

REQUISITION: 526-B80242  
REQUESTING SERVICE: IMAGING DEPARTMENT  
SHIP TO: BUS. PROGRS. & OPERS  
V.A. Medical Center  
MMS (WAREHOUSE) 90D  
130 W KINGSBRIDGE RD  
BRONX, NY 10468

---

---

**Qty**

**Item Description**

1

**Luminos dRF Max**

Luminos dRF Max is a fully integrated 2-in-1 remote-control system that maximizes the utilization and productivity of your examination room. A lifting and tilting table with low minimum table height, a 4-axes movable tabletop, intuitive controls and the innovative SmartTouch joysticks of Luminos dRF Max make every exam safer and faster. Its space-saving and open table design improves access to the patient and allows a more efficient use of room space.

The large 43 cm x 43 cm MAX dynamic flat detector ensures excellent coverage for both radiography and fluoroscopy imaging and provides high-resolution images for more accuracy and efficiency.

The syngo FLC digital one-stop workflow from patient registration to image documentation offers fast and easy operation for consistent exam settings and a consistent image impression\*.

Following items are included in the standard delivery:

- Optitop tube
- 65 kW generator
- Display for live image in the control room
- Keyboard/Mouse
- Table tilt + 90°/- 45°
- Storage capacity: 2.000 RAD images / 50.000 DFR images
- DICOM Send and Print
- Diamond View Plus
- Harmonization (DDO)
- CD / DVD recorder
- Carevision

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

1

**Compression device**

The remote-controlled compression device is used for local compression of body parts (especially the abdomen) during examination. In and out movement is motorized.

Qty	Item Description
1	<b>MAX wi-D</b>
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>WLAN</b> WLAN functionality to connect MAX wireless detectors to the system.
1	<b>Transparent grid 13/92, Universal</b> Highly selective anti-scatter grid for scattered radiation reduction.
1	<b>80 kW Upgrade</b> An upgrade of the high-frequency X-ray generator from 65 kW to 80 kW power, to improve performance and expand the spectrum of possible applications.
1	<b>Ysio Max Option</b> The Ysio Max option adds full radiographic versatility to the system especially enabling cross table examinations and high-throughput radiography workflow.  Ysio Max is a universal digital radiographic workplace for skeletal radiography of the recumbent, standing or seated patient. It is seamlessly integrated into the control of the system. One or more portable flat detectors can be integrated, depending on the configuration, for a fully digital imaging chain.
1	<b>Laser light localizer</b> Additional laser line light localizer to form a 90° laser light cross for improved target setting and patient positioning.
1	<b>DAP meter CAREmax 2nd plane</b> CAREMAX Dose Area Product (DAP) meter tracks and displays the Dose Area Product (DAP) and/or standardized patient entrance dose.
1	<b>Bucky wall stand</b> Floor-mounted Bucky wall stand with height-adjustable and tiltable detector tray for a MAX wi-D flat detector for digital acquisitions. With IONTOMAT three-field chamber and Bucky frame. Vertical height adjustment and detector tilt possible from both sides.
1	<b>FOOT SWITCH FLUORO + EXPOSURE</b> For ergonomic working conditions during tableside fluoroscopy-guided examinations. The footswitch combines two separate pedals for fluoroscopy and X-ray and allow for X-ray exposures directly following fluoroscopy.
1	<b>2nd Control Panel Luminos dRF</b> Additional system control console in the exam room for table side procedures.
1	<b>CAREPROFILE - C</b> Reduces dose for patients and staff by radiation free collimation. The collimator blades are placed using the last-image-hold for orientation.
1	<b>Careposition C</b> Reduces dose for patients and staff by radiation-free object positioning. The region of interest is placed using the last-image-hold and displaying the X-ray center beam as well as the image edges graphically.
1	<b>Fluoroloop - C</b> Storage and review of fluoroscopy sequences for documentation. The maximum storable fluoroscopy time depends on the selected pulse rate.

