

Detailed Technical Specifications

Artis zee floor - latest version

Part No. / Product	Description
14417074 Combo Cardiology/Interv. Radiology	<p>The accessories include the following components:</p> <ul style="list-style-type: none"> - ECG cable clips - Arm cradles (pair) - Instrument tray
14417015 Artis zee floor (A)	<p>System configuration The single-plane 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 floor-mounted stand:</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 35° to the left side of the patient longitudinal axis. - Double oblique projections: LAO/RAO: ±130° cranial max. 55°, 52° with isocenter 12 cm above patient tabletop caudal 45° - Variable C-arm speeds up to 25°/s. - Variable source-to-detector distance between 90 cm and 120 cm. - Isocenter-floor distance 106 cm. - Focus-isocenter distance 75 cm. <p>Operation 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 of leaving the examination room. The intuitive tableside <i>syngo</i> operating elements allow for managing the whole process from preparation of the patient to image post-processing in a simple 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 operation using multi-functional joystick for operation of the imaging system, including post-processing and quantification as well as selection of the organ programs.</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>Displaying system data Data regarding system and table geometry, dose data with CAREwatch, as well as system messages, are shown at 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 interface.</p> <p>In order to provide highest level system availability, the imaging system comprises 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. This ensures the system performance will always meet the highest</p>

Part No. / Product	Description
<p>(Continued) 14417015 Artis zee floor (A)</p>	<p>possible demands.</p> <p>Image storage capacity 25,000 images in 1k/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.</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 center beam and the image edges in the LIH (Last Image Hold). CAREposition makes possible the repositioning of an object under visual control without radiation. In case of table movements the current position of the center 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. - CAREwatch: Display of the measured dose-area product and the calculated patient entry dose (CAREwatch) at the flat-screen display. 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>Configurable screens on the data display and imaging system monitor: During fluoroscopy: patient entry dose rate. During fluoroscopy interval: Accumulated patient entry dose or dose-area product or percentage of the dose limit (total dose from fluoroscopy and acquisition).</p> <p>The critical equivalent dose of the skin (skin dose) to avoid X-ray related skin injury is at about 2 Gy. CAREwatch consistently calculates and displays the actual accumulated skin dose (in percent). This helps the user to detect a potential patient hazard quickly and with certainty.</p> <ul style="list-style-type: none"> - 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: enables three skin dose thresholds to be established. If the accumulated skin dose exceeds the configured threshold, a warning appears on the live display and tableside at the touchscreen control. This provides ideal skin dose monitoring during the examination. <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. <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

Part No. / Product	Description
(Continued) 14417015 Artis zee floor (A)	<p>manual user corrections through windowing.</p> <ul style="list-style-type: none"> - 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>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. - Automatic and manual pixel shift, remask, peak opacification for iodine contrast (MaxOpac) and CO₂ contrast (MinOpac), adding of the anatomical background (landmark) from 0 to 100% (only in connection with DSA option). - Storing of single images as reference images also during fluoroscopy. - Quantification: angle/length measurement, 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 writer (DICOM) DVD drive for automatic digital image storage 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, 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 was successfully transferred. This provides the necessary safety 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. <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 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> <p>X-ray generator Microprocessor-controlled high-frequency X-ray generator with automatic dose rate control.</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. - 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

Part No. / Product	Description
(Continued) 14417015 Artis zee floor (A)	<p>based on fluoroscopic data.</p> <ul style="list-style-type: none">- Patient transparency monitoring.- Tube load monitoring with indication in the data display.- Generator operation fully integrated in the system operation. <p>The optimal X-ray parameters including appropriate kV-values depend on the transparency of the patient at the current angulation, measured during fluoroscopy. These parameters are continuously being calculated and updated. Test shots are no longer required. This ensures superior 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 SRS? 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* offers, e.g.:</p> <ul style="list-style-type: none">- initial application training,- interactive e-learning for many 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 and further details on general Customer Care. Life services on the Internet.</p> <p>* Not all services of the Customer Care. Life offerings are necessarily available for all systems.</p>
14417116 DSA / DR (1)	<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> <p>The 1k image matrix with a bit depth of 12bit 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>Unexpected patient movements 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>
14409413 Detector 30X40 incl.Comprts.(F)	<p>Flat detector 30 x 40 The digital high-resolution dynamic flat detector with integrated removable grid is especially designed to fulfill the requirements of angiographic and interventional applications.</p>

