

WHSE BLDG 297 (WLA) B20035
V.A. Medical Center
VAMC WEST LA
11301 WILSHIRE BLVD
LOS ANGELES, CA 90073
po#: 691-B20035

TRADE-IN INFORMATION:
MANUFACTURER: GENERAL
ELECTRIC
MODEL# ADVANTXTFXII
SERIAL# 443571WKS

Qty

Item Description

1

Ysio 2 detectors fully auto 3m

Universal digital radiographic workplace for skeletal radiography of the recumbent, standing or seated patient. Two high-resolution flat detectors as a basis for a fully digital imaging chain with a digital imaging system, an image and control station with application and evaluation programs and DICOM network connection. Tube assembly support fully automated in all projection-relevant axes with up to 220 cm transverse travel. OPTITOP 150/40/80 X-ray tube assembly and multileaf collimator with full field and laser line light localizer.

1

Software Version VC10

1

wi-D (wireless detector 3543PR)

Mobile, wireless flat detector, with loading and receiving unit for the wireless detector.

1

Snap-on grid for detector

Optional clip-on grid: Grid with clips for attaching to the portable detector.

1

Ysio table for wireless detector

Bucky table in compact design, for X-ray exposures of the entire body.

1

Manual Control Ysio Table

Wired handheld remote to control system functions.

1

Foot Kick Switch Front and Rear

For height adjustment of the patient positioning table and switching of the floating tabletop.

1

Generator R80

High-frequency 80 kW X-ray generator for diagnostic procedures at workplaces with automatic exposure control.

1

Caremax plus HS Integrated

CAREmax measuring chamber for acquisition of the dose-area product.

1

19"Color Flatscreen Display

19" LCD color flatscreen display with high luminance and extended field of view.

1

Bucky Wall Stand #RAD

Floor-mounted Bucky wall stand with height-adjustable and tiltable detector Bucky with flat detector for digital acquisitions. With IONTOMAT three-field chamber and Bucky frame. Detector Bucky operated from the right side. Vertical height adjustment and detector tilt possible from both sides.

Qty	Item Description
1	Pix/Pax FL-C Interface Interface to adapt the FLUOROSPOT Compact to a Ysio system with PIXIUM and PAXSCAN detectors.
1	Manual Control Bucky Wall Unit Wired handheld remote to control system functions.
1	VA Kit Ysio Second set of documentation for Veterans' Affairs Administration Hospitals in the U.S.
1	Transparent grid 15/80, F115 Highly selective anti-scatter grid for scattered radiation reduction: Pb 15/80 (slot ratio 15:1, 80 lines/cm). Grid focussing for SID 45 inches/115 cm.
1	Transparent grid 15/80, F180 Highly selective anti-scatter grid for scattered radiation reduction: Pb 15/80 (slot ratio 15:1, 80 lines/cm). Grid focussing for SID 71 inches/180 cm.
1	DICOM WORKLIST & MPPS Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist) as well as feedback on the examination status with DICOM MPPS (Modality Performed Procedure Step).
1	Security Package The SW option/extension for workplaces enables enhanced security features including user management and audit trail functionality.
1	UPS for image system (YSIO and dRF) Bridging of the imaging system power supply (50/60 Hz) until line voltage is back. The imaging system is automatically shut down during power failures.
1	Standard keyboard English, US Standard keyboard.
1	Compression Belt Belt compression device with a radiolucent plastic belt.
1	Detector Holder, Mobile Trolley with detector holder for lateral acquisitions, independent of the patient positioning table.
1	Customer documentation, English
1	Initial onsite training 32 hrs
1	Offset Initial Training 32 hrs
1	Portable DR Panel Protector
1	Standard Rigging DigRad
1	Additional Rigging/Out of Scope outbound
1	Additional Rigging/Out of Scope Inbound One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.
1	TWO SETS OF SERVICE AND OPERATORS MANUALS

Qty	Item Description
1	Initial onsite training 12 hrs
1	Offset Initial onsite training 12 hrs (\$3,250)
1	Ortho applications package The Ortho applications package consists of a SW license for the Ortho function (orthopedic acquisitions); ability to acquire up to 4 consecutive images of the legs or spine at the Bucky wall stand, and the ability to acquire up to 3 images at the Ysio and up to 4 with Luminos Agile at the patient table. Using the Spine Composing or Ortho Leg Composing software application at the imaging system, these are composed automatically into an overall image.
1	Ortho accessory package The Ortho package comprises an Ortho support, a transparent grid Pb 15/80 (grid ratio 15:1, 80 lines/cm), and a wall holder. Grid focusing for 300 cm.
1	Riverain SoftView Addl. License

Description

System configuration

Ysio is a universal digital radiographic workplace with two flat detectors for image acquisition. Thanks to the flat detectors, no cassettes with film transparency systems or storage phosphor screens are required.

