

V.A. Medical Center

WAREHOUSE, BLDG. 126

4100 WEST THIRD ST.

DAYTON, OH 45428

MODEL NUMBER AND QUANTITY	DESCRIPTION
(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> <ul style="list-style-type: none"> Ultra high image quality and large field FPD - 17x17 inch 139 micron pixel pitch FPD. Longitudinal Patient Coverage - 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.

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:

- o QA kits
- o Dose Reporting
- o Reject Analysis
- o Wall and/or ceiling mount for the in room live Fluoro monitor
- o 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.

MODEL NUMBER AND QUANTITY	DESCRIPTION
(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 <p>- Touch panel console offers essential information which is clearly visible to users making exam execution and completion easier.</p> <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
	<p>DICOM Communication</p> <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
	<p>X-RAY TUBE 0.7/1.2 JG326D-265(D), 750kHu</p>
	Local Full Operation Console
(1)	<p>D150BC-40S, 80kW High Voltage Generator</p> <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)	<p>UL Power Cable Package A (Power Distribution Box & DR in exam room)</p>
(1)	<p>Connection Cable Package Layout #1; All 3 cabinets (ZS/UD/DR) in Exam Room</p>

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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)	<p>Sonial G4 FPD (17 x 17 FPD) 17x17" Flat Panel Imaging Detector Shimadzu Flat Panel Detector Technology System</p> <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)	<p>700 Lbs. Weight Feature – Static 500 Lb. Patient Capacity, All Motions</p>

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(1)	SID Detection - Longitudinal Assembly
	Vertical Tracking
(1)	CH-200 (UL) Ceiling Tube Suspension (Front Mount) - 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 (Cleat) - (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 - 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

MODEL NUMBER AND QUANTITY	DESCRIPTION
(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 <p>Aero DR SRM Gen Connection Kit (Bucky cables+Interface box)</p>
(1)	
(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