available
Virtual scalpel	: Available
Volume Rendering (VR)	: Available
Surface mask display (SSD)	: Available
CTA without Bones	: Available
CTA subtraction	: Available
Bones Subtraction	: Available
Virtual endoscope (VE)	: Available

Application Software:

- Comprehensive Vascular Analysis included
- Intelligent Spine Analysis Optional
- Intelligent Rib Analysis Optional
- Comprehensive Colon Display Technique Optional
- Intelligent Recognition of Pulmonary Nodules Optional
- Intelligent CT Dental Analysis Optional
- CT Maxillofacial Reconstruction Optional
- Intelligent Pulmonary Function Assessment Optional
- Intelligent Lung Fluid Analysis Optional
- Lung Texture Analysis Function Optional
- Intelligent Analysis of Ureters Optional
- Efficient Analysis of Urinary Stones Optional