The Ysio digital workplace is especially suited for a high patient load. As a universal workplace, the system is primarily used in X-ray departments of hospitals, in radiological and partly radiological offices with high patient throughput and standardized acquisition technology.

Basic system components:

- A ceiling-mounted, fully motorized, servo-supported tube assembly support with X-ray tube assembly and motorized multileaf collimator.
- An imaging and control station with application and evaluation programs, as well as DICOM system interfaces.
- CD/DVD drive for automatic, digital image storage on CD-R/DVD for offline data exchange in DICOM format.
- A wireless flat detector, 3543PR (see text of the corresponding components).
- A high-frequency X-ray generator with multipulse waveform (see text for the corresponding components).
- A Bucky wall unit with integrated detector (see text for the corresponding components).
- Optionally a height-adjustable patient positioning table with floating tabletop (if offered, see text of the corresponding components).

Tube assembly support

with X-ray tube assembly and motorized collimator.

All projection-relevant tube assembly positions can be adjusted both fully automated and manually (servo-supported) with handles symmetrically mounted to the tube assembly collimator unit.

The ceiling-mounted tube assembly support with automatic positioning and servo tracking, or with servo-support if positioned manually, can be adjusted in 3 axes for longitudinal, transverse, and height adjustment (x, y, and z-axes).

- Horizontal travel range in longitudinal direction 346 cm.
- Horizontal travel range in transverse direction 220 cm.
- Vertical lift 180 cm.

In 2 further axes (α - and β -axes) the tube assembly collimator unit can be set with motorized, automatic adjustment, or with servo-support for manual positioning, for oblique acquisitions of the recumbent patient, or for horizontal, oblique, or lateral acquisitions on the portable detector, or for free bedside acquisitions.

- Rotation around the vertical axis of the ceiling-mounted support from +154° to -182° manually and from +150° to -180° motorized. Lock-in positions every 90°.
- Rotation around the horizontal axis of the tube assembly support arm $\pm 140^\circ$ manually and $\pm 135^\circ$ motorized. Lock-in positions at 0° and $\pm 90^\circ$.

X-ray tube assembly OPTITOP 150/40/80 HC-100:

Single-track dual-focus rotating anode tube with compound anode (rhenium-tungsten, molybdenum, graphite), with high heat storage capacity and high load capacity for small focal spots. Integrated overpressure safety device in the tube protective housing.

- 150 kV nominal voltage acc. to IEC 613.
- Nominal power (focal spot nominal values acc. to IEC 336):
40 kW: small focus 0.6
80 kW: large focus 1.0
- Anode speed $\geq 8,500$ r/min, anode angle 12°.
- Heat storage capacity of the anode 580 kJ (783 KHU) acc. to IEC 613.

Description

- Total filtration (IEC 601-1-3) ≥ 2.5 mm Al equiv.

Multileaf collimator:

With full field and laser line light localizer. Rectangular collimation, manual and motorized, via organ programs.

- Multileaf collimator rotatable by $\pm 45^\circ$ around the center beam axis, e.g. for correct positioning of objects.
- A tape measure is integrated to check the focus-to-object distance.
- To improve radiation quality through dose reduction of the soft radiation parts, Cu filters (0.1Cu; 0.2 Cu and 0.3 Cu) are inserted into the primary beam projection, depending on the organ program selected. They can also be selected manually.

Option:

A measuring chamber for the dose area product can be integrated into the multileaf collimator.

Controls and displays

The control elements at the tube assembly and the multileaf collimator are ergonomically arranged for single-handed operation.

Controls and displays at the tube assembly support (MaxTouch):

Multifunctional control display with color touchscreen for adaptation of acquisition parameters directly in the examination room.

