

V.A. Medical Center
5000 W NATIONAL AVENUE
BLDG 111
MILWAUKEE, WI 53295

TRADE-IN : EE#: 420099
NO OTHER INFORMATION ON PO

PO# 695-B38008

All items listed below are included for this system: (See Detailed Technical Specifications at end of Proposal.)

Qty	Item Description
1	Interventional Cardiology X-ray angiography system with primary clinical use in interventional cardiology, including application-specific accessories.
1	Artis zee ceiling Universal ceiling-mounted C-arm angiography system with a high-resolution flat detector. The powerful 100 kW generator and MEGALIX Cat Plus X-ray tube with its new flat emitter technology are the prerequisites for excellent image quality. The CLEAR functionality to optimize the image impression, the CARE package to reduce radiation exposure, and DICOM standards are all included. The system has been prepared for Siemens Remote Service.
1	Sys SW incl cardiac acquisition Imaging system software including cardiac acquisition with frame rates of 7.5, 10, 15, and 30 f/s. Acquisition, display, and storage in 1k/12-bit matrix.
1	DSA / DR (1) Digital acquisition technology and digital subtraction angiography in matrix 1k.
1	Card Subtraction Digital subtraction angiography with frame rates of 7.5, 10, 15 and 30 f/s (monoplane and biplane), acquisition, display and storage in matrix 1,024 ² .
1	CLEARstent CLEARstent enables an improved display of vascular supports (stents).
1	3D / Dynavision Native or subtracted (with DSA option only) rotational angiography with angle and ECG triggering, generating the image data required for 3D reconstruction.
1	Detector 20 x 20 incl.Compts. (T) High-resolution, dynamic flat detector for fully digital imaging chain, with integrated, removable grid. CAREwatch measuring chamber for detection of the dose-area product. MEGALIX 2-focus high-performance X-ray tube assembly, rotatable card collimator including CAREfilter, and integrated collision protection.

1

Table Standard

Floor-mounted swiveling patient table with telescopic foot and floating tabletop.

1

Table Top & Mattress, Narrow

Carbon fiber tabletop in narrow design with head-end recess, including matching special foam material mattress. Mattress including cover.

1

Foot Switch Monopl. (Cable)

For release of fluoroscopy, exposure and table brake as well as a configurable additional function. Cable connection.

1

Ceiling Rail Extension (1)

Rails for extending the longitudinal travel range of the display suspensions system by 1.2 m.

1

DCS 4m extDVI 2xBWD-19D(L+R+2xFrt.)

Display suspension system for four flat displays in a row, with two 19" monochrome flat displays with blue background color. Prepared for two additional displays.

2

19" color display with video cable

One additional 19" color display including 36 m cable with DVI-D connection for installation in display ceiling suspension (DCS). LCD color display with high luminance and extended field of view.

2

Analog/digital video converter

This connection kit is needed to convert the analog video signal of a unit, such as an ultrasound system, to a DVI-D video signal. Note the following conditions if image content from third-party provider video signals are to be displayed on the Artis displays: - The display of external video signals depends on the operational state of the Artis system. If the Artis system has a malfunction or is shut down, the display of external video signals is not available. For this reason, do not feed the video signal into the Artis system if lacking the external video signal could result in a hazardous situation. - A third-party provider's unit may be connected only if it corresponds to the specifications of the video interface (e.g., at the MDM). - The connection may only be established by a Siemens service technician. Note: The connection must be made with fiber-optic cables to ensure that the unit's galvanic isolation is maintained. The fiber-optic cables must be ordered separately. - A third-party provider's unit must be connected by a technician from the third-party provider or by a hospital technician responsible for the equipment. - It is strongly recommended that a test of image quality be performed by the third-party provider prior to start-up. This test ensures that the required image quality is achieved. - The person placing on the market is responsible for ensuring that applicable standards are maintained in the current version, e.g. 4 kV insulation. Siemens will not be held liable for the inclusion of third-party provider units with respect to image quality and their suitability for clinical diagnosis.

1

4x1 video signal distributor

With this item you can show one video signal each from up to 4 units (such as a cardiac catheter recording system, workstation, ultrasound unit, PACS, etc.) on up to two displays (not a large display) in the display suspension system (DCS) in the examination room. The following conditions must be met: if image content from third-party provider video signals is to be shown on Artis displays: - The display of external video signals depends on the operational state of the Artis system. If the Artis system has a malfunction or is shut down, the display of external video signals is not available. For this reason, do not feed the video signal into the Artis system if lacking the external video signal could result in a hazardous situation. - A third-party provider's unit may be connected only if it corresponds to the specifications of the video interface (e.g., at the MDM). - The connection may only be established by a Siemens service technician. Note: The connection must be made with fiber-optic cables to ensure that the unit's galvanic isolation is maintained. The fiber-optic cables must be ordered separately. - A third-party provider's unit must be connected by a technician from the third-party provider or by a hospital technician responsible for the equipment. - It is strongly recommended that a test of image quality be performed by the third-party provider prior to start-up. This test ensures that the required image quality is achieved. - The person placing on the market is responsible for ensuring that applicable standards are maintained in the current version, e.g. 4 kV insulation. Siemens will not be held liable for the inclusion of third-party provider units with respect to image quality and their suitability for clinical diagnosis.