<b>Qty</b>	<b>Item Description</b>
1	<b>DCS 1 with 1 display</b> Flexible positioning of one flat display in TFT technology (high luminance and extended viewing angle) for live image display in the examination room to save space on the floor. The display suspension system includes a radiation indicator, is ceiling-mounted, swiveling rotatable and height-adjustable with longitudinal travel.
1	<b>DICOM WORKLIST &amp; MPPS</b> Import of patient/examination data from an external RIS (Radiology Information System) /HIS (Hospital Information System) patient management system with DICOM MWL (Modality Worklist) as well as feedback on the examination status with DICOM MPPS (Modality Performed Procedure Step).
1	<b>DICOM QUERY RETRIEVE - C</b> Retrieval of archived images from a digital archive or from a workstation, created with the FLUOROSPOT Compact, in DICOM XRF, XA, CR, or SC format.
1	<b>Security Package</b> Software extension for workplaces enabling enhanced security features including user management and audit trail functionality.
1	<b>External DVI interface</b> Standard video output (DVI-D format) at the FLUOROSPOT Compact, for connecting an external recorder to record image information on video recording media.
1	<b>Caremax plus HS Integrated</b> CAREMAX plus DAP meter for measuring the dose-area product (DAP) and/or standardized patient entry dose. Resolution 0.01 µGym².
1	<b>Detector holder lateral</b>
1	<b>Foot switch for intercom sys.</b>
1	<b>Intercom system</b>
1	<b>VA Kit</b> Second set of documentation for Veterans' Affairs Administration Hospitals in the U.S.
1	<b>Customer documentation, English</b> One set of manuals is included with the system. This option is only for customers that require more than one set of system manuals.
1	<b>Initial onsite training 24 hrs</b> 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	<b>Additional onsite training 16 hours</b> Up to (16) 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 if applicable. This educational offering must be completed (12) months from purchase date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
1	<b>Standard Rigging Fluoro</b>

**Qty**

**Item Description**

1

**teamplay Welcome & Registration Package**

teamplay is a cloud-based network that brings together your imaging modality users, the systems' dose and utilization data, and the users' expertise to help you improve the delivery of care to your patients. Basic features are provided free of charge. Premium features (benchmarking, non-Siemens devices) are provided on a trial basis for three months at no charge, and may be used thereafter on a subscription fee basis.

To register: <http://teamplay.siemens.com/#!/institutionRegistration/1>

---

---

## OPTIONS

Qty	Item Description
1	<b>SmartMove - Automatic Positioning</b> The system can be moved automatically in a predefined OGP (organ program) position using the SmartMove button with LED at the system control console or the tableside control.
1	<b>Portable DR Panel Protector(14x17)</b> 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	<b>TIMS 2000 SP Package</b> Includes: TIMS 2000 SP desktop system, 19" monitor, one license of TIMS DICOM Review Software (TDRS), wireless microphone, keyboard, mouse, and associated cables. Description: Provides for the high resolution video and synced audio recording, review, analysis, and archiving to PACS of modified barium swallow studies for speech pathology. The system is positioned on the desktop of the fluoroscopy room control area. Also includes one license of TIMS DICOM Review Software (TDRS) for the remote review and analysis of studies in the speech pathology office area. This allows for more efficient use of the fluoroscopy room because studies are sent immediately to the TDRS system at the completion of the study. With this workflow, the fluoroscopy room is immediately available for the next patient, allowing more studies per day. Speech pathologists can then edit, review, label, analyze, and archive to PACS studies from the comfort of their own office. Onsite installation and training is included when purchased with a new Siemens' system. When purchased to upgrade an existing system, the customer is responsible for room preparation and cable installation per Foresight Imaging's planning guide. Additional costs may be required for a Siemens service engineer. Warranty: Support & Maintenance for one year. Includes technical support via telephone, email, and online on regular business days from 8:00am to 8:00pm EST, downloadable software updates, and in the event of a hardware failure, a replacement system is sent within two business days.

## Detailed Technical Specifications

### Description

#### System configuration

The height-adjustable and tiltable basic system with a patient positioning tabletop movable in every direction has an inclinable telescopic tube assembly stand with longitudinal travel and a swivable overtable X-ray tube assembly including an automatic multileaf collimator and an integrated 43 cm x 43 cm detector for digital acquisition technique.

#### Patient positioning

Patient positioning table easily accessible from all sides, tiltable from +90° to max. 45° Trendelenburg position.

