

V.A. Medical Center

WAREHOUSE, BLDG. 126

4100 WEST THIRD ST.

DAYTON, OH 45428

| MODEL NUMBER<br>AND QUANTITY | DESCRIPTION  |
|------------------------------|--|
| (1)                          | <p><b>SHIMADZU SONIALVISION™ G4 UNIVERSAL RADIOGRAPHIC/FLUOROSCOPIC SYSTEM</b></p> <p>A new premium R/F system that offers completely superior ergonomic design and highest user confidence. 17x17 inch Large FOV and 139 micron pixel size FPD mean leading-edge digital imaging and fine image quality. Various features of dose reduction and dose management provide an important aspect of radiology imaging. The SONIALVISION G4 will make your x-ray room the most productive and efficient by covering a wide range of x-ray examinations both R/F as well as, digital radiography.</p> <p>Features include:</p> <ul style="list-style-type: none"> <li>Ultra high image quality and large field FPD</li> <li>- 17x17 inch 139 micron pixel pitch FPD.</li> <li>Longitudinal Patient Coverage</li> <li>- 79.7 inch (202.5 cm) of longitudinal movement. This is accomplished by imaging chain, not table movement at any table angle</li> <li>- Completely flat Tabletop with no side frames adds to comfort and imaging Multi-functionality to perform a wide variety of procedures</li> <li>- This system has been thoughtfully designed to be ideal for a wide range and variety of examinations, such as orthopedics, general radiography. Barium studies, endoscopy, urology, angiography, pediatrics, and bariatrics.</li> <li>- Urology mode realizes the unique table tilting with fixing the height of ROI and asymmetric collimation feature to keep the imaging field at the very end of tabletop.</li> </ul> <p>Comprehensive Dose Care</p> <ul style="list-style-type: none"> <li>- Grid controlled Pulsed fluoroscopy reduces doses.</li> <li>- Three beam hardening filters are provided as standard to efficiently remove unnecessary soft X-rays that do not contribute to image quality. The optimal BHF is selected to suit the examination automatically to ensure the lowest dose</li> <li>- A new auto filtering collimator R-300 has three kinds of beam hardening filters which cut unnecessary soft x-ray.</li> <li>- G4 has "Dose Eye" collimation which allows the user to Collimate even further to the minimum field by Iris collimation and asymmetric collimation.</li> <li>- On the LIH (Last Image Hold) you can set the collimation for the next fluoroscopy "virtual collimation".</li> <li>- Grid can be removed to lessen dose in pediatrics or exposure to thin body parts.</li> </ul> |

If possible quote for both a table side controlled and console controlled Fluoro systems. If this is an option add to quote as such.

#### TRADE-IN

1. EE33594

Philips Bucky Diagnost Analog

Install date: 11/21/2003

Serial # 03010652

2. EE34366

Philips Easy Diagnost Aleva

Install date: 3/29/2004

Serial # 100171

Add to the Fluoro requirement:

- QA kits
- Dose Reporting
- Reject Analysis
- Wall and/or ceiling mount for the in room live Fluoro monitor
- What is the ceiling height requirement for the overhead tube assembly to reach the floor?