1	<p>MMV interface for switching at ECC</p> <p>At the ECC touchscreen console, switching between different video sources, e.g. syngo Workplace, integrated workstation, ultrasound system and patient monitoring, for display on an in-room monitor.</p>
1	<p>ACE Cable Set in Equipm.Room</p> <p>Image system interface to the displays in the control room if the image system is installed in the equipment room.</p>
1	<p>C-Room DVI 1xBWD-19 (Live) -36m</p> <p>One monochrome 19" flat-screen display with blue background color.</p>
1	<p>ECG Interface (1)</p> <p>Recording, storage and display of an ECG lead. Displayed together with the image information on a single monitor.</p>
1	<p>Table support (ECG interf. box)</p> <p>Holder for the ECG interface when using an OEM measurement system in the examination room.</p>
1	<p>LV analysis</p> <p>Analysis of the left ventricle with distance measurement and calibration.</p>
1	<p>Scientific QCA</p> <p>Scientific cardiac vessel analysis with determination of degree of stenosis, distance measurement and calibration.</p>
1	<p>patient recovery kit</p> <p>Manual C-arm release for easy patient recovery in case of a complete system failure.</p>
1	<p>Fluoro Loop (1)</p> <p>Storage and review of dynamic fluoroscopic sequences (Fluoro Loop). The maximum storable fluoroscopic time depends on the selected pulse rate, e.g. 34 s at 30 p/s, 68 s at 15 p/s (VC21 software required). Note: With VC14 software, the values are 17 s at 30 p/s, 34 s at 15 p/s.</p>
1	<p>Automap</p> <p>Automatic stand positioning depending on the selected reference image and automatic reference image selection depending on the stand positioning.</p>
1	<p>DICOM HIS / RIS</p> <p>Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist).</p>
1	<p>DICOM Print</p> <p>Provision of DICOM Print service for connection to a laser camera or a network printer (postscript).</p>
1	<p>Head Side Support</p> <p>The head end holder can be attached at the head end of ARTIS tabletops (narrow = card). This is a special accessory rail holder enabling incorporation of the head supports, shoulder supports and articulated arm supports, and the anesthetic curtain.</p>
1	<p>Handles with support (2pc.)</p> <p>Hand grips for patient positioning for examinations requiring the arms to be held in a specific position.</p>
1	<p>LB rad. protection w/ pivot arm</p> <p>For shielding the lower body against scattered radiation within the examiner's moving range. Specially designed for avoiding collisions with the tube during oblique projections, therefore especially suited for cardiology.</p>

1	<p>Upper Body Rad. Prot. Artis-T</p> <p>To protect the upper body against scattered radiation within the operating range of the examiner, e.g. during interventional procedures.</p>
1	<p>Examination lamp, 115 V</p> <p>Ceiling-mounted OR lamp (examination light class), flexibly adjustable towards the user, for diagnostics and minor surgery. Examination light Mach 130F with focusable dielectric light system. - Luminance: 35,000 Lux (3,255 fc) for 100 cm distance - Working distance: 70 to 140 cm - Color rendering index Ra (gen.): 96 - Color temperature: 4,300 Kelvin - Focusable spot size: 14 to 25 cm - Light body diameter: 22 cm - Halogen lamp: 22.8 V/50 W Examination light power connection 115 V Only in connection with upper body radiation protection 144 07 034 or 144 07 035. For direct connection with 115 V line voltage only. Max. arm length: 185 cm. Weight: 14 kg *2 May only be delivered in the USA with the local material no. or sales no. in the US price book</p>
1	<p>Interface for C-Room Operation(MA)</p> <p>Interface for connecting the optional system control from the control room.</p>
1	<p>Control room emerg. stop module</p> <p>Safety button for switching off all system functions from the control room.</p>
1	<p>Hand switch manual</p> <p>Additional hand switch for radiation release and additional control functions.</p>
1	<p>Control Room Injector Interface</p> <p>Interface for controlling the contrast medium injector from the control room.</p>
1	<p>syngo Keyboard, English - US</p> <p>Keyboard with special syngo keys.</p>
1	<p>VOLCANO s5i Cable Set</p> <p>Cable set for operating the s5i system.</p>
1	<p>Intercom - Comfort</p> <p>Communication / intercom system for communication between examination room and control room.</p>
1	<p>Supply Line #Headside Control</p> <p>4.5 m cable for connecting the control modules located at the head end.</p>
1	<p>Body module</p> <p>Table insert with attached accessory rails for mounting control modules in the 'abdominal' part of the patient positioning tabletop.</p>
1	<p>LB rad. prot. w/ left pivot arm</p> <p>For shielding the lower body against scattered radiation within the examiner's moving range. Specially designed for avoiding collisions with the tube during oblique projections, therefore especially suited for cardiology.</p>
1	<p>Preinst.Visual GW Artis-T(mono)</p>
1	<p>Pre-install Artis table, std</p>
1	<p>Initial onsite training 32 hrs</p> <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>
1	<p>Offset Initial Training 32 hrs</p>

1

Follow-up training 12 hrs

Up to (12) hours of follow-up on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. 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

Additional onsite training 32 hours

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 if applicable. 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

GOVT Training Class (T & L not included)

Tuition for (1) government attendee to attend a classroom course of choice at one of the Siemens training centers. 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

Training Class T&L not included

Tuition for (1) imaging professional to attend a classroom course of choice at one of the Siemens training centers. 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.

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

1

Mark 7 Arterion, Pedestal System

The Arterion Mark 7 Pedestal contrast medium injector can be positioned anywhere at the patient positioning table on a mobile unit, for direct operation of all functions in the examination room. The injector system includes: A mobile pedestal stand with electronics unit, a contrast medium heater and a connection cable to the manual release. A support arm with injector head and a control lever for moving the injector head. A user control console with large touch screen and corresponding additional monitoring display on the injector head. Functions Pressure limitation: for 150 ml syringes 689 to 8273 kPa, corresponds to 100 to 1200 psi. . Flow rates for 150 ml syringes: 0.1 to 45 ml/s in increments of 0.1 ml/s 0.1 to 59.9 ml/min in increments of 0.1 ml/min rise/fall: 0 to 9.9 s in increments of 0.1 seconds Release delay for injection or radiation: 0 to 99.9 s in increments of 0.1 s. Adjustable volume for 150 ml syringes: 1 ml to the max. syringe capacity in increments of 1 ml. Fill rate: Variable syringe filling speed 1-20ml/s. Injection protocols: Up to 40 injection protocols possible. Parameters currently displayed on the touch screen display and on the head display: Injection speed Injection volume Remaining volume Injection duration Applied pressure Contrast medium heating: Nominal 35°C (95°F)+-5°C (9°F) Injection data memory Up to 50 injection data items stored Included in the scope of delivery Injector standard configuration 150 ml SIEMENS interface cable Operator Manual Service manual (English). Power supply 200 V to 250 V; 50/60 Hz.

