

VA MEDICAL CENTER B50101
V. A. Medical Center
RECEIVING WAREHOUSE
135 EAST 38TH STREET
ERIE, PA 16504

P. O. # 562-B50101

Qty	Item Description
1	Ysio Max
1	Ysio Max Ceiling Carriage 3 m Universal digital radiographic workplace for skeletal radiography of the recumbent, standing or seated patient. High-resolution, permanently installed or wireless 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 motorized 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	Ceiling rails 4.25m 2 tracks for the ceiling-mounted support with a travel distance up to a maximum of 4.25 meters in longitudinal direction
1	MAX wi-D Mobile, wireless detector with handgrip.
1	MAX wi-D Clip-on Grid 5/85 F115 Grid (5/85), f 115 cm Highly selective anti-scatter grid for scattered radiation reduction:- Pb 5/85 (grid ratio 5:1, 85 lines/cm)- Grid focusing for SID 115 cm (45")
1	Bucky Wall Unit with MAX static Floor-mounted Bucky wall stand with height-adjustable and tiltable detector tray with a MAX static 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.
1	Ysio Table for MAX wi-D Bucky table in compact design, for X-ray exposures of the entire body with detector tray for MAX wi-D.
1	Foot Kick Switch Front For height adjustment of the patient positioning table and switching of the floating tabletop.
1	Int. charg. Unit MAX wi-D (cradle) Charger unit for charging the MAX wi-D rechargeable battery when the detector is in the charging cradle (table or BWS).
1	WLAN US WLAN access point for operating the MAX wi-D or MAX mini detectors Important: USA only

Qty	Item Description
1	Configuration 2 Detector System Quantity of 2 configured MAX detectors
1	Polydoros 80 kW High-frequency 80 kW X-ray generator for diagnostic procedures at workplaces with automatic exposure control.
1	Caremax plus HS Integrated CAREMAX plus Dose Area Product (DAP) meter tracks and displays the Dose Area Product (DAP) and/or standardized patient entrance dose and is connected to the collimator via CAREMAX adapter cable. The Dose Area Product (DAP) is being displayed on the FLC image system and recorded in the exam protocol.
1	19" monochrome flatscreen display One monochrome 19" flatscreen display with blue background color.
1	Transparent grid 13/92, Universal Highly selective anti-scatter grid for scattered radiation reduction: - Pb 13/92 (grid ratio 13:1, 92 lines/cm) - Grid focusing 140 cm (55") - Working range (SID) 115 cm to 180 cm (45" to 71") Recommended for use in the table and Bucky wall stand. Improved workflow due to fewer grid changes.
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	VA Kit Second set of documentation for Veterans' Affairs Administration Hospitals in the U.S.
1	Keyboard, US English PS2 standard keyboard
1	Initial onsite training 24 hrs Up to 24 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.
1	Initial onsite training 12 hrs 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.
1	Offset onsite Training 24 hrs
1	Offset onsite Training 12 hrs
1	Ysio 2DA Max Configuration

Qty	Part No.	Item Description
1	CID4948	<p>Portable DR Panel Protector(14x17)</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>
1	AXD_RIG_DIG RAD_GOV	<p>Standard Rigging DigRad</p>

One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.

OPTIONS

OPTIONS**Qty****Item Description**

1

Integrated Electrical Cabinet for X-Ray

NOT approved for OSHPD facilities.Components Supplied:The IEC Main Disconnect PanelThis Installation, Operations & Service Manual(2) sets of Emergency Power Off pushbuttonsDrawings and Electrical SchematicsDOES NOT INCLUDE installation. Customer is responsible for the installation of the cabinet. Includes one year warranty.This panel incorporates several features desirable for system installations to minimize down time, protect the X-Ray Generator electronics, and to reduce operational delays after a power outage. The panel has a main circuit breaker, Q1, provides fully integrated "X-Ray ON" warning light control and a relay to reduce the room lighting during the procedure. When the main circuit breaker is turned off, all power circuits within the panel will be de-energized.

1

Charger f. MAX wi-D and MAX mini

This charger can be used to charge the replacement batteries for the MAX mini and MAX wi-D detectors. Note: The MAX mini battery can only be charged with this charger. Space for 3 batteries, with LED indicator for charge status. The charger connects to a wall socket using a power cord. This price book item includes the following components: - 1x battery charger - 1x power supply - 1x battery

Description

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.
- Current detector angle (MaxAlign feature) – to eliminate the need to guess the tube angle and to protect the patient by reducing repeat exposures. Available with MAX wi-D and MAX mini.

