

VAMC ALBANY, NY
 PO# 528-B33014

QUANTITY	DESCRIPTION		
	<p>SHIMADZU SONIALVISION™ SAFIRE UNIVERSAL SYSTEM</p> <p>Universal Tilting/Elevating Radiographic / Fluoroscopic table with the following features: 89 Degree Vertical to 89 Degree Trendelenberg with continuously variable speed tilt Soft start and stop inverter drive motors Maximum tilt speed 90 degrees in 15 seconds Flat 235 X 76.5 table top Table Fully Functional with Patient Load up to 450 pounds and 700 pounds in case that the patient is lying horizontally and stationary Carbon fiber reinforced plastic (CFRP) table top for low attenuation Lateral Table to movement: 25 cm for peripheral studies (no longitudinal movements) Vertical table top movement: ZS-100I 47 to 110 cm All Digital Carriage, without SPOTFILMER. Enables the following: Improved image quality X-Ray dose reduction Enhanced field of view (closer to patient) Sonialvision increase table weight limit to 500 lbs for all movement</p> <p>Tableside (Local) Console with Console Cart and Foot Switch for Procedure Room with the following features: Image reversal (black/white, up/down) Fluoro image record Print Function Multi-image display (1,4,16 frame selection) Multi-function Shuttle Dial (selection of any reference image, window center/window level adjustment) Pulsed Fluoro selection APR selection (up to 7 items selectable) Fluoroscopic timer reset Film Density selection Memory Shot Motor driven Compression Cone 4 field Ion Chamber Footrest Shoulder rest Footswitch Compression Cone – motor driven Hand grips Table Mattress Barium Cup holder Compact and ergonomic design allows mounting only 4 inches from back wall</p> <p>INTEGRATED TUBE ARM FEATURES: Compact, integrated tube-Arm with 1.5 m SID Design allows for installation in a 107 square foot room with a 9 foot 4 inch recommended ceiling True multi-functional capabilities for R/F, Angio and interventional procedures</p>		

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	<p> Tube Arm travel: 155 cm for Head-to-Toe Coverage, including FPD size, in maximum, 198cm coverage Tube Arm speed: 15 cm/second continuously variable Tube Rotates +90 degree – 180 degree (motorized for stretcher and wall Bucky work) Tube Oblique Beam Angle +/- 40 degree for Cranial-Caudal projections 53cm space between gantry and table for improved patient access Easy patient access from either side of the table Tomography capability (with incorporated cassette tray) Exposure range FFD: 110cm, possible at any tilt angle from +89 to -89 degree Exposure angle 8, 20 30, 40 degree Speed maximum 40 degree/1.5 second Layer height: 0 to 250 mm on the tabletop Layer height automatic shift: 0, 5, 10, 15, 20 mm </p> <p> UD150B-40 Radiographic/Fluoroscopic High Frequency Inverter X-Ray Generator with the following features: High Frequency, 50 kHz inverter 80kW Radiographic Rating Micro processor Controlled LCD Touch Panel Advanced Anatomical Programming with 400 programs Two-Point (kV / mA) and three point (kV / mA / t) manual techniques and manual AEC / APR override capabilities Radiographic kV 40-150 Continuous Radiographic mA 10-1000 mA Time selection .001-10 seconds Detailed Exposure Factor settings with 12.5% increment exposure time or mAs Fluoroscopic kV 50 – 125 kV continuous Fluoroscopic mA 0.3 – 20 mA Fluoro Brightness Stabilizer Fluoroscopic Timer Exposure counter Anode heat calculator Compact, space saving control console, desk or wall mount Two X-Ray tube compatibility Requires 480 VAC, Three Phase power Automatic Exposure Control (AEC) High Speed Starter Digital Spot Control Board Pulsed Fluoro </p> <p> XAT-2H Step Up Transformer </p> <p> 17"x17" Flat Panel Imaging Receptor SAFIRE Flat Panel Detector Technology System Direct Conversion dynamic Flat Panel Detector SAFIRE Direct conversion technology 150 micrometer pixel technology for sharp diagnostic visualization Superior spatial resolution (MTF) Spatial resolution: 3.3 lp/mm 17 x 17 inch Full imaging field of view , edge to edge Acquisition frame rate: Max. 15fps High resolution image acquisition with dose reduction 2880 x 2880 matrix size for 17 inch Images obtained as 14 bit data and stored with a digital processing device </p>		