**MAX CIELING HIEGHT THAT WILL ALLOW THE TUBE TO REACH THE FLOOR.**

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| (1)                          | <p>Ergonomic Designed Redesigned Digital Imaging Console</p> <ul style="list-style-type: none"> <li>- New DR-300 has state-of-the-art digital image processing technology and acquires radiography images while <b>keeping</b> original high resolution matrix.</li> <li>- The digital unit has integrated system for examination and image processing</li> <li>- Touch panel console offers essential information which is clearly visible to users making exam execution and completion easier.</li> </ul> <p>SURE Engine Advance</p> <ul style="list-style-type: none"> <li>- Shimadzu Ultimate Real-time Enhancement Engine is ultra fast image processing engine developed by Shimadzu and provides super-high quality images in both static and dynamic imaging modes.</li> <li>- SONIALVISION G4 has an advanced digital imaging filter which contributes to noise reduction by using recursive filters and software driven image outputs to minimize halation and optimize imaging parameters</li> </ul> <p><b>Universal Tilting/Elevating Radiographic / Fluoroscopic table ZS-200 with the following features:</b></p> <ul style="list-style-type: none"> <li>- 90 Degree Vertical to 90 Degree Trendelenburg with continuously variable speed tilt</li> <li>- Soft start and stop inverter drive motors</li> <li>- Maximum tilt speed 90 degrees in 17 seconds</li> <li>- Flat 235 X 76.5 table top</li> <li>- Carbon fiber reinforced plastic (CFRP) table top for low attenuation <ul style="list-style-type: none"> <li>* 0.8 mm of AL eq.</li> </ul> </li> <li>- Longitudinal Imaging chain movement: <ul style="list-style-type: none"> <li>* Longitudinal range of imaging chain: 63.2 inches (160.5 cm)</li> <li>* Tube Arm speed: 5.9inches/sec (15 cm/sec) continuously variable</li> </ul> </li> <li>- Lateral Table to movement: <ul style="list-style-type: none"> <li>* 9.8 inches (25 cm) for peripheral studies</li> <li>* Variable speed,; 2.0 inches/sec (5.0 cm/sec) (max)</li> </ul> </li> <li>- Table top elevation range: <ul style="list-style-type: none"> <li>* 18.5 to 43.3 inches (47 to 110 cm) from floor</li> <li>* Allows maximum flexibility to load patients on and off of table</li> <li>* With 18.5inches (47cm) of table height being the lowest position patients can easily reach the floor for stability and safety</li> </ul> </li> </ul> |

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|                              | <ul style="list-style-type: none"> <li>- All Digital Carriage, without SPOTFILMER. Enables the following:               <ul style="list-style-type: none"> <li>* Improved image quality</li> <li>* X-Ray dose reduction</li> <li>* Enhanced field of view (closer to patient)</li> </ul> </li> <li>- Table Weight: 3,440 lbs. (1,560 kg)</li> <li>- Compact and ergonomic design allows mounting only 4 inches from back wall</li> </ul> <p>Imaging Unit</p> <ul style="list-style-type: none"> <li>- Imaging coverage max 79.7 inches (202.5 cm)</li> <li>- Oblique angle of X-ray tube rotation +40/-40 degrees cranial-caudal and caudal-cranial to table FPD</li> <li>- X-ray tube rotation angle Vertical: Counter clockwise 90 degrees to Off table Gurney, or Trendelenburg: Clockwise 90 degrees</li> <li>- Dedicated inch mover for minor adjustments of imaging unit</li> <li>- The edge of the imaging range can be positioned as close as 3.7 inches (9.5 cm) from the head end of the table.</li> </ul> <p>Collimation</p> <ul style="list-style-type: none"> <li>- Virtual Collimation; Enables to collimation of irradiation field by displaying the collimator position onto fluoroscopic LIH (Last Image Hold) image.</li> <li>- Left and right asymmetrical collimator</li> <li>- Octagonal (Iris) collimator</li> </ul> <p>Additional Beam Hardening</p> <ul style="list-style-type: none"> <li>- 0.1mm Cu</li> <li>- 0.2mm Cu</li> <li>- 0.3mm Cu</li> </ul> <p>Grid</p> <ul style="list-style-type: none"> <li>- Ratio 10:1, Density: N 50 line/cm</li> <li>- Focusing Distance 47.2 inches(120 cm)</li> <li>- Interspace material: AL</li> <li>- Removable Grid</li> </ul> <p>Standard Accessories</p> <ul style="list-style-type: none"> <li>- Footrest</li> <li>- Shoulder rest</li> <li>- Side hand grip, 1 pair</li> <li>- Overhead hand grip</li> <li>- Table Mattress</li> <li>- Footswitch for fluoroscopy and radiography</li> <li>- Intercom</li> <li>- Grid Storage Rack</li> <li>- SMILE Mat with Shimadzu "Global Strings" Design</li> </ul> |