- Table height adjustable between 50 and 100 cm (with installation plate in the floor from 48 to 98 cm).
- Patient positioning tabletop 210 cm x 80 cm with examination range over the entire radiolucent part (193 cm x 53 cm). Motorized longitudinal travel  $\pm 80$  cm and transverse travel  $\pm 17.5$  cm.
- Footrest insertable at head or foot end, up to a load of 230 kg.
- Comprehensive protection against crushing and collision within the travel range of the tube column.

#### Patient weight:

- Up to 150 kg: No restriction.
- 151 kg to 180 kg: Patient longitudinal travel  $\pm 40$  cm with slow movement, table tilt unrestricted.
- Between 181 kg and 230 kg if tabletop is in center position. Table tilt from + 90° to - 15°.
- Between 231 kg and 300 kg if tabletop is in center position. Table tilt from + 45° to - 15°, table lift still possible.

Interventions up to a patient weight of 250 kg (plus 50 kg still possible for CPR).

#### Integrated telescopic tube assembly stand

- With 113 cm travel in the longitudinal direction.
- Oblique projection max.  $\pm 40^\circ$  in all system positions (for SID 115 cm) and selectable 0° position.
- Asymmetric collimation for non-centered patient positioning.
- Height-adjustable fulcrum from 1 cm to 30 cm for parallax correction (object in isocenter).
- Motorized swivel of the tube assembly stand (with multileaf collimator) from +90° to -180°.
- Motorized adjustment of SID 115 cm or 150 cm.

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

- Single-track, dual-focus rotating anode tube with compound anode (rhenium-tungsten, molybdenum, graphite)
- High heat storage capacity and high thermal load capacity for small focal spots. Integrated overpressure safety device in the tube protective housing.
- 150 kV nominal voltage acc. to IEC 60613.
- Nominal radiographic anode input power acc. to IEC 60613 (focal spot nominal values acc. to IEC 60336):  
47 kW: small focus 0.6  
85 kW: large focus 1.0
- Anode speed  $\geq 8,500$  rpm, anode angle 12°.
- Heat storage capacity of the anode 580 kJ (783 kHU) acc. to IEC 60613.
- Total filtration (IEC 60601-1-3)  $\geq 2.5$  mm Al equiv.

#### X-ray generator

- Microprocessor controlled 100 kHz high frequency generator with 65 kW nominal power (IEC 60601-2-7)

## Description

- Highly accurate radiographic parameters, precise reproducibility and fast regulation of high voltage and tube current
- 40 kV to 150 kV tube voltage range
- 1 mA to 1000 mA
- 0,5 mAs to 800 mAs
- Min exposure time: 1ms
- Supports 1- , 2- and 3 point autoexposure techniques
- Supports falling load operation for minimum exposure time
- Optional line matching transformer for 3-Ph-440 V / 480 V
- Drives 3-phase high speed tube stators
- Fluoroscopy, 450 W from 40 kV/0.2 mA to 110 kV/23 mA, pulsed fluoroscopy
- CAREMATIC system for 0-point technique
- Time and mAs post indication (with IONTOMAT operation)
- Fluoro mean value indication

### Accessories included in basic version

- Footrest, insertable at the head or foot end
- Footswitch for fluoroscopy and acquisition in the control room
- Handgrips, angled, 1 pair
- Grip protection rail, head end, removable
- Hand grip, rail
- Shoulder supports (1 pair)
- Protective sheet for fluid spills
- Wall holder for storing grids

### Flat panel detector

The digital high-resolution MAX dynamic flat detector with integrated removable grid is especially designed to fulfill the requirements of general and interventional applications.

- Semi-conductor material: Amorphous silicon (a-Si) with CsI-scintillator
- Size 43 cm x 43 cm
- Pixel size: 148  $\mu$ m (6.76 pixel per mm)
- Physical size of matrix: 2880 x 2880 (8.3 million pixels)
- Size of active matrix: 2840 x 2874 (8.2 million pixels)
- Detail resolution: 3.4 LP/mm
- Acquisition depth: 16 bits

148  $\mu$ m pixel arrays provide highest spatial resolution and excellent contrast. Fluoroscopy as well as image acquisition are always done in 14-bit gray scale resolution, allowing excellent detail visibility. Acquisition frame rates of up to 8 f/s are possible.