Displays include:

- The collimation size of the acquisition field (in cm x cm).
- The selected SID.
- The selected Cu additional filters.
- Rotation from the 0-position.
- Tube assembly and detector centering.
- Operating states such as "ACSS/Manual", "Ready", "Selected", etc.

The display follows the tube assembly orientation.

The following functions can be set manually at the multileaf collimator:

- Full field light localizer with timer for optical display of the collimated acquisition format and an optionally coverable laser line light localizer.
- The collimation of the acquisition format set last can be retrieved via a memory button.
- The rectangular collimation of the radiation field is pre-defined through the organ program and can be set manually by means of two dials.
- The motorized insertion of the Cu additional filters is controlled via the organ program, but can also be selected freely.

Mobile control units:

- Wireless remote control for steering and positioning the ceiling-mounted support (x-, y-, and z-axes) and the tube assembly collimator unit (α - and β -axes).
- Foot kick bar to adapt the patient table height and operate the floating tabletop.

Imaging and control station

The entire control and communication of the radiography system incl. digital image processing takes place from a central operating site - the imaging and control station.

It includes:

- A high-end PC imaging system, based on Windows XP with *syngo* user interface.
Storage of original data 14 bit.
Storage of image data 12 bit.
Storage capacity approx. 10,000 images.
- Keyboard and mouse.
- One 19" color flat-screen or diagnostic display as control display.
- Manual button for exposure release.

Functions of the imaging and control station

Description

Patient and study administration:

- Importing of patient lists and examinations from the HIS/RIS.
- Manual patient registration.
- Patient, study and image data management.
- Configuration functions.

Acquisition and postprocessing:

- Organ program selection and configuration.
- Selection of generator and diaphragm parameters.
- Parameterization of image preprocessing: enhancement, harmonization, edge enhancement and look-up tables (LUT).
- Display of current acquisition in 5 s max. (preview); complete image 10 s maximum.
- Display of image markings (L/R, a-p/p-a).
- DiamondView Plus: multi-scaling procedure for image post-processing with high detail contrast and reduced noise.

DiamondView is a multi-scale procedure, i.e. filter size and strength are weighted differently and are used for adaptation to the overall image content.

- DiamondView enhances the signal exploitation of the dynamic range and improves the organ-specific detail contrast (soft tissue and bone).
- DiamondView can be selected via the "Pre-processing card".
- By entering "0", the image can be displayed without DiamondView.

Image processing functions:

- Image rotation.
- Horizontal/vertical image mirroring.
- Image zoom.
- Pan.
- Windowing.
- Filters for edge enhancement and noise reduction.

Image documentation and archiving:

- Image transfer into the network.
- Automatic, user-configurable data distribution (DICOM Send, see also system interfaces DICOM).
- Automatic filming with virtual film sheet (DICOM Print, see also system interfaces DICOM).
- Image data export (12 bit) on CD/DVD.

Workflow

The routine workflow is mostly automated, manual operations such as loading and transportation of cassettes are no longer necessary:

- Prior to exposure the patient data is transferred via the patient management system (HIS/RIS: option) or entered through the control console. The exposure parameters are selected through the organ programs.
- Then the patient or the acquisition system is positioned and exposure is released.
- The exposure released at the central system control is read out within a few seconds by the detector. It is displayed at the control display for orientation and made available in DICOM format at the imaging system output for sending e.g. to reporting workstations, image networks, laser cameras, etc.
- Clinical Assurance Program (CAP): Collection of deleted images, studies and patient data, including evaluation capabilities.

Password protection:

System access protected by password.

Option:

Security Package: SW option with enhanced security features such as User Management and Audit Trail function (if offered, see text of the corresponding components).

Description

DICOM system interfaces

- DICOM Send: sending of images into the DICOM network.
The DICOM Send function enables fully automatic transfer of generated image data to a DICOM archive or a DICOM workstation. The user can perform his examinations without interruption while the system fully automatically transfers the images to the archive. This image data transfer takes place entirely in the background and thus does not affect acquisitions performed at the same time.
- DICOM Storage Commitment (StC): feedback from the image archive.
The DICOM StC function automatically gives feedback on whether the generated image data were successfully transferred. This way the user can be sure that the acquisitions stored locally in the imaging system can be deleted.
- DICOM Print: printing of images by means of a virtual filmsheet on a DICOM laser camera.
Selecting "Auto-Print" automatically forwards the images stored in the virtual filmsheet to the laser camera. This optimizes the workflow, eliminating the need for user interaction. In addition, a specific layout can be configured on the virtual filmsheet, which the user can review and edit on the monitor at any time. As a result, printing is only required after the layout has been optimized on the monitor, saving time and costs.

