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V.A. Medical Center  
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Qty	Item Description
1	<b>Ysio Max</b>
1	<b>Ysio Max Aim FAST Ceiling Carr. 3m</b> Aim FAST option with fully automated ceiling stand for aut positioning of the acquisition position with up to 220 cm transverse travel.
1	<b>Ceiling rails 4.25m</b> 2 tracks for the ceiling-mounted support with a travel distance up to a maximum of 4.25 meters in longitudinal direction
1	<b>MAX wi-D</b> Mobile, wireless detector with handgrip.
1	<b>MAX wi-D Clip-on Grid 5/85 F115</b> 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	<b>Bucky Wall Unit with MAX static</b> 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	<b>Manual Control Bucky Wall Unit</b> Wired hand-held remote to control system functions.
1	<b>Ysio Table for MAX wi-D</b> Bucky table in compact design, for X-ray exposures of the entire body with detector tray for MAX wi-D.
1	<b>Manual Control Ysio Table</b> Wired hand-held remote to control system functions.
1	<b>Tabletop recognition</b> Tabletop recognition enables the position of the tabletop to be taken into account for collision monitoring. This prevents the system from travelling at a slower speed during follow-up movement if the tube is near the table. Note: Standard for Aim FAST option
1	<b>Foot Kick Switch Front and Rear</b> For height adjustment of the patient positioning table and switching of the floating tabletop.

Qty	Item Description
1	<p><b>Int. charg. Unit MAX wi-D (cradle)</b> Charger unit for charging the MAX wi-D rechargeable battery when the detector is in the charging cradle (table or BWS).</p>
1	<p><b>WLAN US</b> WLAN access point for operating the MAX wi-D or MAX mini detectors Important: USA only</p>
1	<p><b>Configuration 2 Detector System</b> Quantity of 2 configured MAX detectors</p>
1	<p><b>High desk fixed height</b> Computer pedestal for positioning the image and control station, with a working height of 100 cm/39.4 in (<math>\pm 0.5</math> cm/<math>\pm 0.2</math> in) and a desktop working area of 80 cm x 90 cm.</p>
1	<p><b>Polydoros 80 kW</b> High-frequency 80 kW X-ray generator for diagnostic procedures at workplaces with automatic exposure control.</p>
1	<p><b>Caremax plus HS Integrated</b> 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.</p>
1	<p><b>19" Color Flatscreen Display</b> 19" LCD color flatscreen display with high luminance and extended field of view.</p>
1	<p><b>Transparent grid 15/80, F115</b> Highly selective anti-scatter grid for scattered radiation reduction: - Pb 15/80 (grid ratio 15:1, 80 lines/cm) - Grid focusing for source-image distance (SID) of 115 cm (45") Required for pediatric examinations in some countries. Please check country regulations. Note: Depending on the country, a grid with a 15:1 grid ratio has to be used for pediatric examinations. In this case, use the wi-D detector in portrait format.</p>
1	<p><b>Transparent grid 15/80, F180</b> Highly selective anti-scatter grid for scattered radiation reduction: - Pb 15/80 (grid ratio 15:1, 80 lines/cm) - Grid focusing for source-image distance (SID) of 180 cm (71") Recommended for use in the Bucky wall stand if the fixed detector was configured. Required for pediatric examinations in some countries. Please check country regulations. Note: Depending on the country, a grid with a 15:1 grid ratio has to be used for pediatric examinations. In this case, use the wi-D detector in portrait format.</p>
1	<p><b>SmartOrtho License</b> SmartOrtho consists of a SW license for the Ortho function that enables the following 2 orthopedic acquisition methods: Ability to acquire up to 4 images of the legs or spine in sequence on the Bucky wall stand with the Luminos Agile Max, Luminos dRF Max, and Ysio Max. For Luminos Agile Max and Luminos dRF Max, this function requires a Bucky wall stand, a ceiling stand, and a MAX wi-D. For Ysio, the Bucky wall stand can work with a MAX wi-D or a MAX static detector. Ability to acquire up to 4 images with Luminos Agile Max, Luminos dRF Max, and Ysio Max at the patient table. The Spine Composing or Ortho Leg Composing software applications on the imaging system assemble these automatically into a single image.</p>
1	<p><b>Ortho Stand</b> Combine up to 4 consecutive leg or spine exposures in a composite image at the syngo FLC. For lateral spine exposures we recommend using an 80 kW generator. Consists of Ortho support. Smaller footprint (recommended for existing Ortho support users). - Dimensions (D x W x H): 75 cm x 75 cm x 202 cm (30" x 30" x 80") - Weight: 85 kg (187 lbs) - Max. patient weight capacity: 180 kg (396 lbs) - Patient body length: up to 190 cm (75") standing Note: The syngo FLC is not included in this package.</p>