Usable input formats:

- Overview: 43 cm x 43 cm; diagonal 60 cm.
- Zoom 1: 30 cm x 30 cm; diagonal 42 cm.
- Zoom 2: 22 cm x 22 cm; diagonal 32 cm.
- Zoom 3: 15.5 cm x 15.5 cm; diagonal 21 cm.

### Console

Remote-control console for operating full radiography system, incl. generator and imaging system. Joystick control of system movements and touchscreen input of X-ray parameters and imaging system functions.

### Collimator

## Description

The exposure format is automatically displayed depending on the selected zoom level.

The display can be set smaller manually by means of two turning knobs at the collimator, by joystick at the remote control console or at the tableside control panel.

- Full-field light localizer, laser line light localizer and LCD display.
- Profiled rails to insert collimator accessories.
- To improve image quality through dose reduction of the soft radiation parts, organ-programmable Cu prefilters can be brought into the primary beam projection: 0.1 mm Cu (3.5 Al equi), 0.2 mm Cu (7.1 Al equi), 0.3 mm Cu (10.8 Al equi).
- Collimator rotatable by  $\pm 45^\circ$  around the center beam axis, e.g. for correct positioning of objects with distal extremities.
- Tape measure for determination or control of the SID.
- Laser line localizer for centering in axial direction, coverable.
- Display of current collimation in height and width, the SID, the Cu filter value and the system status.

### Imaging system

High-resolution digital imaging system with innovative image display, DICOM network connection and syngo-like user interface. It was optimized for general fluoro and multi-functional workplaces.

With the FLUOROSPOT Compact both single acquisitions and series from 0.5 to 8 images per second in  $1440^2$  matrix can be made and reviewed dynamically.

The digital acquisition process produces continuously high-quality images for all fluoroscopy-guided contrast medium examinations, skeletal acquisitions and interventional procedures.

Operating modes:

- Digital radiography (DR) with up to  $2,880^2/12$ -bit matrix.
- Digital pulsed fluoroscopy (CAREVISION) with selectable pulse frequencies: 3 p/s, 7.5 p/s, 10 p/s, 15 p/s in  $1024^2/12$ -bit matrix. 30 p/s in  $512^2/12$ -bit matrix. Pulsed fluoroscopy is especially suitable for time-intensive examinations to reduce the radiation dose for physician, staff, and patient.
- Display and storage of the last fluoroscopic image after switching off radiation (Last Image Hold).
- Single image and serial mode up to  $1,440^2/12$ -bit or  $1,024^2/12$ -bit matrix (depending on zoom).
- Serial mode (max. 8 f/s) with variable frame rate in three steps (max.  $1,440^2/12$ -bit matrix).
- DDO (Dynamic Density Optimization) for on-line harmonization of native series and single images.
- Live auto-windowing during fluoroscopy
- Live auto-shutter during fluoroscopy

Image processing:

- Real-time edge enhancement, positive/negative image display, windowing, contrast/brightness, electronic display (shutter), image shift (roaming), vertical and horizontal image inversion, magnifying glass and zoom functions.
- DiamondView Plus: multi-scaling procedure for image post-processing with high detail contrast and reduced noise. Filter size and strength are weighted differently and are used for adaptation to the overall image content. DiamondView Plus enhances the signal exploitation of the dynamic range and improves the organ-specific detail contrast (soft tissue and bone). Can be preset in the organ program, and can subsequently be selected or deselected.
- Storing of single images as reference images also during fluoroscopy.
- Quantification: angle/length measurement, automatic and/or manual calibration.
- Text functions: User-defined image annotation, free annotation or using text components, comment line for the image, R/L display, image report and image quality graphics.
- Image gallery for harmonization (visualization support for image post-processing)

Image display:

Image review and display in 100 Hz progressive display ( $1,024^2$  matrix) through high-resolution, flicker-free flat-screen displays.



## Description

- Screen layout with 4, 9, 16, 25, or 36 images of an examination.
- Display of R/L marks.

Image storage capacity:

50,000 images for permanent storage in 1k/12-bit matrix and 2,000 images for permanent storage in 2840 x 2880 matrix.