Part No. / Product	Description
(Continued) 14409413 Detector 30X40 incl.Compnts.(F)	<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. - 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. Automatic synchronous rotation of flat detector and collimator for compensating the image rotation is available. 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 125/20/40/80-122GW (for all countries except China) 3-focus high-performance X-ray tube assembly with flat emitter technology, metal center tube with 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>or tube assembly MEGALIX Cat 125/15/40/80-121GW (for China only) 3-focus high-performance X-ray tube assembly, metal center tube with lubricated spiral groove bearing technology for permanent, noise-free rotation.</p> <ul style="list-style-type: none"> - Maximum tube voltage 125 kV - Focus: 0.3/0.6/1.0 (15/40/80 kW) - Anode angle 12° - Maximum anode heat storage capacity: 2,000,000 HU - Maximum tube current for fluoroscopy: 170 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>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"> - 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. - Automatic synchronous rotation of detector and collimator unit to compensate image rotation in the different working positions of the gantry.

Part No. / Product	Description
(Continued) 14409413 Detector 30X40 incl.Compnts.(F)	<p>CAREfilter is intelligent control software that helps minimize X-ray dose without negative impact on image quality. The soft radiation is reduced, in particular. During fluoroscopy and acquisition, special copper prefilters are inserted fully automatically into the X-ray beam depending on current X-ray transparency calculated by CAREmatic.</p> <p>This is necessary to ensure that the optimal prefilter value is always active. For the user it would be too time consuming and therefore unacceptable to adjust prefiltration via manual operation.</p> <p>CAREwatch Display of the measured dose-area product and the calculated patient entry dose (CAREwatch) at the flat-screen display.</p> <p>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> <p>Configurable screens on the data display and imaging system monitor:</p> <ul style="list-style-type: none"> - During fluoroscopy: patient entry dose rate. - During fluoroscopy interval: Accumulated patient entry dose or dose-area product or percentage of the dose limit (total dose from fluoroscopy and acquisition). <p>The critical equivalent dose of the skin (skin dose) to avoid X-ray related skin injury is at about 2 Gy. CAREwatch consistently calculates and displays the actual accumulated skin dose (in percent). This helps the user to detect a potential patient hazard quickly and with certainty.</p>
14407239 Table with Tilt	<p>Floor-mounted patient positioning table designed 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. - $\pm 15^\circ$ Trendelenburg position. - Iso-tilt functionality for maintaining the projection during table tilt along the patient axis. - Motorized, power-dependent table movement in longitudinal direction when the table is tilted (power-assisted control). - Electromechanical release of table swivel by the push of a button at the table. - Telescopic foot with motorized height adjustment. - Maximum patient weight: 200 kg plus 40 kg of supplied accessories.
14407064 Tabletop(wide)/Mattress(thin)	<p>Tabletop made of carbon fiber in wide, straight design for universal use. The tabletop is straight all the way to the head area.</p> <p>Special foam mattress matching the tabletop for maximum comfort. This visco-elastic comfort mattress for the long and straight tabletop, reacting to temperature, has the special property of adapting to the individual body shape under the influence of body weight and heat.</p>
14407156 DCS 6 DVI 2xBWD-19 (Live+Ref+4xPrp)	<p>Ceiling-mounted, swiveling, rotating, height-adjustable display suspension system with longitudinal travel with two 19" high-contrast b/w displays for live and reference image display.</p> <p>Displays 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). - Maximum brightness (typ.): 1.000 cd/m². - Flicker-free and distortion-free image display. - Ambient light sensor for optimum adaptation to the room brightness.
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). - Maximum brightness (typ.): 1.000 cd/m².