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| (1)                          | <p>Swallowing Examinations</p> <ul style="list-style-type: none"> <li>- Wheelchair or swallow patients can be examined by Extending the imaging chain up to 150cm of SID</li> <li>- Stretcher Applications</li> <li>- The tube head can rotate 90 degrees at vertical position to image patients on the stretcher</li> </ul> <p><b>DR-300 Shimadzu Digital System</b></p> <p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>- Anti-Virus Software</li> <li>- Fluoroscopy 1024 x 1024 matrix</li> <li>- Auto-Calibration, and image quality analysis/measurement software</li> <li>- High speed CPU</li> <li>- Disk drive stores 10,000 images at 1024x1024</li> <li>- Windows 7 operating system with intuitive graphic user interface</li> <li>- PC keyboard and Mouse</li> <li>- DVD-R drive; up to 2,000 images in DICOM Media Storage 1024 x 1024 matrix</li> </ul> <p>Radiography</p> <ul style="list-style-type: none"> <li>- SPOT Acquisition</li> <li>- Serial Acquisition</li> <li>- Multi-frame imaging: 2 or 4 split horizontally/vertically</li> <li>- SUREngine Advance for Radiography</li> <li>* The digital filters suppress the halation and loss of shadow details for SPOT Acquisition images</li> </ul> <p>Fluoroscopy</p> <ul style="list-style-type: none"> <li>- Pulsed Fluoroscopy at 30/15/7.5/3.75 fps</li> <li>- Fluoroscopy Image Storage: Direct store/LIH (Last Image Hold) store/Loop Store, Up to 1,000 frames per run.</li> <li>- Virtual Collimation</li> <li>- SUREngine Advance for Fluoroscopy</li> <li>* Real-time multi frequency processing</li> <li>* Real-time flexible noise reduction</li> </ul> <p>Processing</p> <ul style="list-style-type: none"> <li>- Customizable fields allow exam settings to be pre-programmed to Individual doctor's specifications making for one-click exam setup</li> <li>- Auto-image optimization</li> <li>- Extensive group of post-processing features for optimal image quality</li> <li>* Gamma Selection from 10 kinds of nonlinear contrast curve</li> <li>* Recursive Filter Noise Reduction</li> <li>* 13 x 13 Template filter processing Edge Enhancement</li> <li>- Horizontal / Vertical Inversion</li> </ul> |

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|                              | <ul style="list-style-type: none"> <li>- Zoom up to x 4</li> <li>- Multiple Image Display (2x2, 4x4)</li> <li>- Annotation for overlay display text and figure</li> <li>- Distance &amp; Angle Measurement on the image</li> </ul>  |
|                              | DICOM Communication   |
|                              | <ul style="list-style-type: none"> <li>- DICOM 3.0 network includes <ul style="list-style-type: none"> <li>* DICOM storage class</li> <li>* DICOM MWM (Modality Worklist class.)</li> <li>* DICOM media DVD-R in DICOM format</li> <li>* DICOM print class</li> </ul> </li> </ul> |
| (1)                          | <b>Dicom MPPS</b>   |
| (1)                          | <b>Compression Band for ZS-100</b>  |
| (1)                          | <b>Myelography Support</b>  |
| (1)                          | <b>Knee Crutch (1 pair)</b>   |
| (1)                          | <b>SLOT Radiography Option</b>  |
| (1)                          | <b>Supporting Band for Slot Scanning</b>  |
|                              | <b>X-RAY TUBE</b>   |
|                              | 0.7/1.2 JG326D-265(D), 750kHu   |
|                              | <b>Local Full Operation Console</b>   |
| (1)                          | <b>D150BC-40S, 80kW High Voltage Generator</b> <ul style="list-style-type: none"> <li>- Pulsed Fluoro option</li> <li>- SPT-C42, AEC Phototimer control</li> <li>- SA-61S, High speed starter</li> <li>- H.T.C. 18mt</li> <li>- Transformer</li> </ul>                            |
| (1)                          | <b>UL Power Cable Package A</b><br>(Power Distribution Box & DR in exam room)   |
| (1)                          | <b>Connection Cable Package Layout #1; All 3 cabinets (ZS/UD/DR) in Exam Room</b>   |

