

32 slice spiral CT

Technical specification



1, technical specifications and parameters

1.1 rack system

1.1.1 frame size: 76cm, angle: ± 30 degrees, can be remote control operation into / out, rise / fall bed and scan rack tilt.

1.1.2 slip ring type: low pressure type slip ring

1.1.3 detector type: GOS solid detector

1.1.4 detector array: 32

2.1 X-ray system

2.1.1 bulb tube anode heat capacity: 5.3MHU

2.1.2 The maximum cooling rate of bulb tube is 815 kHU/min

2.1.3 small focus: 0.5 x 1 mm

2.1.4 big focus: 1 x 1 mm

2.1.5 focus to the scanning field and other central distance: 570mm

2.1.6 minimum ball tube voltage: 80kV

2.1.7 maximum ball tube voltage: 140kV

2.1.8 high voltage generator power: 50.4kW

2.1.9 minimum current: 10mA

2.1.10 maximum current: 442mA

2.2 scan bed

2.2.1 maximum scan range (no metal range): 1950mm

2.2.2 The highest point in the vertical movement of the bed is 990mm, the lowest of the vertical movement of the bed is: 425mm

2.2.3 maximum bed surface movement speed: 150 mm/s; minimum movement speed: 5 mm/s



2.2.4 bed surface movement accuracy: ± 0.25 mm

2.2.5 the bed load: 250kg

2.3 console and computer system

2.3.1 The main console

2.3.1.1 master computer: HP Z840

2.3.1.2 computer memory: 32GB

2.3.1.3 host hard drive: 7TB

2.3.1.4 CD-ROM disc recorder system (DICOM compatibility)

2.3.1.5 color LCD flat-panel monitors flicker 1 unit (progressive):

2.3.1.6 standard DICOM3.0 interface: standard configuration, with the following functions:

Send / receive

Query / retrieval

Basic print function

Storage

Network interface (RIS / HIS)

2.3.1.7 laser camera interface

2.3.1.8 Remote diagnosis system and remote diagnosis platform

2.3.1.9 virtual photo typesetting function

2.3.1.10 console color 3D display

2.3.2 advanced video postprocessing workstation

2.3.2.1 offers a range of clinical image processing software, such as MPR, VR, SSD, the maximum and minimum software package Projection; standard configuration volume measurement software.

2.4 scan parameters

2.4.1 scan time: 0.5, 0.6, 0.7, 0.8, 1, 2 sec

2.4.2 imaging speed (number of scan per scan): 32slice/loop

2.4.3 scan layer thickness: 16 x 0.625

2.4.4 scan layer thickness: 0.625mm, 1mm, 1.25mm, 2.5mm, 2mm, 3mm, 4mm, 6mm, 5mm, 7mm, 8mm, 9mm, 10mm

2.4.5 minimum reconstruction display field (FOV): 50mm

2.4.6 maximum reconstruction display field (FOV): 500cm

2.4.7 image reconstruction matrix: 512 * 512

2.4.8 single scan time: 100 sec

2.4.9 maximum scan pitch (Factor Pitch): 1.75:1

2.4.10 minimum Factor (Pitch): 0.15:1

2.4.11 positioning piece length: 1890 mm

2.5 image quality

2.5.1 spatial resolution (X, Y axis plane): 20 lp/cm 0% MTF

2.5.2 spatial resolution (Z axis): 20 lp/cm 0% MTF

2.5.3 density resolution: (indicating the scan conditions): @0.30% 3mm

2.5.4 CTDIvol: Head 16.6mGy/100mAs Body; 8.6mGy/100mAs