Keyboard and mouse included.

### **19" display for live image display in the control room**

TFT technology with high luminance and extended viewing angle.

- 19" (48 cm) monitor.
- Resolution: 1280 x 1024 pixels
- Maximum brightness (typ.):  $\leq 800$  cd/m<sup>2</sup>
- Flicker-free and distortion-free image display.

### **DVD / CD burner (DICOM)**

DVD drive for automatic digital image storage on CD-ROM for offline data exchange in DICOM, TIFF, and AVI format.

### **Connectivity**

- DICOM Send: Digital, unidirectional image transfer of single images or complete folders to a network in DICOM format.
- DICOM Print: Provision of DICOM Print service for connection to a laser camera or a network printer (postscript-capable).
- DICOM Storage Commitment (StC): The network/archive sends a receipt acknowledgment for images/folders to the image system in DICOM format.
- DICOM Dose structured report: Enables transfer of dose report to archiving or viewing station.

### **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.

### **Siemens Remote Service**

System Management software package to support Siemens Remote Service (SRS) with the following functions:

- Basic package Siemens Remote Service for Diagnostics and Repair, Quality Assurance and Software Maintenance.
- System remote configuration, e.g. adding of a DICOM node.
- Early warning system to secure system operation.
- The functions are made available in accordance with the maintenance contract package.

Prerequisite for the early warning system is a permanent connection to the system via LAN and router. It is the project manager's task to make this available on-site.

## Description

### Power connection for the entire X-ray system

Basic version: 3/N/PE ~400 V ( $\pm 10\%$ ) for 50/60 Hz line frequency.

Option: 3/N/PE ~440/480 V ( $\pm 10\%$ ) at 50/60 Hz via line adaptation transformer.

Technical details:

- Compression force is adjustable in fine increments from 5 to 155 N
- Digital display (LCD) for 15 force increments on the operating console
- Movement of device is automatically blocked at 50 N
- Emergency release
- Weight: 23 kg

Technical details:

- CsI scintillator, amorphous silicon (a-Si).
- Detector acquisition matrix approx. 2872 x 2354
- Pixel size 148  $\mu\text{m}$
- Acquisition depth (gray scales) 16 bit
- Acquisition formats up to 34,9 cm x 42,5 cm (13,7" x 17")
- Thickness 19mm
- Data transfer via W-LAN
- Operation time:
  - min. 3.5 hours during regular utilization
  - min. 6 hours in standby mode
- Detector weight 3 kg
- Max. load 150 kg (patient lying down) and 100 kg (patient standing)

Technical details:

- Grid ratio 5:1, 85 lines/cm
- Grid focusing for source-image-distance (SID) of 115 cm (45")
- Dimensions (W x H x D): 472.1 mm x 410.1 mm x 28.4 mm (18.58"x 16.14"x 1.1")
- Weight: 1.1 kg (2.4 lbs)

Technical details:

- Grid ratio 13:1, 92 lines/cm
- Grid focusing for source-image distance (SID) of 140 cm (55")
- Working range (SID) 115 cm to 180 cm (45" to 71")

Performance data:

- 80 kW at 100 kV according to IEC 60601  
max. 1000 mA

### System Configuration

The Ysio Max digital workplace is especially suited for a high patient throughput. 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 tube assembly support with X-ray tube assembly and motorized multileaf collimator.

## Description

### Tube assembly support

with X-ray tube assembly and motorized collimator.

All projection-relevant tube assembly positions can be manually adjusted with handles symmetrically mounted to the tube assembly collimator unit.

The ceiling-mounted tube assembly support 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 or 355 cm (depending on room planning).
- Vertical lift 180 cm.

