

V.A. Medical Center

WAREHOUSE, BLDG. 126

4100 WEST THIRD ST.

DAYTON, OH 45428

| MODEL NUMBER AND QUANTITY | DESCRIPTION |
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| (1) | <p>SHIMADZU SONIALVISION™ G4 UNIVERSAL RADIOGRAPHIC/FLUOROSCOPIC SYSTEM</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> <p>Ultra high image quality and large field FPD</p> <ul style="list-style-type: none">- 17x17 inch 139 micron pixel pitch FPD. <p>Longitudinal Patient Coverage</p> <ul style="list-style-type: none">- 79.7 inch (202.5 cm) of longitudinal movement. This is accomplished by imaging chain, not table movement at any table angle- Completely flat Tabletop with no side frames adds to comfort and imaging Multi-functionality to perform a wide variety of procedures- 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.- 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. <p>Comprehensive Dose Care</p> <ul style="list-style-type: none">- Grid controlled Pulsed fluoroscopy reduces doses.- 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- A new auto filtering collimator R-300 has three kinds of beam hardening filters which cut unnecessary soft x-ray.- G4 has "Dose Eye" collimation which allows the user to Collimate even further to the minimum field by Iris collimation and asymmetric collimation.- On the LIH (Last Image Hold) you can set the collimation for the next fluoroscopy "virtual collimation".- Grid can be removed to lessen dose in pediatrics or exposure to thin body parts. |

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

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

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

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

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

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

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

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| (1) | <p>Aero DR 17x17 HQ Professional Package with 17 x 17 Wi-Fi FPD</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"> - 210 images per hour - 10 - 17 Second Panel Refresh Time (Cycle Time) - Meets International Specifications for true 14x17 cassette size - Wireless Connectivity Package (includes Access Point) <p>Aero DR Docking Station</p> <ul style="list-style-type: none"> - Rapid Charge Module - FPD Activation Module - FPD Recovery Module - CS-7 Sync Module <p>CS-7 Universal Control Station Hardware</p> <p>Minimum Configuration:</p> <ul style="list-style-type: none"> - Intel Core i3-540 processor, 3.06 GHz, CD/DVD RW, - 2GB RAM - Win 7 PRO - 250 GB HDD - Intel PRO/1000 GT Network Connection - 19" LCD with 178 degree Viewing Angle - 1280 x 1024 Native Resolution <p>CS-7 Universal Control Station Software</p> <p>Features:</p> <ul style="list-style-type: none"> - Environ's Pro S/W Operating Platform for CS-7 - Study Append |

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| | <ul style="list-style-type: none"> - Free Text Annotation - Automatic Masking - Study List Filter - History Search - Image Zoom - Grid Suppression - Hybrid Premium Image Processing Algorithm - Equalization, Frequency & Gradation Processing - HIPAA compliance enabling features (Audit trail, Auto log-out) <p>Also Includes:</p> <ul style="list-style-type: none"> - Image Quality Optimization - DICOM Store(x2 connections) - DICOM Modality Worklist - Procedure Code Mapping - Installation and Applications Training |
| (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 |