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|------------------------------|--|
| (1)                          | <b>Connection Cable Extension Kit: UD Cabinet – DR Cabinet<br/>To 10mt from 2mt</b>  |
| (1)                          | <b>Cable, UD-DR</b>  |
| (1)                          | <b>IBS Cable for evolve</b>  |
| (1)                          | <b>Fan Cable, FPD</b>  |
| (1)                          | <b>Remote Control Console, Desktop Type</b>  |
| (1)                          | <b>ZS-200, RC-U Built in Kit</b>   |
| (1)                          | <b>Sonial G4 FPD (17 x 17 FPD)</b><br>17x17" Flat Panel Imaging Detector<br>Shimadzu Flat Panel Detector Technology System <ul style="list-style-type: none"> <li>- Dynamic Flat Panel Detector</li> <li>- Cesium Iodide (CsI) Scintillator</li> <li>- 139 micrometer pixel technology for sharp diagnostic visualization</li> <li>- DQE 70% +/- 5%</li> <li>- Spatial resolution: 3.6 line/mm (Nyquist)</li> <li>- 17 x 17 inch Full imaging field of view</li> <li>- Acquisition frame rate: Max. 30 fps</li> <li>- High resolution image acquisition with dose reduction</li> <li>- Max 3032x3032 (17"x17") Spot Image Acquisition</li> <li>- Max 3032x3032 (17"x17") Serial image Acquisition at 15 fps</li> <li>- Images obtained as 16 bit data 65,530 graduations</li> <li>- Stored with a digital processing device as 16 bit data without losing any image information</li> <li>- FOV: 17x17" FPD provides the largest imaging area, and 5 selectable FOV (17x17, 15x15, 12x12, 9x9, and 6x6 inch) best in the market</li> <li>- Hygienic smart column</li> <li>- 500 lb. weight option</li> <li>- Foot switch in examination room (For Hands-Free Foot Fluoro/Rad Operation)</li> <li>- Grid rack</li> <li>- DICOM storage</li> <li>- DICOM MWM</li> <li>- Verified Anti-Virus Software</li> </ul> |
| (1)                          | <b>700 Lbs. Weight Feature – Static</b><br>500 Lb. Patient Capacity, All Motions   |

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| (1)                          | <b>SID Detection - Longitudinal Assembly</b>  |
|                              | <b>Vertical Tracking</b>  |
| (1)                          | <b>CH-200 (UL) Ceiling Tube Suspension (Front Mount)</b> <ul style="list-style-type: none"> <li>- Communication Unit B-40/L-40</li> <li>- High Tension Cable 22M</li> <li>- Fixed rail 5.5m for CTM</li> <li>- (4) Beam Assy for GE 56" Unistrut Spacing</li> <li>- (16) Beam Mount (Clead)</li> <li>- (8) Bracket for 2.1 Meter Rail</li> <li>- Traveling rail 3.3m for CTM</li> </ul>     |
| (1)                          | <b>R-300 (UL) Auto Size Sensing Collimator with auto filtering</b>  |
| (1)                          | <b>Laser Line Marker</b>  |
| (1)                          | <b>DAP Mounting Kit (UL, VAC)</b>   |
| (1)                          | <b>VacuDAP Dose Area Meter VacuDAP2004 OEM</b>  |
|                              | <b>X-Ray Tube</b><br><b>0.6 – 1.2, 400kHU Tube, 12 Degree</b>   |
|                              | <b>GSC-2002L Radiographic Console</b>   |
| (1)                          | <b>CH-G4 Connection Kit</b>   |
| (1)                          | <b>BR-120 (UL) Auto Wall Bucky Stand with Removable Grid</b> <ul style="list-style-type: none"> <li>- Interlink Vertical Height Detection Assembly BR-120</li> <li>- FPD Kit Wireless BR120/120T/120M</li> <li>- Wallstand Top Wall Brackets (BR-120/120T/120M</li> <li>- SPT-XD-A3B, 3 pick-up AEC Photo Chamber, 30m cable</li> <li>- Installation of mount kit for Wall Bucky</li> </ul> |