1

Eaton Powerware 9390 160 kVA UPS

Includes UPS, battery, maintenance bypass panel, and one year on-site parts and labor coverage (24x7) by Eaton Powerware. This product has been tested and verified for compatibility with the following Siemens' products: Artis Zee. Complete system backup without interruption. One UPS per lab.

1

Blue anti-fatigue floor mat for hospital

1

Standard Rigging zee SP

1	VA kit Artis zee systems Second set of documentation for deliveries to the Veterans' Affairs Administration Hospitals in the U.S.
1	Additional Rigging AXA__\$11,350

ALTERNATE PRODUCTS:

Qty	Item Description
1	Eaton Powerware 9355 15 kVA UPS Includes UPS, battery, maintenance bypass panel, and one year on-site parts and labor coverage (24x7) by Eaton Powerware. This product has been tested and verified for compatibility with the following Siemens' products: Artis Zee. This UPS is recommended when protection and uninterruptible power is required for the C-arm and table. Emergency fluoroscopy is not available with this UPS. If emergency fluoroscopy is required, the 9390 - 160 kVA UPS is recommended for the full system. One UPS per lab.
1	Detector 30x40 incl LaserCrossh.(T) High-resolution, dynamic flat detector for fully digital imaging chain, with integrated, removable grid and laser crosshairs as a positioning aid. CAREwatch measuring chamber for detection of the dose-area product. MEGALIX 3-focus high-performance X-ray tube assembly, rotatable angio collimator including CAREfilter, and integrated collision protection. <i>This item has been quoted as a substitute for Part No. 14427130 - "Detector 20 x 20 incl.Comprts. (T)" that has been included in the quotation.</i>

Detailed Technical Specifications

Artis zee ceiling - latest version

Part No. / Product	Description
14417017 Interventional Cardiology	<p>The accessories consist of:</p> <ul style="list-style-type: none"> - ECG cable clips
14427093 Artis zee ceiling	<p>System Configuration</p> <p>The monoplane C-arm system for digital acquisition techniques is designed to meet the requirements of state-of-the-art angiography and interventional procedures.</p> <p>C-arm ceiling-mounted stand: System cable outlet at the ceiling carriage, on the patient's left side.</p> <ul style="list-style-type: none"> - Up to 5 programmed work positions and additional 50 user-defined work positions. - One single joystick for patient angle oriented operation of C-arm and flat detector movements. - Integrated, computer-aided collision monitoring ICP (Intelligent Collision Protection). - C-arm positioning 0° to the head end and variable up to 135° to the left and right side along the patient longitudinal axis. - Double oblique projections of $\pm 100^\circ$ in orbital movements and up to 330° (+180°/-150°) in rotational movements (depending on gantry positioning and patient size). - Variable C-arm speeds up to 25°/s. - Variable source-to-detector distance between 90 cm and 120 cm. - Isocenter-floor distance 108 cm. <p>Integrated Multispace T: With motorized gantry rotation ($\pm 135^\circ$) for free positioning of system and table, for optimum patient access.</p> <ul style="list-style-type: none"> - Orthogonal system control, along patient longitudinal axis. - InFocus function to maintain projection during C-arm gantry rotation. InFocus saves time and dose because the ceiling-mounted support can be positioned in a flexible way without any impact on the image display. - Iso-tilt function to maintain projection during table tilt in the longitudinal direction (depending on table type). <p>Operation</p> <p>An ideal workflow requires full user operation capabilities for the system including imaging system and generator under sterile conditions in the examination room. That way the user is able to operate the system by himself without the need to leave the examination room. The intuitive <i>syngo</i> operating elements allow for managing the whole process from preparation of the patient to image post processing in a safe, reliable, and time efficient way.</p> <p>In the examination room: Complete system operation through modular control elements directly at the patient table for controlling C-arm movements, patient table and multileaf collimator. Touchscreen with multi-functional joystick for operation of the imaging system, including post-processing and quantification as well as selection of the organ programs. It is based on <i>syngo</i> operation. The touchscreen is specifically configurable to individual clinical requirements. Data regarding system and table geometry, dose data with CAREwatch, as well as system messages, are shown in the live display</p> <p>In the control room: Standard Siemens <i>syngo</i> control via keyboard and mouse for all imaging system functions such as image post-processing, archiving and configuring of organ programs.</p> <p>Display of system data Data regarding system and table geometry, dose data with CAREwatch, as well as system messages, are shown integrated on the display in the examination room.</p> <p>imaging system High-resolution digital imaging system with CLEAR technology, DICOM network connection and <i>syngo</i> user</p>

