

## CT Scan Specifications

### Technical Requirements

1. 360 degree rotation < 400 msc
2. Minimum number of samples per rotation (images, slices)  $\geq 64$
3. Display CTDIvol (dose) before scan, with dose alert
4. Display DLP (dose) after exposure
5. Advance Dose Regulation
6. Detector element width  $\leq .625$
7. Automated Ma regulation
8. Retrospective and prospective gated ECG scan
9. ECG triggered scanning
10. ECG monitor
11. Contrast timed injections (bolus chase)
12. Bayer Medrad injector interface
13. 50cm full field scan
14. Patient weight capacity  $\geq 500$  lbs.
15. Reconstruction of images > 24 per second including iterative reconstruction
16. HL7 integration (HIS/RIS)
17. DICOM and IHE- Q/R, MWM, Storage commit SCU, MPPS
18. Power conditioning as recommended by CT Scanner provider
19. UPS to maintain total system functionality for 10 minutes without facility power
20. Separate 3D workstation for applications processing
21. If Windows is loaded on a workstation, it must be Windows 7 or latest version

### Advanced Applications

1. CT brain perfusion
2. CT cardiac
3. CT colonography
4. CT lung nodule
5. Quantitative CT lung screening low dose
6. Dual-energy imaging
7. CT biopsy guidance
8. Metal and prosthetic artifact reduction
9. CTA
10. 3D reconstruction
11. Integration to 3<sup>rd</sup> party advanced visualization system
12. Lung screening computer aided diagnostics

### Training

1. On-site or off-site clinical applications training for physician (2 physicians – tuition, lodging, and travel)
2. Pre-installation clinical education for technologists (2 technologists – tuition, lodging, and travel)
3. On-site clinical education for technologists training for go live (40 hours)

4. Follow up on-site clinical education training (24 hours)
5. Full Biomed System training CT Image Review Server (2 engineers – tuition, lodging, and travel)

**Optional Items**

1. Bariatric table rated for full travel at maximum scan speed
2. Dual energy scanning
3. Extended 6 months warranty
4. CT fluoroscopy
5. Bone densitometry

**Optional Training Items**

1. All prerequisite courses are including in the training costs.

**Support and other Documentation to Provide:**

1. Provide DICOM Conformance Statement
2. Provide completed Pre-procurement Assessment form (6550) and MDS<sup>2</sup> document
3. Provide information about your companies support structure during the warranty period (i.e. a listing of Field Service Engineer locations and availability, support 800 phone number(s), remote support, etc.)
4. Please provide version/platform long-range plan
5. Two complete sets of the operator and maintenance manuals
  - 5.1. One set of each must be hardcopy and the other set must be on a DVD/CD

**Trade In**

1. Toshiba Aquilon 4CT