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	<p>as 12 bit data with out losing any image information Pulsed Fluoroscopy: High resolution, Low Dose Pulsed Fluoroscopy: Frame Rates: 3.75, 7.5, 15, or 30 fps</p> <p>FOV: Magnification (1) 43cm(17") sq, (2) 38.1cm(15") sq, (3) 30.5cm(12") sq, (4) 22.9cm(9") sq Includes : Amorphous-Selenium Direct Conversion 17 inch Flat Panel Detector Shimadzu Advanced Flat Imaging Receptor Panel Control Unit Power Supply Water Chiller Unit</p> <p>Digital Filter Suppresses halation and thereby greatly increases the visibility of blood vessels and devices Enables high-contrast images to be obtained with out a compensation filter</p> <p>Fluoroscopic X-Ray Tube: 750,000HU, 0.4 X 0.7 Focal, Grid Controlled Pulse Fluoroscopy Pair High Tension Fluoroscopic Cables R50 Polygonal Automatic collimator</p> <p>DAR-8000F Shimadzu PC Based high-throughput Digital System Includes: Max 2880x2880 (17"x17") Spot Image Acquisition Max 1440x1440 (17"x17") Serial image Acquisition at 15 fps Auto-Calibration, and image quality analysis/measurement software PC Tower electronics enclosure: 20" high x 9" wide x 26" deep High speed CPU Disk drive stores 20,000 images at 1024x1024 Windows operating system with intuitive graphic user interface PC keyboard with hotkeys Windows compatible wheel mouse Incorporated UPS CD-ROM drive Incorporated Scan Converter for Secondary Image Archive Device.</p> <p>Monitors (1) 18 inch 1280 x 1024 Flat Panel Monitor for Procedure Room 18 inch 1280 x 1024 Flat Panel Monitor for Control Room</p> <p>Acquisition</p> <p>Spot Acquisition (Original matrix mode) 2880x2880 matrix 12 bit (View field: 17"x17" (43cmx43cm)) 2560x2560 matrix 12 bit (View field: 15"x15" (38cmx38cm)) 2048x2048 matrix 12 bit (View field: 12"x12" (30cmx30cm)) 1536x1536 matrix 12 bit (View field: 9"x 9" (23cmx23cm))</p> <p>Spot Acquisition (Normal mode) 1440x1440 matrix 12 bit (View field: 17"x17" (43cmx43cm)) 1280x1280 matrix 12 bit (View field: 15"x15" (38cmx38cm)) 1024x1024 matrix 12 bit (View field: 12"x12" (30cmx30cm)) 768x 768 matrix 12 bit (View field: 9"x 9" (23cmx23cm))</p> <p>Serial Acquisition 17"x17": 15fps (1440x1440 matrix 12 bit)</p>		

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	<p>15"x15": 15fps (1280x1280 matrix 12 bit) 12"x12": 15fps (1024x1024 matrix 12 bit) 9"x 9": 15fps (768x 768 matrix 12 bit)</p> <p>Real-Time automatic image optimization Customizable fields for faster exam set-up</p> <p>Fluoroscopy Fluoro Loop(commonly for video swallows):100 frame per run Expanded Edge Enhancement for incredibly sharp images Last Image hold or real-time fluoro store Integration with motion correction Continuous Fluoroscopy at 30fps Pulsed Fluoroscopy at 30/15/7.5/3.75 fps</p> <p>Processing Customizable fields allow exam settings to be pre-programmed to Individual doctor's specifications making for one-click exam setup Auto-image optimization and hardcopy Instant access to all images on line Extensive group of post-processing features for optimal image quality Gamma Selection from 10 kinds of non linear contrast curve Horizontal / Vertical Conversion Recursive Filter Noise Reduction 13 x 13 Template filter processing Edge Enhancement Zoom up to x 2 Multiple Image Display (2x2, 4x4) Annotation for overlay display text and figure Distance Measurement on the image Auto Image Optimization & Hardcopy Background Multi-Tasking hardcopy, Allows simultaneous processing and printing during acquisition Measurement Tools</p> <p>Hardcopy or PACS DICOM 3.0 network interface kit (includes print class, storage class, Modality Worklist class.)</p> <p>ID1000-1 Flat Panel Suspension System Mobile gantry and counterbalanced swing arm with 42 inch sweep radius, 25 inch vertical travel and +180 degree rotation Ceiling rails 8 foot 10 inch Flat Panel array with +180 degree rotation Array includes 1 display panel mounts with +10 degree tilt</p> <p>X-Y rail adapter with 6 foot 8 inch bridge rails</p> <p>9BCu Phantom</p> <p>Area Dose Monitoring System PTW Diamentor M4 System Diamentor circular transparent chamber is mounted to collimator</p> <p>CH-200 Ceiling Tube Suspension (Front Mount) including:</p> <ul style="list-style-type: none"> • 200/(208)/220/230/240V 1 kVA Single-phase incoming line • R-300 (UL) Auto size sensing collimator • Large / Clear LCDDisplay • V/H (Vertical / Horizontal) angle display conversion 		