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.

Imaging and control station (syngo FLC)

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 7 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 as control display or diagnostic display.
- Manual button for exposure release.

Functions of the imaging and control station

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

Description

tables (LUT)

- Display of current acquisition between 1.5 and 3.5 seconds (preview); complete image in 3.5 to 6 seconds max. depending on detector type
- Display of image markers (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 to 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

Routine workflows are largely automated.

- 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).

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.

Description

- **DICOM Print:** Printing of images by means of a virtual film sheet 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
- DICOM Query/Retrieve

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.

* "Customer Care. Life" offerings are not necessarily available to the full extent for all systems.

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

- Detector acquisition matrix approx. 2872 x 2354
- Pixel size 148 µm
- Acquisition depth (gray scales) 16 bit.
- Acquisition formats up to 34.9 cm x 42.5 cm (13.7" x 17").
- Thickness: 19 mm
- Data transfer via W-LAN.

Description

Operation time:

- At least 525 images
- Min. 3.5 hours under normal load
- Min. 6 hours in standby mode
- Detector weight 3 kg
- Max. load 150 kg (patient lying down) and 100 kg (patient standing).

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 tray with tray support and an integrated MAX static flat 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.

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 an 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 13/92. Optionally for SID 115 cm and/or 180 cm, or Universal Grid with a field from 115 to 180 cm (see tender further down).

Integrated MAX static 43 x 43 flat detector

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

- Detector acquisition matrix: 2869 x 2874
- Pixel size: 148 μ m
- Acquisition depth (gray scales): 16 bit
- Acquisition formats: up to 42.5 cm x 42.5 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.

Height-adjustable patient positioning table with floating tabletop and detector Bucky for wireless MAX wi-D detector.

Ysio Max table:

- 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).

Description

- (maximum longitudinal coverage without patient repositioning 190 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.

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.

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 at the front 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.

Charger unit for charging the MAX wi-D rechargeable battery when the detector is in the charging cradle (table or BWS). The charger unit is required if a MAX wi-D cradle was selected for the table or BWS. Also required for the configuration of the wi-D charging cradle on the table or BWS.

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.

Flat display in monochrome TFT technology with high luminance and extended viewing angle (diagnostic display category A according to DIN 6868-57).

- Screen size 19" (48 cm).
- Resolution: 1280 x 1024 (pixels).
- Maximum brightness (typ.): 400 cd/m².
- Flicker-free and distortion-free image display.
- Ambient light sensor for optimum adaptation of the image display to the room brightness.

DICOM MWL (Modality Worklist):

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

Description

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.

Q1 provides the disconnect means and lock-out and tag-out (LOTO) the X-Ray Generator power circuit for maintenance purposes. The K2 contactor will open with any loss of power or by pressing any Emergency Power Off (EPO) pushbutton. The contactor control circuit is factory configured to automatically re-energize the X-Ray Generator upon restoration of facilities power. The control circuit may be re-configured to require the operator to manually restart the equipment once the incoming power has been restored. This protects the sensitive electronic circuits of the X-Ray Generator from sags and surges that immediately follow power loss from blackouts, storms, utility reclosure operations, and out of phase automatic transfer switch operations.

The control circuits for the EPOs are low voltage 24 VDC and are fully powered from within the panel. The restart functionality and EPO circuitry is controlled with a safety relay, K10. See page 10 for detail.

The white SAFETIES OK indicator light on the front of the panel is illuminated when none of the EPOs are pressed. When the white light is active, pressing the green START pushbutton will cause the XRay Generator to be energized. The green START button will illuminate, and the white SAFETIES OK light will go off. Pressing the STOP button will de-energize the system. Any EPO pressed while the system is energized will result in the immediate de-energizing of the X-Ray Generator system.

If an EPO is pressed at any time, the EPO must be reset which will cause the SAFETIES OK light to activate. Then the START button will activate the X-Ray system.

IMPORTANT:

If building power is removed from the panel while the X-Ray system is energized, the power to the XRay system will be restored when building power returns without any human interaction. The X-Ray system can then be restarted normally.

Additional provisions are made to integrate the "X-Ray ON" warning lights and room lighting with the XRay Equipment. The facility lighting panel provides 120- or 277-volt power that is controlled by contacts relays of K4 and K5 mounted in the IEC. The signal controlling the relays comes directly from the Siemens Generator/Power Cabinet. The relays will operate at 24 Volts AC or DC.

Panel Dimensions: 30 in x 20 in x 7.6 in (H x W x D)

Weight: 67 pounds