Part No. / Product	Description
<p>(Continued) 14427093 Artis zee ceiling</p>	<p>interface.</p> <p>In order to provide highest level system availability, the imaging system consists of two independent computer systems that manage central tasks such as real-time image processing during fluoroscopy or acquisition as well as post-processing and networking functionality separately from one another. This ensures the system performance will always meet the highest possible demands.</p> <p>Image storage capacity 25,000 images in 1k²/12-bit image matrix (extendable).</p> <p>Operating modes</p> <ul style="list-style-type: none"> - Digital pulsed fluoroscopy with pulse frequencies of 10 p/s, 15 p/s, and 30 p/s in 1k/12 bit matrix. - Overlay fade: On-line overlay of active fluoroscopy and reference image. <p>CARE package Siemens follows the ALARA principle: "As Low as Reasonably Achievable"; the CARE package (Combined Applications to Reduce Exposure) was developed based on this research and development principle to protect the examiner and the patient.</p> <p>Dose saving</p> <ul style="list-style-type: none"> - CAREvision: Pulsed fluoroscopy with additional, reduced pulse rates of 7.5 p/s to 0.5 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure, especially during interventional procedures. - CAREprofile: Radiation-free positioning of the primary and semi-transparent diaphragms by means of graphic display in the LIH (Last Image Hold). Collimator shutters and semi-transparent filters can be adjusted as a graphical overlay on the last-image-hold without any need for fluoroscopy. - CAREposition: Object repositioning without radiation through graphic display of the X-ray central beam and the image edges in the LIH (Last Image Hold). CAREposition enables the repositioning of an object under visual control without radiation. In case of table movements the current position of the central beam and the image edges are superimposed on the LIH image as orientation points. - CAREfilter is intelligent control software that helps minimize X-ray dose without negative impact on image quality. During fluoroscopy and acquisition special copper prefilters are inserted into the X-ray beam depending on current X-ray transparency calculated by CAREMATIC. The five-step adaptive Cu prefiltration is used to reduce the equivalent dose of the skin and improve radiation quality through dose saving of low-energy X-ray radiation: Filter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu. Selection is automatic depending on absorption. This is necessary to ensure that the optimal prefilter value is always active. This automation makes work easier for the user because the given optimal filter setting need not be adjusted manually. - CAREwatch: Display of the measured dose-area product and the calculated patient air kerma reference on the flat screen display. Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing for dose acquisition. Configurable screens on the data display and imaging system monitor: During fluoroscopy: Air kerma reference rate. During fluoroscopy interval: Accumulated air kerma reference or dose-area product or percentage of dose limit value (sum of fluoroscopy and acquisition). - Low dose acquisition: enables dose savings of up to 60 % during the examination. The low dose acquisition protocol can be released directly with the footswitch. <p>Dose monitoring</p> <ul style="list-style-type: none"> - CAREguard: offers the possibility of establishing three limit values for the air kerma reference. If the accumulated air kerma reference exceeds the configured limit value, a warning appears on the live display and tableside on the touchscreen control. This provides ideal air kerma reference monitoring during the examination. - CAREmonitor supports the physician by enabling dose-efficient examinations, thereby significantly reducing the risk of skin burns. It includes special monitoring of the skin entry dose, taking into account the geometric conditions of the system (device angulation, table position). This ensures that the skin entry dose applied to a specific region of the patient's body will not exceed a specified threshold, thereby better protecting the patient from the harmful effects of X-radiation. The critical equivalent skin dose to avoid X-ray-related skin injury is at about 2 Gy. CAREmonitor consistently calculates and displays the actual accumulated skin entry dose. This helps the user to detect a potential patient hazard quickly and with certainty.

Part No. / Product	Description
<p>(Continued) 14427093 Artis zee ceiling</p>	<p>Dose reporting</p> <ul style="list-style-type: none"> - CAREreport: part of the DICOM Structured Report; displays the dose information in DICOM format after every examination. This creates an integrated DICOM data set consisting of images and dose information, which can be sent together to a DICOM archive. The display of dose information in DICOM format permits the flexible analysis and further processing via a DICOM-capable analysis software/database. <p>CLEAR package The CLEAR package enables optimized image quality through real-time processing of the image data without increasing the radiation dose.</p> <ul style="list-style-type: none"> - CLEARcontrol: The new histogram analysis provides a more homogeneous image impression by harmonizing over- and underexposed areas of the image. This is done fully automatically, thus eliminating any further manual user corrections through windowing. - CLEARview: Dose-dependent filtering of the image data efficiently suppresses image noise, enabling clear, sharp images, even for low-dose acquisitions. - CLEARvessel: Every pixel is analyzed in real time, and vessel edges are shown in high contrast without adding noise to the image. - CLEARmotion: Fine moving structures, such as small vessels and guidewires, are detected in the image and motion artifacts are suppressed efficiently. The visibility of small moving vessels and guidewires is improved significantly during fluoroscopy. <p>In addition there is Dynamic Density Optimization (DDO) for on-line harmonization of native series and single images.</p> <p>Image processing</p> <ul style="list-style-type: none"> - Positive/negative image display, windowing, contrast/brightness, electronic display (shutter), image shift (roaming), vertical and horizontal image inversion, magnifying glass, and zoom functions. - Storing of single images as reference images also during fluoroscopy. - ECG acquisition and storage: Recording, storage, and display of an ECG lead. Displayed together with the image information on a flat display. - Quantification: angle/length measurement, selection of automatic and/or manual calibration. - Text functions: user-definable image annotation, free annotation or by means of text components, comments line for the image, R/L display. - Fast and direct access to all series, single images, and photo file via MULTIMAP both in the examination and in the control room. <p>DVD / CD burner (DICOM) DVD drive for automatic digital image storage in the background on DVD-/CD-ROM for off-line data exchange in DICOM format.</p> <p>Networking Network interface (1000 BaseT) with the following integrated DICOM services:</p> <ul style="list-style-type: none"> - 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 is fully automatically transferring the images to the archive scene by scene. This is a background process, and thus does not interfere with the ongoing fluoroscopy or acquisition. - 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 provides the necessary certainty to the user before deleting the acquired images locally in the imaging system. - DICOM-Query/Retrieve: Retrieval of archived images from a digital archive or from a workstation: Already archived image data from a previous examination can be fully retrieved and is then available for review and processing. The user can request CT or MR system images from the archive and display the data as a reference image in the examination room. There is no need for a separate workstation. - DICOM Structured Report: All the quantification results obtained on the system as well as all dose information on the individual radiation releases can be saved in DICOM SR (enhanced SR) format and transferred to a DICOM network.