Options:

- DICOM Modality Worklist/MPPS (if offered, see tender further down).
- DICOM Query/Retrieve (if offered, see tender further down).

Note concerning DICOM interface(s)

For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.

The description in the "DICOM Conformance Statement" downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

Functionalities across system borders with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility.

A modification of the interface that might be required is not included in the offer; e.g. for the rare case, that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.

syngo Remote Assist

syngo Remote Assist is a standalone service option.

With *syngo* Remote Assist, Siemens uses a secure broadband VPN connection (VPN = virtual private network) to establish a connection to your Siemens imaging console in order to offer you direct, real-time support and training. This seamless and simultaneous virtual interaction will contribute to improvements in image quality and optimization of system use.

Siemens Remote Service

Prepared for optional Siemens Remote Service SRS™ (during warranty period, subsequently with service contract):

- Hardware and software remote diagnosis.
- System remote configuration, e.g. adding of a DICOM node.
- Early warning system to secure system operation.
- Functions according to the selected maintenance package.

Customer Care. Life - the customer care solution by Siemens Healthcare

From the moment you purchase your Siemens system you will benefit from many services that are offered by Customer Care. Life* offers, e.g.:

- initial application training,
- interactive e-learning for various applications,
- free customer magazines,
- arrangements for clinical training via a global network,
- and free trial licenses

You will find detailed information on our e-learning program and further details on general Customer Care. Life services on the internet.

Description

* Not all services of the Customer Care. Life offerings are necessarily available for all systems.

Components for basic configuration are described in the following.

Mobile, wireless flat detector (wi-D) for image acquisition, 3543pR, CsI scintillator, amorphous silicon (a-Si).

- Detector acquisition matrix approx. 3,000 x 2.364 (7 million pixels).
- Pixel size 144 μm
- Acquisition depth (gray scales) 16 bit.
- Acquisition formats up to 34.0 cm x 43.2 cm (13.4" x 17").
- Data transmission via W-LAN or backup cable.
- Wireless use for approx. 2 hours.
- Detector weight 4.8 kg
- Max. load 135 kg (patient lying down) and 100 kg (patient standing).

Loading and receiving unit for the wireless detector connected to PACS via the imaging system.

Highly selective anti-scatter grid for scattered radiation reduction:
Pb 15/80 (grid ratio 15:1, 80 lines/cm). Grid focussing for SID 115 cm.

Height-adjustable patient positioning table with floating tabletop and detector Bucky for wireless detector 3543pR.

- Free access to table and patient from all sides.
- Patient positioning tabletop 80 cm x 240 cm
- Longitudinal and transverse travel: ± 48 cm and ± 14 cm (± 0.4 cm).
(maximum longitudinal coverage without patient repositioning 196 cm)
- Height adjustment of the tabletop 44 cm: from 51.5 to 95.5 cm (± 0.5 cm).
- Radiation absorption ≤ 0.65 mm Al
- Max. patient weight 300 kg.
- Longitudinal movement of detector tray (from edge to edge) ≥ 100 cm.

Detector tray with highly selective transparent grid for scattered radiation reduction: Pb 15/80 (grid ratio 15:1, 80 lines/cm). Grid focusing for SID 115 cm.

- For pediatric radiography the grid can be removed from the beam projection.

Accessories

Scope of delivery:

- Lateral patient handles: The grips make patient positioning easier, and being able to hold on to the grips gives the patient a feeling of security.
- An adapter for positioning film/screen cassettes and/or image plate systems also designed for use with a flat detector tray.

Wired control unit at the table with the following functions:

- Autopositioning*
- Raise/lower table
- Release longitudinal/transverse travel of tabletop
- Tube parking*

Also a centering button on the detector tray for centering the tube on the detector.*

* Full function only in combination with fully automatic ceiling support

Height adjustment, release, and locking of the floating tabletop is done through a foot kick switch. The foot kick rails are located in the foot area both at the front side and the rear side of the patient positioning table and can be programmed individually at the time of installation. This prevents accidental operation by patients or accompanying persons.