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6681

SIEMENS REPRESENTATIVE
William Beckham - (610) 219-1219

Part No. / Product	Description
(Continued) 14407166 C-Room DVI 1xBWD-19 (Live) -36m	<ul style="list-style-type: none"> - 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 contour 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.
04435850 Vessel analysis	<p>Measuring program integrated in the imaging system for objective, precise and reproducible evaluation of vessels.</p> <ul style="list-style-type: none"> - Automated contour detection. - Determination of degree of stenosis. - Automatic and manual reference diameter determination. - Automatic and manual calibration methods. - Distance and angle measurement. <p>The vascular analysis 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 3mm and 42mm.</p>
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. <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>
04443516 MULTISPACE.F	<p>Manual stand rotation for free positioning of system and table relative to each other, for example for the following additional work positions:</p> <ul style="list-style-type: none"> - Left-side patient access. - OR work, standby and park position. - Orthogonal system control, along patient longitudinal axis.
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>

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6681

SIEMENS REPRESENTATIVE
William Beckham - (610) 219-1219

Part No. / Product	Description
(Continued) 04435926 DICOM HIS / RIS	<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.</p> <p>With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.</p>
14409318 Lower body radiation protection	<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.</p> <p>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. - Two clip-on units pointing upwards from the upper edge of the basic unit with a length of 57 cm and 27 cm. <p>Option: A third upward-pointing scattered radiation shielding unit that can be clipped onto the upper edge of the basic unit, with a length of 27 cm.</p> <p>The scattered radiation shielding units can be attached to the basic unit in an overlapping and fan-shaped way providing a closed, adapted scattered radiation protection even in the lower thorax area.</p> <p>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 through a ceiling-mounted, mobile stand for protection against scattered radiation; incl. 4 m ceiling rail.</p> <ul style="list-style-type: none"> - swivable and rotatable around the fixing point, swivel range 360 degrees. - counter-weighted, height-adjustable support arm. - acrylic glass with lead equivalent of 0.5 eq (w x h: 61 cm x 76 cm), with recess for interventional examinations.
14402079 3 Reflector OR Lamp, 115V	<p>The 3-spot OR lamp is additionally attached to the ceiling-mounted stand of the mobile radiation protection and is thus fully integrated in the ceiling-mounted radiation protection system of the AXIOM Artis family.</p> <p>The extremely high luminance is of special advantage for illuminating deep lesions, whereas the luminance would not be sufficient with single-spot OR lamps.</p> <ul style="list-style-type: none"> - luminance: 100,000 Lux (9,300 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: 17 to 28 cm - 3 halogen lamps: 22.8 V/50 W <p>Power supply OR lamp 115 V.</p>
14409254 C-Room Table Support Short	<p>Rail profile:</p> <ul style="list-style-type: none"> - Weight: 1.4 kg - Rail length: 12 cm - Width: 20 cm - Height: 14.5 cm
14407176 syngo Keyboard, English - US	<p>Keyboard for easy operation of syngo (browser, viewer, filming). There are special keys for windows, sheets, printing, marking and network communication.</p>