Part No. / Product	Description
<p>(Continued) 14427093 Artis zee ceiling</p>	<p>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).</p> <p>Functionalities across interfaces 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.</p> <p>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.</p> <p>X-ray Generator Microprocessor-controlled high-frequency X-ray generator with automatic dose rate control for angiography.</p> <ul style="list-style-type: none"> - 100 kW at 100 kV (DIN 6822), nominal power max. 80 kW (100 kV, 800 mA, 0.1 s) with Megalix tube and the newest flat emitter technology. - SID tracking (automatic tube current adaptation to source-to-image receptor distance). - CAREMATIC automatic X-ray control system for fully automatic calculation and optimization of exposure data based on fluoroscopic data. - Patient transparency monitoring. - Tube load monitoring with indication in the data display. <p>The optimal X-ray parameters depend on the transparency of the patient at the current angulation, measured during fluoroscopy. These parameters are continuously calculated and updated. Test shots are no longer required. This achieves high image quality and minimum radiation exposure for physician and patient with every exposure release.</p> <p>Accessories included in the scope of delivery.</p> <ul style="list-style-type: none"> - Unilateral armrest - Infusion bottle holder - Additional hand switch for radiation release and additional control functions. <p>Siemens Remote Service Prepared for Siemens Remote Service SRS™ (during warranty, then with service contract):</p> <ul style="list-style-type: none"> - Hardware and software remote diagnosis. - System remote configuration, e.g. adding of a DICOM node. - Early warning system ensuring system operation. <p>syngo Evolve for Artis zee syngo Evolve is a service feature that is offered as a separate sales option for all systems of the Artis zee family. It is a key component of our upgrade strategy and allows the customer to take advantage of technological advancements.</p> <p>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", e.g.:</p> <ul style="list-style-type: none"> - initial application training, - interactive e-learning for various applications, - free customer magazines, - arrangements for clinical training via a global network, - and free trial licenses <p>You will find detailed information on our e-learning program and further details on general "Customer Care. Life" services on the internet.</p> <p>* "Customer Care. Life" offerings are not necessarily available to the full extent for all systems.</p>
<p>14417116 DSA / DR (1)</p>	<p>Digital acquisition technology with frame rates of 0.5 to 7.5 f/s in 1k/12 bit matrix and digital real-time filtration. Single image and serial acquisitions with time-controlled and manually variable frame rate.</p>

Part No. / Product	Description
(Continued) 14417116 DSA / DR (1)	<p>The 1k image matrix with a bit depth of 12 bits allows an excellent image contrast by using 4,096 shades of grey. Thus, the image quality meets highest expectations in angiography and fulfills all prerequisites for precise diagnostics and safe interventions.</p> <p>Digital subtraction angiography with frame rates of 0.5 to 7.5 f/s, including pixel shift, remask, roadmap, peak opacification for iodine contrast (MaxOpac) and CO₂ contrast (MinOpac); adding of the anatomical background (landmark) from 0 to 100%.</p> <p>With software version VC21 and higher, the following additional functions are available with Roadmap:</p> <ul style="list-style-type: none"> - DSA image can be selected as a mask for Roadmap - Zoom can be changed during Roadmap - Catheter and vascular contrast can be changed separately <p>Unexpected patient movements in DSA acquisitions will deteriorate image quality. Although this can be corrected via manual pixel shift, it is still inconvenient and time consuming for the user. Auto Pixelshift solves this challenge easily maintaining optimal image alignment.</p>
14427271 CLEARstent	<p>CLEARstent enables an improved display of vascular supports (stents) that are growing increasingly difficult to detect in fluoro images due to the increasing number of obese patients and the ever finer structures.</p> <p>Regardless whether contrast agent is injected during the scene or not, CLEARstent either generates a magnified still image of the highlighted stent or displays the vessel filled with contrast agent alternating with the still image.</p> <p>The still image from fluoroscopy can then be overlaid.</p> <p>CLEARstent can be activated with a single operation, directly at the patient table.</p>
14417023 3D / Dynavision	<p>Angle and ECG-triggered digital rotation angiography with corresponding image data transfer to a <i>syngo</i> X Workplace for 3D image data reconstruction.</p> <ul style="list-style-type: none"> - Rotation speed is up to 60°/s (Artis zee ceiling, Artis zeego) and 45°/s (Artis zee floor, Artis zee biplane). - Angle triggering allows a reduction in dose through a reduced acquisition frame rate while at the same time achieving better image quality. - All parameters required for the 3D reconstruction are included in the organ program. This enables optimized image quality and easy handling. - Acquisitions with frame rates in 1k matrix from 0.5 to 7.5, 10, 15, 30 f/s (standard) and 60 f/s with reduced spatial resolution can be selected, <p>Includes DYNAVISON DR for native and DYNAVISON DSA for subtracted (with DSA option only) rotational angiography. Reconstruction at the <i>syngo</i> X Workplace is not possible with these operating modes.</p>
14427130 Detector 20 x 20 incl.Compnts. (T)	<p>Flat detector 20 x 20</p> <p>The digital high-resolution dynamic flat detector with integrated removable grid is especially designed to fulfill the requirements of angiographic and interventional applications.</p> <p>184 µm pixel arrays provide highest spatial resolution and excellent contrast. Fluoroscopy as well as image acquisition are always done in 1k matrix and 14 bit gray scale resolution with high detail visibility. Acquisition frame rates of up to 30 f/s are possible.</p> <p>Usable input formats:</p> <ul style="list-style-type: none"> - Overview: 17.7 cm x 17.7 cm, diagonal 25 cm. - Zoom 1: 14 cm x 14 cm; diagonal 20 cm. - Zoom 2: 11 cm x 11 cm; diagonal 16 cm. - Zoom 3: 7 cm x 7 cm; diagonal 10 cm. <p>The very compact design with integrated collision protection provides maximum C-arm angulation range for excellent patient access.</p>

