

IR Suite

Technical Requirements

1. System
 - 1.1. Single Plane
 - 1.2. Ability to offer either floor and/or ceiling mounted systems
 - 1.3. High-capacity x-ray tube
 - 1.4. 100 kW Generator
 - 1.5. Flat Panel Detector ($\geq 30\text{cm} \times 30\text{cm}$)
 - 1.6. 1 Large display monitor (56 inch or greater) with inputs for at least six sources
 - 1.7. Backup monitors (at least 2 each)
 - 1.8. Multiple options of high resolution image/data viewing configurations
 - 1.9. 3D continuous rotational acquisition
 - 1.10. Cone-beam CT reconstruction with head-to-toe coverage
 - 1.11. Run-off capability with automated bolus chasing
 - 1.12. Ceiling mounted radiation shield and under the table shield
 - 1.13. Wireless headset intercom system
2. Table
 - 2.1. 500 lb weight limit (minimum)
 - 2.2. Ability to tilt cranial and caudal ≥ 15 degrees
 - 2.3. Cradeling
 - 2.4. Rotation ≥ 180 degrees
 - 2.5. Multiple options for controls (i.e. foot, at tableside, etc.)
 - 2.6. Integrated ultrasound capability
 - 2.7. Remote control capabilities (i.e. for exposure and monitors)
 - 2.8. Table must include arm rests for supine and prone procedures, including a head rest
 - 2.9. Mattress pad
 - 2.10. Autopositioning
 - 2.11. Arm boards and head holder
 - 2.12. Table side floor mats that are specifically antimicrobial
3. Hardware/Software
 - 3.1. Operators console with expanded memory
 - 3.2. Fusion between modalities, i.e., CT, MRI, & PET and Dynamic CT, shown on screen with real-time fluoro overlay, ability to use the built in laser guidance with loaded images.
 - 3.3. Laser guidance for biopsies from 3D roadmap.
 - 3.4. Workstation UPS for operators console
 - 3.5. Integrated System Shielding
 - 3.5.1. Soft and hard shutter shielding
 - 3.5.2. Filters necessary for radiation safety efficacy
 - 3.6. HL7 and necessary licenses for integration ancillary equipment
 - 3.7. Dose reduction features including fluoro save, pulse fluoro
 - 3.8. Software:
 - 3.8.1. Digital Subtraction Angiography
 - 3.8.2. Stenosis Measurement

- 3.8.3. Vessel Analysis/Mapping
- 3.8.4. Peripheral Angiography
- 3.9. System UPS to maintain total system functionality for 10 minutes without facility power
- 3.10. Power conditioner as recommended by vendor
- 3.11. Patient Center items (audio sound system)
- 3.12. Rubber leaf filters
- 3.13. If Windows is loaded on a workstation, it must be Windows 7 or latest version
- 4. Interface Specifications
 - 4.1. Must be on the Vista Imaging Approved DICOM Modality Interface List
 - 4.2. Ability to interface with PACS
 - 4.3. 3rd party post processing workstation integration
 - 4.4. HL7 integration/HIS/RIS (Worklist)
 - 4.5. VPN/Remote access for service
 - 4.6. Ability to interface with 3rd party integration system
 - 4.7. Ability to integrate with Bayer injectors

Advanced Applications

- 1. Latest needle tracking, cryoablation software, and multi-modality software included
- 2. The ability to fuse images from CT, MRI and ultrasound
- 3. Software to aide with positioning of a needle using an ultrasound device
- 4. Cone Beam/3D image capable/CT-IR Imaging/Cross-beam for needle localization
- 5. Post processing workstation
- 6. Ability to integrate multiple modalities into the software/workstation of the IR unit
- 7. IVUS integration (Volcano)
- 8. Ability to do rotational imaging
- 9. Neuroradiological Software

Optional Items

- 1. Staff Dose Display System
- 2. Zero gravity personnel protection device

Training

- 1. Off site – Basic Clinical Training for two technologists on main system to include tuition, lodging, and travel
- 2. On site – Clinical Training for four physicians (minimum 24 hours)
- 3. On site Clinical Applications Training for technologists for startup (minimum 24 hours)
- 4. Follow up applications training to be performed after technologists have hands-on experience with the system
- 5. Off-site training for one Biomedical Engineering staff to include tuition, lodging, and travel

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 MDS² 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. None