Description

High-frequency X-ray generator with multipulse voltage waveform for diagnostic acquisition procedures at workplaces without FL function. The multi-pulse voltage waveform enables high data accuracy, precise reproducibility and short exposure times.

- Multi-processor system for organ programs.
- Free selection of radiographic parameters.
- Electronic generator monitoring during exposure.
- Tube load computer with acoustic alarm and interval display.
- Integrated automatic exposure control.

Generator control fully integrated in the system console.

Rating:

- 80 kW at 100 kV acc. to IEC 601.
max. 800 mA at 100 kV
- Tube voltage: between 40 kV and 150 kV

Workplaces:

- max. 3 selectable workplaces (Bucky table, Bucky wall stand, and free acquisition).
- One (1) dual focus X-ray tube assembly can be connected.

Power connection:

3 phase current: 380 V, 400 V ($\pm 10\%$); 50/60 Hz.

Electronics unit with KermaX-Plus, a measurement chamber integrated into the collimator housing for acquisition and fluoro systems with POLYDOROS generator for acquisition of dose-area product and/or standardized patient entry dose.

Display of the measured dose-area product and the calculated patient entry dose (CAREwatch) on the flat-screen display, with CAREmax.

The Siemens 19" LCD color flatscreen display features a very high contrast even under very bright ambient light conditions. The Gamma curve was precisely adapted to the CIE/DICOM recommendation and is thus suited especially for gray scale display.

LCD flatscreen display

- 19" (48 cm) screen size
- Resolution: 1,280 x 1,024 (pixel)
- Maximum brightness (typ.): 280 cd/m²
- Flicker-free and distortion-free image display
- Anti-glare screen

The controlled background lighting provides stable lighting throughout the entire product life cycle.

System configuration

The Bucky wall unit is a floor-mounted, stand-alone or wall-mountable grid acquisition system with a height-adjustable and tiltable detector Bucky with Bucky support and an integrated detector as the digital image acquisition system.

It is especially suited for acquisitions of skeletal radiography of the standing and seated patient:

- Orthopedic diagnostics.
- Thorax and general diagnostics.
- Trauma and ER diagnostics.

With this Bucky wall stand, more profound diagnostic requirements for acquisitions of thorax (lungs), abdomen, pelvis, spine, skull and extremities are met.

The basic configuration consists of a radiography system with a vertically positioned and tiltable detector Bucky for horizontal, oblique or lateral patient acquisitions.

Description

The additional tilting range of the detector Bucky extends the diagnostically relevant acquisition projections.

- Vertical height adjustment of the counter-balanced, easily movable detector Bucky from detector center approx. 27 cm to 172 cm above floor: Operation possible from both sides.
- Tilting range between 0° and +90°, and up to -20° continuously around the horizontal axis; lock-in position at 0°. Operation possible from both sides.

Detector Bucky

The detector Bucky with single-handed operation includes a IONTOMAT three-field chamber for automatic exposure control (incl. three-field templates) and a device for symmetric positioning of the flat detector.

- Front plate - detector distance ≤ 45 mm.
- Radiation absorption of the front plate ≤ 0.5 mm Al.
- A stationary, exchangeable transparent grid for scattered radiation reduction; Pb 15/80. Optionally for SID 115 cm and/or 150 cm and/or 180 cm (see tender further down).

Integrated flat detector 43x43

Integrated, fixed flat detector for digital image acquisition, CsI-scintillator, amorphous silicon (a-Si).

- Detector acquisition matrix 3040 x 3040
- Pixel size 139 μ m
- Acquisition depth (gray scales) 14 bit with 8x oversampling.
- Acquisition formats up to 42.2 cm x 42.2 cm.

Accessories

Scope of delivery:

- Lateral patient handles for optimum patient positioning, e.g. during PA thorax exposures.
- Patient overhead handle, swiveling around the horizontal axis, for optimal patient positioning for lateral acquisitions.

Wired control unit at Bucky wall unit with the following functions:

- On/off tube tracking
- On/off light localizer
- Tube parking*
- Tuber centering*
- Autopositioning of tube*

* Full function only in combination with fully automatic ceiling support

DICOM MWL (Modality Worklist):

Import of patient/examination data from an external RIS/HIS patient management system.