In 2 further axes ( $\alpha$ - and  $\beta$ -axes) the tube assembly collimator unit can be manually adjusted 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  $+154^\circ$  to  $-182^\circ$ . Lock-in positions every  $90^\circ$ .
- Rotation around the horizontal axis of the tube assembly support arm  $\pm 140^\circ$ . Lock-in positions at  $0^\circ$  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)
- high heat storage capacity and high thermal load capacity for small focal spots. Integrated overpressure safety device in the tube protective housing
- Nominal voltage 150 kV acc. to IEC 60613
- Nominal radiographic anode input power acc. to IEC 60613 (focal spot nominal values acc. to IEC 60336):  
47 kW: small focus 0.6  
85 kW: large focus 1.0
- Anode speed  $\geq 8,500$  r/min, anode angle  $12^\circ$ .
- Heat storage capacity of the anode 580 kJ (783 kWh) acc. to IEC 60613.
- Nominal radiographic anode input power acc. to IEC 60613 (focal spot nominal values acc. to IEC 60336):

### 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 (0.1 Cu; 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.

Display includes:

- The collimation size of the acquisition field (in cm x cm).
- The selected SID.
- The selected Cu additional filters.

## Description

- 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.

CAREMAX plus Dose Area Product (DAP) meter 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.

The Bucky wall stand is a floor-mounted, stand-alone or wall-mountable grid acquisition system with a height-adjustable and tiltable detector tray with tray support and the ability to insert a MAX wi-D 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.

- 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.

Fixed, replaceable transparent grid to reduce scatter radiation; 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).

- The detector Bucky with single-handed operation includes an IONTOMAT three-field chamber for automatic exposure control (incl. three-field templates) and a tray that can hold the MAX wi-D detector in the portrait or landscape position. In landscape, the detector is set up for lung acquisitions at the upper edge.
- The MAX wi-D detector is supplied with power in the tray and the detector's battery is charged.
- The MAX wi-D detector is detected in the tray. CR cassettes can also be used directly in the tray.
- Vertical height adjustment of the counter-balanced, easily movable detector Bucky from detector center approx. 31 cm to 172 cm above floor. Operation possible from both sides.
- Front plate – detector distance  $\leq 42$  mm.

### Accessories

In the scope of delivery:

- Lateral patient handles for optimum patient positioning, e.g. during p.a. thorax exposures.

## Description

- Patient overhead handle, swiveling around the horizontal axis, for optimal patient positioning for lateral acquisitions.

Weight: 1.0 kg (2.2 lbs)

The control console is mounted on a trolley and allows full operation of the system, incl. joystick control of system movements, touchscreen input of X-ray parameters and imaging system functions.

Technical details:

- 19" (48 cm) monitor.
- Resolution: 1280 x 1024 pixels
- Maximum brightness (typ.):  $\leq 800$  cd/m<sup>2</sup>
- Flicker-free and distortion-free image display

### **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.

DICOM Query/Retrieve service as SCU (Service Class User)

Supported formats:

- DICOM XRF (X-ray Fluoroscopy)
- DICOM XA (X-ray Angiography)
- DICOM CR (Computed Radiography)
- DICOM SC (Secondary Capture)

The images need to be created with FLUOROSPOT Compact (*syngo FLC*).

### **Note concerning DICOM interface(s)**

For the functionality of the DICOM interface(s), only the description of them given in the "DICOM Conformance Statement" (downloadable from the Internet) is binding.

Cross-interface functionalities that are shared by or that link partner systems require explicit validation, since the interpretation of the interface by the partner system or target system lies outside the scope of the product's liability.

Any changes to the interface that may be required are not part of this quotation. This also applies in those rare cases when the existing configuration options are insufficient.

<b>Description</b>
With regard to expenses for interface configurations that might be required, the agreements made governing maintenance and service of the product apply.
This SW license enables the Workplace System to support enhanced user and system management, including: <ul style="list-style-type: none"><li>- user authentication to prohibit unauthorized access</li><li>- privileges to define user/role based functionality</li><li>- permissions to control data access</li><li>- audit trails to log system and data access</li></ul>
The CAREMAX plus dose-area product meter (DAP meter) is connected to the collimator via the CAREMAX adapter cable. The dose-area product (DAP) is displayed on the TUI of the system operating console and is recorded in the examination report.
Technical details: <ul style="list-style-type: none"><li>- Dimensions (H x W): 22 cm x 53 cm</li><li>- Weight: 5.3 kg</li></ul>
Not pressed: examination room – control room. Pressed: control room – examination room. Is operated by the examiner.  Weight: 0.2 kg (0.44 lbs)
Weight: 8 kg (17.6 lbs)