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| (1)                          | <b>Frontal Handgrip</b>   |
| (1)                          | <b>Overhead Handgrip</b>  |
| (1)                          | <b>Dual Monitor Suspension</b><br>Dual Flat Monitor Type, 24" C' Balanced height with Swing Arm for X-Y Transverse Rail   |
| (1)                          | <b>Adapter</b><br>X-Y 6'8" Adapter for Shimadzu CH-200 with 1.1 meter fixed rail spacing  |
| (1)                          | <b>Cable</b><br>4'0" Cable Carrier Kit  |
| (1)                          | Monitor Ext-Box Assy  |
| (1)                          | <b>Height Adjustable Over-Table Shield</b> <ul style="list-style-type: none"> <li>- Height Adjustable counterbalanced shield provides versatile protection</li> <li>- Comines the attributes of ceiling suspended and tableside shields</li> <li>- Ideal where overhead suspension is not possible</li> <li>- Corner cut-out allows shield to extend over the Patient</li> <li>- Sliding flexible curatin reduces scatter at the tableside</li> <li>- 0.5mm Pb protection for upper and lower sections</li> </ul> |
| (1)                          | <b>Sony DVD Recorder</b>  |



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| (1)                          | <p><b>Aero DR 17x17 HQ Professional Package with 17 x 17 Wi-Fi FPD</b></p> <p>Ideal for Enterprise, and all low dose settings, this Aero DR configuration combines our large field 17x17" HQ FPD with our Environ's Pro S/W configuration to deliver the maximum potential for providers to lower dose and increase image quality through a robust enterprise caliber user interface which includes Modality Worklist, Hybrid Premium Processing Algorithms, and Procedure Code Mapping. 17 x 17 accomadates wider field examinations while also improves workflow by reducing the time to reposition the panel in many examinations.</p> <p>The increased thickness of Csl coating on the "HQ" Aero DR panel delivers the highest DQE available for Konica Minolta DR panels allowing for increased x-ray absorption leading to improved visibility and image quality even in reduced dose applications.</p> <p>Includes:</p> <p>Aero DR 17x17 HQ Model Cassette Sized Wireless Digital Flat Panel Detector</p> <ul style="list-style-type: none"> <li>- 210 images per hour</li> <li>- 10 - 17 Second Panel Refresh Time (Cycle Time)</li> <li>- Meets International Specifications for true 14x17 cassette size</li> <li>- Wireless Connectivity Package (includes Access Point)</li> </ul> <p>Aero DR Docking Station</p> <ul style="list-style-type: none"> <li>- Rapid Charge Module</li> <li>- FPD Activation Module</li> <li>- FPD Recovery Module</li> <li>- CS-7 Sync Module</li> </ul> <p>CS-7 Universal Control Station Hardware</p> <p>Minimum Configuration:</p> <ul style="list-style-type: none"> <li>- Intel Core i3-540 processor, 3.06 GHz, CD/DVD RW,</li> <li>- 2GB RAM</li> <li>- Win 7 PRO</li> <li>- 250 GB HDD</li> <li>- Intel PRO/1000 GT Network Connection</li> <li>- 19" LCD with 178 degree Viewing Angle</li> <li>- 1280 x 1024 Native Resolution</li> </ul> <p>CS-7 Universal Control Station Software</p> <p>Features:</p> <ul style="list-style-type: none"> <li>- Environ's Pro S/W Operating Platform for CS-7</li> <li>- Study Append</li> </ul> |

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|                              | <ul style="list-style-type: none"> <li>- Free Text Annotation</li> <li>- Automatic Masking</li> <li>- Study List Filter</li> <li>- History Search</li> <li>- Image Zoom</li> <li>- Grid Suppression</li> <li>- Hybrid Premium Image Processing Algorithm</li> <li>- Equalization, Frequency &amp; Gradation Processing</li> <li>- HIPAA compliance enabling features (Audit trail, Auto log-out)</li> </ul> <p>Also Includes:</p> <ul style="list-style-type: none"> <li>- Image Quality Optimization</li> <li>- DICOM Store(x2 connections)</li> <li>- DICOM Modality Worklist</li> <li>- Procedure Code Mapping</li> <li>- Installation and Applications Training</li> </ul> |
| (1)                          | Aero DR SRM Gen Connection Kit (Bucky cables+Interface box)  |
| (1)                          | D-Link 5-Port 10/100/1000 Desktop Switch   |
| (1)                          | CS7 X-Ray Exchange Connection Pkg  |
| (1)                          | Grid Cap with Single Handle 130cm, 8:1, 215 lpi, AL spacer 17 x 17   |
| (1)                          | CS-7 Data Analysis for other workstations (Additional CS)  |
| (1)                          | POS 14 x 17 FPD Drop Coverage Protection Year 1  |