Qty	Item Description
1	<p><b>Laser light localizer</b></p> <p>Additional laser light localizer shifted by 90° compared to the standard laser light localizer included in the delivery volume. For targeting setting of the acquisition projection and patient positioning without radiation, e.g., setting at a trauma patient table in longitudinal direction.</p>
1	<p><b>DICOM WORKLIST &amp; MPPS</b></p> <p>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).</p>
1	<p><b>DICOM QUERY RETRIEVE - C</b></p> <p>Retrieval of archived images (DICOM Query/Retrieve - Service as SCU) from a digital archive or a workstation. The images must have a DICOM XRF (X-Ray Radiofluoroscopy)/XA (X-Ray Angiography), CR (Computed Radiography), or SC (Secondary Capture) format, and must be generated by the FLUOROSPOT Compact.</p>
1	<p><b>VA Kit</b></p> <p>Second set of documentation for Veterans' Affairs Administration Hospitals in the U.S.</p>
1	<p><b>Keyboard, US English</b></p> <p>PS2 standard keyboard</p>
1	<p><b>Initial onsite training 24 hrs</b></p> <p>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.</p>
1	<p><b>Initial onsite training 12 hrs</b></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>
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1	<p><b>Offset onsite Training 24 hrs</b></p>
2	<p><b>Offset onsite Training 12 hrs</b></p>
1	<p><b>Ysio 2DA Max Configuration</b></p>

**Qty**

**Item Description**

1

**Portable DR Panel Protector(14x17)**

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

1

**Standard Rigging DigRad**

# Detailed Technical Specifications

## Description

Aim FAST is Ysio Max's unique positioning system, with free, simultaneous movement of up to 6 axes. Aim FAST provides fast, short and certain movement to the acquisition position due to its high performance drives. Up to 1000 user-defined system positions can be stored using the organ programs. Wireless remote control with the SmartMove button for system positioning. Service configurable objects in the room that can be detoured around during positioning. Service configurable servo assisted ceiling stand movement in X, Y and Z axes. Automatic tube centering function on the detector tray in the table and Bucky wall stand. Cable routing to the stand in the energy chain, for free access to the patient.

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  $\mu$ m
  - 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.
- 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  $\leq$ 45 mm.
- Radiation absorption of the front plate  $\leq$ 0.5 mm Al.

## Description

- 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 µm
- 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.

### **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 the option Aim FAST

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:  $\pm 48$  cm and  $\pm 14$  cm ( $\pm 0.4$  cm).  
(maximum longitudinal coverage without patient repositioning 190 cm)
- Height adjustment of the tabletop 44 cm: from 51.5 to 95.5 cm ( $\pm 0.5$  cm).
- Radiation absorption  $\leq 0.65$  mm Al
- Max. patient weight 300 kg.
- Longitudinal movement of detector tray (from edge to edge)  $\geq 100$  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.

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 available in combination with the Aim FAST option

## Description

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.

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.

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/m<sup>2</sup>
- Flicker-free and distortion-free image display
- Anti-glare screen

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

### SW license for Ortho function

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 Max and up to 4 with Luminos Agile Max at the patient table. The Spine Composing or Ortho Leg Composing software applications on the imaging system assemble these automatically into a single image.

Acquisitions made at the Bucky wall stand should use an SID of 300 cm. If 300 cm is not possible, reduce the SID to 180 cm.

Acquisitions made at the patient table should use an SID of 150 cm. If 150 cm is not possible, reduce the SID to 115 cm.

## Description

The Ortho package (ortho support and grid Pb 15/80, 300 cm grid focusing) has to be ordered separately.

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 radiographs 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 radiographs into an overall image.
- standard image post-processing functions are available.

### 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.

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