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6681

SIEMENS REPRESENTATIVE
William Beckham - (610) 219-1219

Part No. / Product	Description
14400179 Upper Body Rad. Prot. Artis-T	Radiation protection attached through a ceiling-mounted, mobile stand for protection against scattered radiation; incl. 4 m ceiling rail. <ul style="list-style-type: none"> - swivable and rotatable around the fixing point, swivel range 360 degrees. - counter-weighted, height-adjustable support arm. - acrylic glass with lead equivalent of 0.5 eq (w x h: 61 cm x 76 cm), with recess for interventional examinations.
14402079 3 Reflector OR Lamp, 115V	The 3-spot OR lamp is additionally attached to the ceiling-mounted stand of the mobile radiation protection and is thus fully integrated in the ceiling-mounted radiation protection system of the AXIOM Artis family. The extremely high luminance is of special advantage for illuminating deep lesions, whereas the luminance would not be sufficient with single-spot OR lamps. <ul style="list-style-type: none"> - luminance: 100,000 Lux (9,300 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: 17 to 28 cm - 3 halogen lamps: 22.8 V/50 W Power supply OR lamp 115 V.
04443243 Armholder (pair)	For Artis tabletops, the two arm holders help to laterally position the arms comfortably along the patient's body. They are slid laterally underneath the mattress, level with arms, and fixed by the patient's body weight. The patient's arms can be immobilized with commercially available fixing straps. Two pairs of arm holders of different length and height (matching the mattress height) are supplied, that are suitable both for thick and thin mattresses.
AXA_INITIAL_32 Initial onsite training 32 hrs	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.
AXA_FOLLOWUP_12 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.
AXA_ADD_32 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.
10080968L MEDRAD Avanta Rack Mount Injector	The MEDRAD Avanta Fluid Management System provides safety, precision and efficiency. It is intended to help cardiovascular and vascular healthcare professionals improve patient and operator safety and create precise clinical outcomes. Improved safety for the patient and the operator through precise fluid delivery, air management: fluid level sensing and gross air detection, and accurate injection pressure control with user-adjustable pressure limits. Precision through bolus sharpness delivering exact variable and fixed contrast volumes via a hand controller. Easy to read, intuitive color graphical user interface with on screen-tutorial for simplified set-up, optional single-patient and multi-patient disposables (up to five patients) for quick connection and priming eliminating manifold handling.

Part No. / Product	Description
(Continued) 10080968L MEDRAD Avanta Rack Mount Injector	<p>System Description Motor driven pump to delivery radio-opaque contrast in either a variable for fixed flow mode, and motor driven pump to provide fixed flow saline.</p> <ul style="list-style-type: none">- Contrast volume range: 150 ml.- Low flow/low pressure, variable contrast injections for coronary imaging: Contrast Flow Mode variable 1 to 10ml/s.- High flow/high pressure selectable fixed contrast injections for cardiac procedures such as left ventriculo-grams: Contrast flow mode fixed: 1 to 45 ml/s.- Fixed rate flow for saline flushing: 1.25 ml/s.- Selectable pressure increments: 300 to 1,200 psi.- Adjustable rise time: 0.1 to 9.9 seconds.- Contrast syringe refill: user selectable 25 to 150 ml, increments of 25 ml, refill rate 2.75 ml/s.- Tabulation of contrast volume delivered throughout the procedure.- 40 customizable injection protocols that can be stored and retrieved.- Automatic Hemodynamic monitoring.- Gross air detection, contrast and saline: visual indicators (fluid dots), check for air prompts.- Backlight of fluid path.- Fluid assurance, contrast and saline: active RF sensor.- Color graphic display with touch screen.- Operator alerts: contrast empty, contrast valve failure, peristaltic over torque, forward limit, gross air column detection. <p>Power supply 90 to 125 V~, 190 to 240 V~, 50/60 Hz; 15 A</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>
14409353 Sensis XP Interface (Artis zee)	<p>The bidirectional communication between Sensis XP recording system and the Artis cathlab allows automatic patient registration at the Artis via transfer of patient demographics from Sensis XP. Thus, there is no need for manual registration any more. This saves time and increases data safety because wrong data entries (e.g. typos) won't be possible any longer. In addition, Artis will send its exam data (see below list) back to the Sensis XP so they can get included in Sensis XP exam report.</p> <p>Transfer of patient demographics, study results and measurements like:</p> <ul style="list-style-type: none">- Acquisition time- Plane- RAO/LAO angle- Cran./Caud. Angle- SID- Magnification- Mode- Frame frequency- Pulse width- Time of scene- Focus- Total area dose- Fluoroscope time- Average Fluoro voltage

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6681

SIEMENS REPRESENTATIVE
William Beckham - (610) 219-1219

Part No. / Product	Description
(Continued) 14409353 Sensis XP Interface (Artis zee)	- Average fluoro current