DICOM MPPS (Modality Performed Procedure Step):

Sending of dose data, patient data, and examination data to an external RIS/HIS patient management system.

Note concerning DICOM interface(s)

The description in the "DICOM Conformance Statement" downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

Functionalities across system borders with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility.

A modification of the interface that might be required is not included in the offer; e.g. for the rare case, that available configurations are not sufficient.

With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.

This SW license enables the Workplace System to support enhanced user and system management, including:

- user authentication to prohibit unauthorized access
- privileges to define user/role based functionality

Description
<ul style="list-style-type: none"> - permissions to control data access. - audit trails to log system and data access.
<p>Compression is achieved through an easy-to-clean, radiolucent plastic belt by means of a tensioning device with locking.</p> <p>Advantages of compression:</p> <ul style="list-style-type: none"> - Fast and secure fixation of patient to the tabletop. - Reduction of patient thickness, i.e. improvement of image quality through reduction of scattered radiation.
<p>This mobile and height-adjustable holder is designed for use with a mobile, digital flat detector (with or without grid). Alternatively, it can be used for fixating cassettes with film-transparency systems or storage phosphor screens.</p> <p>This mobile holder can be positioned freely in the room or at the patient or positioning table; acquisitions with vertical, horizontal, and oblique beam projections can be made.</p> <ul style="list-style-type: none"> - Clamping size of the holder for detectors 53.5 cm wide and up to 3.3 cm thick. - Clamping size for cassette formats between 24 cm and 55 cm wide. - Height adjustment from the lower edge of the detector holder up to 2 cm to 120 cm above the floor. - Height adjustment counterbalanced at a total weight of approx. 6.7 kg.
<p>Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.</p>
<p>The unique design of the DR Panel Protector provides an easy way to take weight-bearing x-rays of feet (AP view). The unit is simply placed over the DR panel which is first positioned on the floor. Patients step onto the DR Panel Protector with as much weight as needed to get the desired image. The face plate is made of polycarbonate designed to support patients weighing up to 500 pounds. The face plate is x-ray lucent, allowing the x-rays to pass through the DR Panel Protector with no significant absorption or scattering. The non-slip rubber floor grips keep the DR Panel Protector from slipping on a hard floor. The Panel Protector frame is notched to accommodate the cable connection from the digital DR panel to the host system. One year warranty through Clear Image Devices.</p>
<p>Up to (12) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.</p>
<p>SW license for Ortho function</p> <p>Ability to acquire up to 4 consecutive images of the legs or spine at the Bucky wall stand, and the ability to acquire up to 3 images at the Ysio and up to 4 with Luminos Agile at the patient table. Using the Spine Composing or Ortho Leg Composing software application at the imaging system, these are composed automatically into an overall image.</p> <p>Acquisitions at the Bucky wall stand should use a source-image distance (SID) of 300 cm. If 300 cm is not possible, reduce the source-image distance (SID) to 180 cm.</p> <p>Acquisitions at the patient table should use a source-image distance (SID) of 150 cm. If 150 cm is not possible, reduce the source-image distance (SID) to 115 cm.</p> <p>The Ortho package (ortho support and grid Pb 15/80, 300 cm grid focusing) has to be ordered separately.</p>

Description

The use of an 80kW generator is recommended for acquisitions of the lateral spine.

Spine Composing

Spine Composing takes individually acquired digital radiographic images of the spine and composes them into an overall image.

The main functions are:

- automatic composing of digital radiographies into an overall image.
- standard image post-processing functions are available.

Ortho-Leg Composing

Ortho-Leg Composing takes individually acquired digital radiographic images of the legs and composes them into an overall image.

The main functions are:

- automatic composing of digital radiographies into an overall image.
- standard image post-processing functions are available.

Scope of Work

The following Scope of Work detailed in DCS Proposal No.12-54-1186 dated May 22, 2012 defines the construction to facilitate the installation of a Siemens Medical Solutions Axiom Luminos Agile RF System located in Room 1645 at VA West LA Sepulveda, 11301 Wilshire Boulevard, Los Angeles, CA 90073 and is based Siemens typical equipment drawing #11028 dated November 4, 2011 and on a site visit.