Part No. / Product	Description
<p>(Continued) 14427130 Detector 20 x 20 incl.Compnts. (T)</p>	<p>The flat detector is mounted on a motorized rotating turntable at the C-arm. This ensures upright presentation of the anatomy on the monitor screen independent of the relative position of the C-arm to the patient at all times. Motorized adjustment of the detector-patient distance.</p> <p>Digital data transfer from the detector to the imaging system is via a high-speed Gigalink fiber-optic cable.</p> <p>Removable grid: The grid can easily be removed, saving the user time in examinations not requiring a grid. For example in pediatrics, where dose reduction is especially important.</p> <p>Tube assembly MEGALIX Cat Plus 125/40/90-121GW Dual-focus high-performance X-ray tube assembly with flat emitter technology for cardiac angiography, with metal center tube in lubricated spiral groove bearing technology for permanent, noise-free rotation.</p> <ul style="list-style-type: none"> - Maximum tube voltage 125 kV - Focus: 0.4/0.8 (35/90 kW) - Anode angle 8° - Maximum anode heat storage capacity: 3,375,000 HU - Maximum tube current for fluoroscopy: 250 mA <p>High tube power provides brilliant image quality even with heavier patients. In addition there is no need for X-ray pauses even during lengthy cases. The X-ray tube is completely silent, which is an additional benefit for patient and user.</p> <p>Cardiac collimator Compact multileaf collimator for cardiac angiography with rectangular collimator and wedge-shaped filter.</p> <ul style="list-style-type: none"> - Automatic synchronous rotation of detector and collimator unit to compensate image rotation in the different working positions of the gantry. - Manual rotation of the detector and collimator unit using the control right on the detector housing. - Five-step adaptive Cu pre-filtration (CAREfilter) to reduce the equivalent skin dose and improve radiation quality through dose saving for the soft radiation parts. Filter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu. - Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing, for acquisition of the dose-area product and the calculated patient entry dose (CAREwatch).
<p>14427088 Table Standard</p>	<p>Patient table for angiographic examinations and interventions.</p> <ul style="list-style-type: none"> - Direct patient access from all sides, both through the swiveling table and large tabletop cantilever. - Electromechanical release of table swivel at the touch of a button at the table. - Telescopic foot with motor-driven height adjustment. - Max. patient weight 250 kg. Accessories weighing up to 40 kg can also be installed.
<p>04435140 Table Top & Mattress, Narrow</p>	<p>Carbon fiber tabletop in narrow design with head-end recess and matching special foam mattress, for example for cardiological applications. Tabletop tapered in the thorax area for maximum freedom of C-arm angulation.</p>
<p>14417185 DCS 4m extDVI 2xBWD- 19D(L+R+2xFrt.)</p>	<p>Ceiling-mounted, swiveling, rotatable and height-adjustable display suspension system with longitudinal travel and two 19" high-contrast b/w displays for live and reference image display in the examination room. The double-articulated arm of the extended display suspension system provides greater flexibility and a larger display positioning range. There are two free slots for mounting two additional displays.</p> <p>Flat displays in monochrome TFT technology with high luminance and extended viewing angle.</p> <ul style="list-style-type: none"> - 19" (48 cm) monitor. - Resolution: 1280 x 1024 pixels. - Guaranteed brightness for the entire service life: 400 cd/m² at a contrast ratio of 500:1 - Flicker-free and distortion-free image display. - Ambient light sensor for optimum adaptation of the image display to the room brightness.

Part No. / Product	Description
14427291 19" color display with video cable	<p>The Siemens 19" LCD color display features very high contrast even under very bright ambient light conditions. The Gamma curve was precisely adapted to the CIE/DICOM recommendation and is thus especially suited for gray scale display.</p> <p>LCD flatscreen display</p> <ul style="list-style-type: none"> - 19" (48 cm) screen size - Resolution: 1280 x 1024 (pixels) - Guaranteed brightness for the entire service life: 137 cd/m² at a contrast ratio of 300:1 - Flicker-free and distortion-free image display - Anti-glare screen <p>The controlled background lighting provides stable lighting throughout the entire product life cycle.</p>
14427295 Analog/digital video converter	<p>Using a connection kit, a VGA, DVI (up to a resolution of 1600 x 1200), SVideo, or BAS video signal is converted into a DVI-D video signal.</p> <p>Note: This kit can be used only if at least one VGA or DVI connection is available on the unit.</p> <p>It includes the following components:</p> <ul style="list-style-type: none"> - An analog - digital video converter
14427298 4x1 video signal distributor	<p>There are 4 DVI-D video inputs available. One of these video signals can be output on up to two DVI-D video outputs.</p> <p>Note: The video input to be displayed is selected on the patient table in the examination room using a touch-sensitive display.</p>
14407166 C-Room DVI 1xBWD-19 (Live) -36m	<p>19" high-contrast b/w display for live image display, as well as syngo operation in the control room. Table design with black frame.</p> <p>Display in monochrome TFT technology with high luminance and extended viewing angle.</p> <ul style="list-style-type: none"> - 19" (48 cm) monitor. - Resolution: 1,280 x 1,024 (pixel). - Guaranteed brightness for the entire service life: 400 cd/m² at a contrast ratio of 500:1. - Flicker-free and distortion-free image display. - Ambient light sensor for optimum adaptation to the room brightness.
04435868 LV analysis	<p>Scientific measuring program integrated in the imaging system for evaluation of the functionality of the left ventricle.</p> <ul style="list-style-type: none"> - Automated and manual contour detection. - Automatic end-diastole/end-systole detection. - Calculation of ejection fraction, volumes and indices (area, length and Simpson methods). - Centerline, radial and regional wall movement analyses - Automatic and manual calibration methods. - Distance and angle measurement.
04435843 Scientific QCA	<p>Scientific measuring program integrated in the imaging system for clinically validated, objective, accurate and reproducible evaluation of coronaries.</p> <ul style="list-style-type: none"> - Automated contour detection. - Determination of degree of stenosis. - Automatic and manual reference diameter determination. - Stenotic Flow Reserve - Automatic and manual calibration methods. - Distance and angle measurement.

Part No. / Product	Description
(Continued) 04435843 Scientific QCA	<p>QCA allows precise quantification under sterile conditions, direct at table side with the touchscreen control. This speeds up the intervention and makes the procedure safer for the patient. The reports can be easily stored in the patient folder for documentation and to show the correct analysis of dilatations etc. Especially to be used for vessel sizes between 1.5 mm and 7 mm.</p> <p>QCA (Quantitative Coronary Analysis) is based on the gold standard in coronary analysis: CAAS II (Cardiovascular Angiography Analysis System Mark II) from Pie Medical, Netherlands. The algorithms come from the Thorax Center of the Rotterdam Erasmus University. They are clinically validated and internationally recognized for scientific purposes (Multicentre Studies).</p>
04435801 Automap	<p>Optimized procedure workflow, especially during interventions is the result of the automap-function. A selected reference image displaying the needed medical information (e.g. before dilatation) is used as the basis for moving the system to the correlated position automatically. The intervention can be continued immediately without manually repositioning the patient. Vice versa, an already stored reference image for a dedicated system position is automatically displayed when automap is selected, making it easy to switch from one angulation to another with instantly available image information.</p>
04435926 DICOM HIS / RIS	<p>DICOM MWL (Modality Worklist): Import of patient/examination data from an external RIS/HIS patient management system.</p> <p>Note concerning DICOM interface(s) For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.</p> <p>The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).</p> <p>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.</p> <p>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.</p>
04435892 DICOM Print	<p>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.</p> <p>Note concerning DICOM interface(s) For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.</p> <p>The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).</p> <p>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.</p> <p>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.</p>
04443177 Handles with support (2pc.)	<p>In order to be able to move the image receiver (I.I. or flat detector) as closely as possible to the object during cardiological examinations, the patient's arms must be held in a specific position above his head. With this positioning aid the patient can hold on to the hand grips, his arms resting comfortably on the supports. The stainless steel hand grips and the radiolucent support are mounted to the accessory rails of the head-end holder.</p>