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	<ul style="list-style-type: none"> • Eight programmable switches for locks (user customizable) • Easy-to-clean surfaces • Positive touch release operation handles for quick positioning • One-button full-way motion release • 3 way lock release, Vertical lock Release and collimator light switches on Rear of Tube Suspension • Spring balanced for easy movement • Reliable locking system allows any angulation to be held in position • Over Table X-Ray Tube; 400 KHU; (12 degree, 0.6 X 1.2 Focal) Vertical Travel – 160 cm (5' 3") <p>Rails</p> <ul style="list-style-type: none"> • Longitudinal rails 5.5 meters (18 ft.) • Longitudinal Travel – 445 cm (14 ft. 7 inch) (436 cm w / Tomo) • Transverse Rails –260 cm (8'6") • Transverse Travel –200 cm (6'7") <p>BR-120 RadSpeed Wall Bucky Stand:</p> <ul style="list-style-type: none"> • Extensive Vertical Travel to accommodate all patient ranges and studies • Vertical travel: from 62.7 cm to 214.7 cm (24.68 to 84.5 inch) • Manual, electromagnetic locking system • Three-Field AEC Sensor System • Standard Aluminum Grid; 10:1, 40 line/cm, 48-72" focal distance <p>CXDI-70C Wireless Digital Radiography Detector for table, stretcher and tabletop work</p> <ul style="list-style-type: none"> - Wireless portable digital detector - 14" x 17" full imaging field - Sensor weight: 7.5 lbs - Sensor size(WxLxT): 384 x 460 x 15 mm ISO4090 cassette compatible - Amorphous Silicon Sensor (a-Si) - CsI scintillator - 125 micron pixel pitch - 9.5 million pixels (2800 x 3408) - 12 bit / 4096 gray scale (14 bits A/D) - IEEE 802.11n Wireless Access point - Equipped 2 batteries, 1 battery charger and power box as standard <p>CXDI-NE Control Software (Graphical User Interface)</p> <ul style="list-style-type: none"> - Canon CXDI-NE software, for panel operation, image processing & enhancement, and image output - Preview image in 3-5 seconds, refresh cycle up to 15 seconds - 19" Touchscreen color LCD with mouse and keyboard - DICOM 3.0 compatible, including Print Management Service Class and Storage Service Class • Ethernet 10/100 Base T <p>Local Console Cart (secondary) allows full operation of unit from the control room and bedside</p>		

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	<p>Grid Cap 70C ; 130 cm, 6:1, 52lpc, AL spacer, Horizontal lines</p> <p>Software allows for Auto Stitching for Scoliosis or Long Leg Imaging</p> <p>4 Days : <i>Applications is not limited to 8-5</i></p> <p>Full set of site specific drawings once PO is issued</p> <p>Shipping to your site, unpack and removal of packing material</p> <p>Interface footswitch to room lights</p> <p>Removal and disposal of existing non working RF room</p> <p style="text-align: center;"><u>Options requested</u></p> <p>Vertical tracking</p> <p>Laser Line Marker Option (R-300)</p> <p>Wall Holder for 70 and Gridcap</p> <p>Storage Rack for table accessories.</p> <p>Overhead Handgrip (BR-120/120T)</p> <p>Sony DVD recorder</p> <p>R-300 (UL) Auto size sensing collimator with auto filtering</p> <p style="text-align: center;">If this room needs to be deinstalled and moved and reinstalled in a new location within the same hospital</p>		

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	<p style="text-align: center;">Options to Consider</p> <p>Digital Subtraction Angiography</p> <ul style="list-style-type: none"> • Real-time-DSA; 7.5 frames per second. • 1024 by 1024 12 bit .5 to 7.5 frames / second. • DSA images displayed immediately after acquisition • Vessel Power (Land Mark) DSA image overlaps background mask. • Road Mapping; Back-peak opacity Fluoro image overlaps & subtracts from live Fluoro image. • Re-registration; Mask image can be shifted on a sub pixel basis to correct subtracted image. • Re-masking; New Mask image can be selected and use to subtract again automatically • 2nd inroom monitor and boom to hold 2 monitors <p>Real-time Smoothed mask (RSM) DSA – requires DSA option above</p> <ul style="list-style-type: none"> • Suppresses halation during lower-limb examinations related to vascular examinations. • Shimadzu High-speed / High resolution DSA • Can be used on moving patients; eliminates need to hold breath. • Reduce Dose and contrast to patient. • Higher success rate in exposure in complex regions. • DSA option required. <p>TomoSynthesis Package</p> <ul style="list-style-type: none"> • Safire Tomo Synthesis Software Package • Magnification Display can be set at 100,110,120,130,150,170 & 200% • At any table tilting angle from 89deg position • Tomo Synthesis Workstation • Acquire up to 30fps, for 5 seconds for a total of 150 frames various sweep angles, time and frames can be achieved <p>Slot Radiography By using Highest Dynamic range, Direct Conversion FDP, Slot Radiography enables to have long-view Radiography in digital for whole chest, whole leg, or spine curvature study</p> <ul style="list-style-type: none"> • Dose Reduction compared with DR • Smooth and whole view including lung through bone by large dynamic range • High Contrast images by reducing scattering x-ray <p>Compression Band (ZS100/BK200)</p> <p>Knee Crutch (1 pair)</p> <p>Myelographic Boots & Myelographic Adapter</p> <p>Center Mount Acrylic Shield 60 x 80cm with cutout Ceiling mounted</p> <p>Kenex Height adjustable over-table x-ray shield roll around</p> <p>Dose Meter includes:</p> <ul style="list-style-type: none"> -DAP Mounting Kit(UL, VAC) -VacuDAP Dose Area Meter VacuDAP2004 		