Scope of work includes the renovation of an existing X-Ray room for the installation of a new Agile RF system. New finishes shall include flooring and paint. The existing walls and Unistrut will remain “as-is”. The Scope further includes the upgrading of the power for new equipment.

- Note: the area around the Rad Room has serious floor issues, which appear to be caused by a moisture problem. This issue has not been addressed in this proposal and will need further investigation to determine the cause.

Division 0: Special Sections

Architectural and Engineering Design

- Provide a full set of design drawings showing scope of work, equipment layout and elevations. Include all required engineering including electrical, mechanical and structural.
- Furnish physicist report for verification of required lead shielding. Post inspection is by VA.
- Permit fees are excluded.
- Furnish as required all blueprinting, postage, travel expenses, office supplies, parking costs as required by the project scope of work.
- Maintain “as-built” construction drawings including red lined field changes.

Preliminary Design and Construction Duration

- Design - 2 weeks from equipment finals completion
- Drawing Approval - 2-3 weeks (estimated)
- Construction - 4 weeks

Division 1: General Requirements

- The summary of work includes all general trade work, mechanical work, and project management needed for the renovation of the medical equipment suite.
- Provide full time construction superintendent.
- A project manager will be assigned to the project to provide all technical, financial and scheduling information as required for the duration of the project. Weekly on site meetings and weekly status reports are included.
- Provide general liability insurance. Builders’ All-Risk insurance is excluded.
- Provide transportation, handling, storage and protection for all contractor provided construction materials and equipment.

Division 1: General Requirements (continued)

- All construction is to be performed in one phase during normal working hours. Off hours premium time is included for noise abatement and utility shutdowns only. Weekend work or overtime is excluded.
- Any item(s) to be salvaged by the owner are to be removed by the owner from the site before construction begins.
- The owner is to provide clear, unrestricted access from the loading dock to the construction site.
- The use of owner's facilities and utilities shall be permitted during construction. These utilities shall include use of 120V power.
- Provide for daily broom cleaning of the job site and debris removal and appropriate disposal.
- Provide dumpsters for disposal of construction debris and materials.
- Final construction cleaning is included. Final terminal cleaning or waxing of floors is excluded.
- Infectious control standards shall comply with owner's standards.
- Furnish labor and equipment for infection control including negative air filtration units, tacky mats, walk off mats, Visqueen and other items as required.
- Provide all barricades, dust barriers and temporary fencing around the project as required for the completion of the project.
- Comply with utility interruption policies.
- Comply with orientation and clearance programs.
- Comply with OSHA requirements.
- Maintain an up to date copy of construction documents with redlined as built conditions.
- Performance and payment bonds are included.
- Close out documents will be presented at project completion upon receipt of owner signed substantial completion form, inclusive of as-built drawings, warranties, products and manuals, photos, reports and other pertinent project information.
- Provide and coordinate all testing and inspection requirements in accordance with VA regulations.
- All warranty claims for the Project will be directed to the contractor awarded the work for the Project. Siemens offers no specific warranties for work performed other than specific warranties agreed to by the contractor and subcontractors who perform the work, and warranties with respect to the Medical Equipment manufactured by Siemens. Siemens agrees to provide the Client with names and telephone number of contact person for all such claims. Standard manufacture warranty is one year on workmanship and materials.

Division 2: Site Work

- Furnish labor and equipment to remove existing VCT flooring and base in exam room and control area.
- Furnish labor and equipment to spot demo areas required for conduits, boxes or backing.
- Furnish labor and equipment to remove the existing framed column on side wall including gutter.
- Include saw cutting and removal of existing concrete for gutter duct where required.
- Removal of Existing X-Ray equipment is not included in this proposal.

Division 3: Concrete

- Furnish labor and material to fill in gutter not being used with concrete.

Division 4: Masonry NA**Division 5: Metals**

- Include miscellaneous metal for anchorage of medical equipment in accordance with manufacturer's and Structural engineer's specifications.
- Include 16 gauge flat strap backing for equipment cabinets where required.
- Metal Specialties: Existing Unistrut to remain. Include additional required seismic bracing per code.
- Seismic anchoring is included.
- Structural metals other than those specifically stated in this proposal are excluded.

Division 6: Wood and Plastics

- Modifications to existing (if any) or additional millwork are excluded.
- Existing casework is to remain.
- Include general carpentry labor for miscellaneous work as required.

