PHILIPS MX 8000 DUAL

Technical Specifications

Scan time 0.3* (240 degrees), 0.42**, 0.5*, 0.75, 1, 1.5 & 2 seconds

Spiral on-time Dual: 60 seconds continuous, 100 seconds (optional)

Spiral pitches Dual: 0.375 to 2.0

Slice thickness Dual/Quad: 0.5*, 1.0, 2.5, 5, 8 & 10mm

Scan angle 200, 240, 360, 420 degrees

Scan plane Gantry tilt range of ± 30 degrees

Pilot Up to 1,500mm scan length, 500mm scan width

Image processing 2,320 views/revolution/element

Reconstruction matrices of 340₂, 512₂, 768₂* & 1,024₂*

System color monitor 21 inch, 1,280 x 1,024, high resolution

CT number range -1,000 to +3,096 Hounsfield units

Host Computer Dual/Quad: Silicon Graphics® RISC host computer with UNIX multitasking

> graphic interface, SGI R5000 RISC processor at 300 MHz Hard drive: 9GB SCSI Optional EOD write to 4.1 or 2.3GB. Read from 4.1, 2.3 or 1.2GB

Reconstruction **Processor**

Dual/Quad: 1.9 GIPS (giga instructions per second) fast array processor 1GB*

RAM memory (512 MB standard) 36GB fast disk array for scan data

Reconstruction time Dual/Quad: 2 images/second:optional,

image/second standard for 5122 images

Spatial resolution 24.0 Lp/cm in ultrahigh mode, at 2% MTF

Low contrast resolution 4.0mm at 0.3% with 27mGy (20cm CATPHAN phantom)

Noise Dual: 0.27%, 27 mGy as measured on a 21.6cm

water equivalent phantom

Generator Dual: 48 kW standard, mA selections from 28 to 400 in 1 mA increments.

during scan Maximum heat anode storage: 6.5 M.H.U. Maximum anode cooling X-ray tube

rate: 730 k.H.U./minute. Dual focal spot: 0.5mm x 0.7mm

Detectors Dual: 1,342 elements in two distinct arcs 20mm z-axis coverage

Dynamic range Field of view 1,000,000:1 50cm field of view (DFOV) inside 70cm aperture

DICOM DICOM 3.0 hierarchical model in a DICOM 3.0 image format. Advanced

database type sorting of patients and images enables fast and easy

manipulation of files. 100 mB/sec network interface

Mx8000 supports Service Class User, Service Class Provider, DICOM Print, Modality Worklist, Query/Retrieve, Perform Procedure Step, Storage

Gantry 70cm aperture Controls for gantry tilt, table elevation, stroke and swivel are

1.0 conveniently located on both sides of the gantry and on the operator

console

Patient support Commitment. Removable media

1,570mm scannable range, 200 kg (440 lbs.)

2.0 capacity with ±0.25mm accuracy

*optional for Mx8000 Dual