Part No. / Product	Description
14417134 LB rad. protection w/ pivot arm	<p>The lower body radiation protection can be attached to the accessory rails either on the right or on the left side of the patient positioning table. It consists of the following independent shielding units:</p> <ul style="list-style-type: none"> - A basic unit shielding the area between accessory rails and the floor. It is flexible and can be adapted to the examiner's preferences. - One LB radiation protection pivot swivel element that can move out of the way during collisions with the tube and still retain its protective function. - Two clip-on units pointing upwards from the upper edge of the basic unit with a length of 57 cm and 27 cm. <p>The scattered radiation shielding units can be attached to the basic unit in an overlapping and fan-shaped way to allow closed, adapted scattered radiation protection even in the lower thorax area. The maximum load of the accessory rails is 40 kg, the weight of the attached scattered radiation protection is 8 kg.</p>
14400179 Upper Body Rad. Prot. Artis-T	<p>Radiation protection attached via a ceiling-mounted, mobile stand for protection against scattered radiation; inc. 4 m ceiling rail.</p> <ul style="list-style-type: none"> - Swivable and rotatable around the fixed point, range of rotation 360°. - Counter-balanced, height-adjustable support arm. - Acrylic glass with Pb equivalent of 0.5 eq (w x h: 61 cm x 76 cm), with recess for interventional examinations.
14427095 syngo Keyboard, English - US	Keyboard for easy operation of <i>syngo</i> (browser, viewer, filming). There are special keys for windowing, scrolling, printing, marking and network communication.
14417219 VOLCANO s5i Cable Set	This cable set contains all cables for connecting the components at the patient table and the s5i imaging system in the control room.
14427173 Intercom - Comfort	<p>Communication / Intercom system for communication between examination room and control room, with additional footswitch for conversation selection in the examination room. Microphone and control box on the console in the control room. With adaptive acoustic filter for background noise suppression in the examination room. Microphone in the examination room installed on the ceiling.</p>
04453986 Body module	<p>The insert with accessory rails attached to the right and left slides over the outer edges of the patient positioning tabletop. It is locked in place through two locking bolts on either side. The part to be inserted underneath the tabletop consists of radiolucent carbon fibre material, which avoids disturbing edges in the image.</p> <ul style="list-style-type: none"> - load capacity of the accessory rails: 40 kg max. - length of the accessory rails: 45 cm.
14417135 LB rad. prot. w/ left pivot arm	<p>The lower body radiation protection can be attached to the accessory rails either on the right or on the left side of the patient positioning table. It consists of the following independent shielding units:</p> <ul style="list-style-type: none"> - A basic unit shielding the area between accessory rails and the floor. It is flexible and can be adapted to the examiner's preferences. - One LB radiation protection pivot swivel element that can move out of the way during collisions with the tube and still retain its protective function. - Two clip-on units pointing upwards from the upper edge of the basic unit with a length of 57 cm and 27 cm. <p>The scattered radiation shielding units can be attached to the basic unit in an overlapping and fan-shaped way to allow closed, adapted scattered radiation protection even in the lower thorax area. The maximum load of the accessory rails is 40 kg, the weight of the attached scattered radiation protection is 8 kg.</p>
M2ART700PEDL Mark 7 Arterion, Pedestal System	<p>The Arterion Mark 7 Pedestal contrast medium injector can be positioned anywhere at the patient positioning table on a mobile unit, for direct operation of all functions in the examination room.</p> <p>The injector system includes:</p>

Part No. / Product	Description
<p>(Continued) M2ART700PEDL Mark 7 Arterion, Pedestal System</p>	<ul style="list-style-type: none"> - A mobile pedestal stand with electronics unit, a contrast medium heater and a connection cable to the manual release. - A support arm with injector head and a control lever for moving the injector head. - A user control console with large touch screen and corresponding additional monitoring display on the injector head. <p>Functions</p> <p>Pressure limitation:</p> <ul style="list-style-type: none"> - for 150 ml syringes 689 to 8273 kPa, corresponds to 100 to 1200 psi. . <p>Flow rates for 150 ml syringes:</p> <ul style="list-style-type: none"> - 0.1 to 45 ml/s in increments of 0.1 ml/s - 0.1 to 59.9 ml/min in increments of 0.1 ml/min - rise/fall: 0 to 9.9 s in increments of 0.1 seconds <p>Release delay for injection or radiation:</p> <ul style="list-style-type: none"> - 0 to 99.9 s in increments of 0.1 s. <p>Adjustable volume for 150 ml syringes:</p> <ul style="list-style-type: none"> - 1 ml to the max. syringe capacity in increments of 1 ml. <p>Fill rate:</p> <ul style="list-style-type: none"> - Variable syringe filling speed 1-20ml/s. <p>Injection protocols:</p> <ul style="list-style-type: none"> - Up to 40 injection protocols possible. <p>Parameters currently displayed on the touch screen display and on the head display:</p> <ul style="list-style-type: none"> - Injection speed - Injection volume - Remaining volume - Injection duration - Applied pressure <p>Contrast medium heating:</p> <ul style="list-style-type: none"> - Nominal 35°C (95°F)+-5°C (9°F) <p>Injection data memory</p> <ul style="list-style-type: none"> - Up to 50 injection data items stored <p>Included in the scope of delivery</p> <ul style="list-style-type: none"> - Injector standard configuration 150 ml - SIEMENS interface cable - Operator Manual - Service manual (English). <p>Power supply 200 V to 250 V; 50/60 Hz.</p>
<p>EPW9390160UPS Eaton Powerware 9390 160 kVA UPS</p>	<p>Complete system backup without interruption. One UPS per lab.</p> <p>The Artis system will be supplied by the UPS with full power to all functions in case of power failure. The operation is not restricted to emergency fluoroscopy.</p> <p>Operation:</p> <ul style="list-style-type: none"> - In case of power failure, the complete Artis system is backed up without interruption to the system or any