Division 7: Thermal and Moisture Protection NA**Division 8: Doors, Frames, Hardware and Windows**

- Existing doors to remain "as-is".

Division 9: Finishes

- All interior partitions / fur walls within the project area including existing walls shall be filled, taped, sanded and prepared for a smooth wall finish, ready to receive paint.
- Include drywall to patch and repair ceiling as required where affected by our work.
- Furnish and install new flooring as follows:
 - Exam room and Control room to receive new Armstrong VCT with 4" rubber topset base.
 - Include moisture barrier prior to laying floor.
- Furnish low gloss enamel paint finish consisting of one prime coat and two finish coats of specified paint at all walls in the project area. Paint specification shall be Dunn-Edwards or equal in a color selected from the manufacturer's standard samples.
 - Wall coverings are excluded.
- Suspended Ceilings: Existing ceiling to remain.

Division 10: Specialties

- Signage: Signage to remain. Any new signage is the responsibility of the VA.

Division 11: Equipment NA**Division 12: Furnishings** NA

Division 13: Special Construction

- This proposal is based on the understanding that remaining existing doors, door frames, walls or viewing window(s) currently have adequate radiation protection.
- Furnish physicist report for verification of required lead shielding. Post inspection is by VA.
- Lead Protection: All existing lead disturbed by our work shall be repaired to original condition.
- Existing lead door to remain “as-is”.
- Existing lead window to remain “as-is”.
- Additional lead shielding is excluded.

Division 14: Conveying Systems NA**Division 21: Fire Suppression**

- Work associated with fire systems is excluded.
- Fire sprinklers to remain “as-is” (side discharge).

Division 22: Plumbing

- Work associated with plumbing is excluded; existing to remain “as-is”.
- Work associated with Medical Gases is excluded.

Division 23: Heat, Ventilating, and Air Conditioning

- Existing HVAC serving the room is assumed adequate for new equipment per job walk / RFQ.
 - Utilize the existing HVAC as is.
- New A/C units or repairs to existing are excluded.
- Include air balance upon completion of work.
- Modifications, additions, servicing, repairs or warranty of existing HVAC systems except for those specifically stated in this proposal are excluded.
- Work associated with existing energy management controls (if any) is excluded.

Division 26: Electrical

- The room is currently fed with a 110 AMP disconnect. Existing CB will be changed to 100 AMP.
 - Location of main disconnect to remain.
- Provide and install all electrical conduits, surface mounted raceways, ladder tray and surface gutter per equipment specifications.
 - Existing gutter will be re-used where possible.
- Include removal of existing overhead gutter.
- Install "emergency power off" push buttons with related conduit and wire to shunt trip circuit breakers in accordance with Siemens requirements.
- Furnish labor and material to safe off and remove all existing electrical work not required by the new equipment.
- Include relocating light fixtures based on new rail layout.

Division 26: Electrical (continued)

- Electrical outlets and Data outlets are existing.
- Additional dedicated circuits and outlets not shown on the plans are excluded.
- An in depth analysis of the quality, capacity or availability of existing building power and grounding, is excluded.
- Existing building power or grounding upgrade is excluded.
- The remaining existing lighting, switching, dimming, convenience outlets, etc. are deemed to be adequate and will be left in their present location and current condition.
- Work associated with installing power conditioning or surge suppression equipment is excluded.

Division 27: Communications

- Work associated with network, telephone, intercom, nurse call, code blue, PA or CCTV systems is excluded.

Division 28: Electronic Safety and Security

- Work associated with security or alarm systems is excluded.
- Existing fire detection and alarm to remain.

Division 31: Earthwork NA

Division 32: Exterior Improvements NA

Division 33: Utilities NA

Division 34: Transportation NA

Exclusions:

The following items are specifically excluded from our Proposal:

- Work in an environment where there is possible contamination by the presence, removal, or encapsulation of hazardous material(s).
- Mold, asbestos or hazardous material survey(s), removal or abatement of any kind.
- Work associated with the removal or relocation of concealed or hidden installations and/or any effects to the project schedule.
- Upgrades associated with ADA or code requirements (if any) outside this construction area are excluded.
- Any other item(s) not specifically mentioned or otherwise included in this Proposal.