Part No. / Product	Description
(Continued) EPW9390160UPS Eaton Powerware 9390 160 kVA UPS	<p>imaging functionality.</p> <ul style="list-style-type: none"> - Full system operation including fluoroscopy and acquisition are possible without interruption. There will be no interruption even in the case of a power failure in the middle of an acquisition. - No interruption to workflow - No re-boots required. - Additional advantage of an on-line power conditioner for complete system. - Includes UPS, battery, maintenance bypass panel, and one year on-site parts and labor coverage (24x7) by Eaton Powerware. <p>Battery power is supplied for a 10 minute backup at continuous full power. This should allow the lab to continue operation for at least 45 to 90 minutes in normal operation.</p> <p>This product has been tested and verified for compatibility with the following Siemens' products: Artis Zee. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.</p>
NT60010635 Blue anti-fatigue floor mat for hospital	<p>NT60010835 Interstate Mat Corporation Anti-fatigue Mat</p> <p>Industrial-grade anti-fatigue floor mat that provides comfort and durability. As a high-quality product designed to fight fatigue, it provides support for tired, aching feet, legs and back. Beveled edges for safety. Size 3'x5'.</p>
EPW935515UPS Eaton Powerware 9355 15 kVA UPS (Alternate)	<p>This UPS is recommended when protection and uninterruptible power is required for the C-arm and table. Emergency fluoroscopy is not available with this UPS. If emergency fluoroscopy is required, the 9390 – 160 kVA UPS is recommended for the full system. One UPS per lab.</p> <p>Operation:</p> <ul style="list-style-type: none"> - Since this UPS is working completely uninterrupted, a power failure is observed when no radiation is available and the display shows "No X-ray please wait". - The Emergency power lamp (red) will light on the power display during a power failure. All stand movements are possible and the image system functions are protected against data loss. Guaranteed back up time: 10 min. - Restoring of hospital's main power supply is indicated when the generator boots again (also green Hospital power lamp lights). Full exposures are available after approx. 75 seconds. <p>Includes UPS, battery, maintenance bypass panel, and one year on-site parts and labor coverage (24x7) by Eaton Powerware.</p> <p>This product has been tested and verified for compatibility with the following Siemens' products: Artis Zee. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.</p>
14427134 Detector 30x40 incl LaserCrossh.(T) (Alternate)	<p>Flat detector 30 x 40</p> <p>The digital high-resolution dynamic flat detector with integrated removable grid is especially designed to fulfill the requirements of angiographic and interventional applications.</p> <p>154 µm pixel arrays provide highest spatial resolution (3.25 LP/mm) 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 30 f/s are possible.</p> <p>Usable input formats:</p> <ul style="list-style-type: none"> - Overview mode 30 cm x 38 cm. - Zoom 1: 30 cm x 30 cm; diagonal 42 cm. - Zoom 2: 22 cm x 22 cm; diagonal 32 cm. - Zoom 3: 16 cm x 16 cm; diagonal 22 cm. - Zoom 4: 11 cm x 11 cm; diagonal 16 cm.

Part No. / Product	Description
<p><i>(Continued)</i> 14427134 Detector 30x40 incl LaserCrossh.(T) (Alternate)</p>	<ul style="list-style-type: none"> - Zoom 5: 8 cm x 8 cm; diagonal 11 cm. <p>The very compact design with integrated collision protection provides maximum C-arm angulation range for excellent patient access.</p> <p>The flat detector is mounted on a motorized rotating turntable at the C-arm. It can be rotated by 90°, so that it can be adjusted to landscape format or portrait format. Any angle in between can be adjusted. Motorized adjustment of the detector-patient distance.</p> <p>Digital data transfer from the detector to the imaging system is via a high-speed Gigalink fiber-optic cable.</p> <p>Removable grid: The grid can easily be removed, saving the user time in examinations not requiring a grid. For example in pediatrics, where dose reduction is especially important.</p> <p>Laser crosshairs: Laser crosshairs integrated in the cover of the flat detector and tableside operation for easier, quicker and dose-saving positioning of the patient.</p> <p>The 30 x 40 flat detector offers additional operating functions directly on the detector housing, such as angulation, FD rotation (cranial/caudal, RAO/LAO), and change of the focus-detector distance.</p> <p>Tube assembly MEGALIX Cat Plus 125/20/40/80-122GW 3-focus high-performance X-ray tube with flat emitter technology, metal center tube in lubricated spiral groove bearing technology for permanent, noise-free rotation.</p> <ul style="list-style-type: none"> - Maximum tube voltage 125 kV - Focus: 0.3/0.6 x 0.6*/1.0 (17/38/80 kW) - Anode angle 12° - Maximum anode heat storage capacity: 3,375,000 HU - Maximum tube current for fluoroscopy: 250 mA <p>* Image quality improved</p> <p>High tube power provides brilliant image quality even with heavier patients. In addition there is no need for X-ray pauses even during lengthy cases. The X-ray tube is completely silent, which is an additional benefit for patient and user.</p> <p>Angio collimator Compact multileaf collimator for DSA and cardiological applications with rectangular diaphragm, wedge-shaped filter diaphragms and finger-shaped graduated filter.</p> <ul style="list-style-type: none"> - Automatic synchronous rotation of detector and collimator unit to compensate image rotation in the different working positions of the gantry. - Manual rotation of the detector and collimator unit using the control right on the detector housing. - Five-step adaptive Cu pre-filtration (CAREfilter) to reduce the equivalent skin dose and improve radiation quality through dose saving for the soft radiation parts. Filter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu. - Independent rotation and shifting of filter diaphragms. - Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing, for acquisition of the dose-area product and the calculated patient entry dose (CAREwatch).