

SIEMENS

Siemens Medical Solutions USA, Inc.
51 Valley Stream Parkway, Malvern, PA 19355
Fax: (866) 306-6685

SIEMENS REPRESENTATIVE
Jonathan Wilson - (770) 993-2490

Quote Nr:	1-J9TQM Rev. 3
Terms of Payment:	00% Down, 80% Delivery, 20% Installation Free On Board: Destination
Purchasing Agreement:	DSCP / VA Multimodality DSCP / VA Multimodality terms and conditions apply to Quote Nr 1-J9TQM

Artis zee ceiling - latest version

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

Qty	Part No.	Item Description	Extended Price
1	14417062	Universal interventional radiology X ray ang ography system with primary c nca use n ntervent ona rad ogy, nc ud ng app cat on spec f c accessor es.	
1	14417051	Artis zee ceiling (A) Un versa ce ng mounted C arm ang ography system with a h gh reso ut on fat detector. The powerfu 100 kW generator and MEGALIX Cat P us X ray tube with ts new fat em tter techno gy are the prerequ tes for exce ent mage qua ty. The CLEAR funct ona ty to opt m ze the mage mpress on, the CARE package to reduce rad at on exposure, and DICOM standards are a nc uded. The system has been prepared for S emens Remote Serv ce.	
1	14417019	Sys SW incl DSA/DR (1) Imag ng system software nc ud ng d g ta subtract on ang ography and d g ta acqu st on techno gy n 1k/12 b t matr x.	
1	14411218	Radiology Rad ograph c system for med ca app cat ons with emphas s on ntervent ona rad ogy.	
1	14417055	XWP w. InSpace 3D FlashRT zee/zeego syngo X Workp ace h gh end post process ng workstat on, compr s ng W ndows XP PC with syngo based user software and network modu es, equip ed with the requ red HW and SW modu es for rea t me 3D reconstruct on to v rtua y e m nate the t me between the acqu st on of a rotat ona ang ograph c exam nat on and the dsp ay of the correspond ng 3D reconstructed vo ume n the InSpace task card of the syngo Workp ace: syngo X Workp ace, syngo InSpace 3D F ash RT (nc . syngo Dent fy), InSpace 3D accessor es as we as the syngo P ot opt on to over ay ca cu ated 3D reconstruct ons with ve 2D fuoroscopy mages.	
1	14402025	DynaCT Package syngo DynaCT offers cross sect ona mag ng n the ntervent ona su te from project on mages of rotat ona ang ography by an Art s FD system. syngo DynaCT prov des exce ent soft tssue mage qua ty (512 matr x) for neuro and body mag ng. Abdom na soft tssue mages are reconstructed with n 30 seconds, and neuro soft tssue mages n ess than one m nute.	
1	14417056	iPilot functionality for XWP syngo P ot (enhanced funct ona ty) a ows the over ay of the co ored 3D vo ume with regu ar fuoro as we as with subtracted fuoro (Roadmap) and acqu st on ser es on the dsp ay of the syngo Workp ace. Thus the P ot nformat on s ava abe n para e to the regu ar or subtracted fuoro or acqu st on mages on the ve dsp ay of the acqu st on system. syngo P ot automat ca y updates a tab e, c arm, zoom and SID changes. Even pat ent movement can be manua y updated.	

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Qty	Part No.	Item Description	Extended Price
1	14417057	syngo iGuide w/ InSpace 3D3D Fusion syngo Guide provides live and integrated needle guidance for interventional procedures such as vertebroplasties, kyphoplasties, biopsies, drainages or radiofrequency ablations. syngo Guide takes advantage of the very good patient access on a C-arm based angio system. This enables easy planning and monitoring of complex needle procedures requiring a double oblique needle path. syngo InSpace 3D/3D Fusion package for spatial alignment and visualization of image data of a patient where image data has been generated at different points in time by different modalities. Support of optimal diagnosis (fusion of morphology and functional information) and therapy planning.	
1	14409272	syngo iGuide Toolbox syngo Guide Toolbox contains the functions 'Linked Marker', 'Linked Pointer' and 'Linked Contours' that provide tools that take graphics drawn on the 3D volume and simultaneously display it on the live monitor. These graphical markers allow pretreatment planning on the syngo 3D workstation by marking spots or areas on the 3D volume. The graphics are linked in real time for display on the live image monitor.	
1	14402033	19in Color Flatscreen Display LCD color flatscreen display with high luminance and extended field of view.	
1	14401876	Inroom Control SW-License Software extension for InSpace 3D and InSpace EP for remote control of the syngo Workspace from the examination room via touch panel and joystick.	
1	14401900	InSpace 3D Stenosis Measurement InSpace 3D Stenosis measurement to determine the degree of stenosis.	
1	14401878	syngo Angio Package Software package consisting of DSA Angio Viewer as well as High Speed Review for real time display of native and subtracted angiography images.	
1	14411210	syngo iFlow syngo Flow enables color images of a complete DSA scene to be calculated and displayed. As a result, contrast agent flow can also be visualized, supporting image evaluation.	
1	14401891	syngo 3D Basic SW-License Basic 3D viewer platform for display of 3D series with Multiphase Reconstruction (MPR), Surface Shaded Display (SSD) and Maximum Intensity Projection (MIP).	
1	14411303	syngo Scene Compare incl. Biplane Dual monitor support with biplane review functionality for the postprocessing of DSA scans. An optional monitor supports the evaluation of biplanar scans in synchronized mode and can also be used to compare scans to single images. This also enables the dynamic comparison of two scenes.	
1	14402033	19in Color Flatscreen Display LCD color flatscreen display with high luminance and extended field of view.	
1	04472853	syngo keyboard, USA Keyboard with special syngo keys.	
1	04451022	Customer documentation, English	
1	14417382	VA Kit for syngo XWP VB15 Second documentation set for delivery to the Veterans' Affairs Administration Hospitals in the U.S.	
1	14409273	syngo Expert-i Expert enables the physician to interact with the syngo Workspace from virtually anywhere in the hospital.	
1	14411305	DICOM Attribute Converter Individual software /XML files, to solve compatibility problems.	

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Qty	Part No.	Item Description	Extended Price
1	AXA_INITIAL_32	Initial onsite training 32 hrs	
1	AXA_ADJ_GO V_32	Offset Initial Training 32 hrs	
1	14409307	3D Acq. incl. DYNAVISON DSA/DR Native or subtracted (with DSA option only) rotational angiography with angle triggering, generating the image data required for 3D reconstruction.	
1	14411353	Detector 30x40 incl LaserCrossh.(T) High resolution, dynamic flat detector for fluorographic imaging, with integrated, removable grid and laser crosshairs as a post on grid. CAREwatch measuring chamber for detection of the dose area product. MEGALIX 3 focus high performance X ray tube assembly, rotatable angiocatheter mounting CAREfilter, and integrated collision protection.	
1	14404984	PERISTEPPING / PERIVISION Periphereal digital angiography with stepping and online subtraction display.	
1	14407239	Table with Tilt Floor mounted swivel patient table with telescopic foot, floating and tilt table tabletop; motor driven stepping for digital periphereal angiography. Table control module, power assisted.	
1	04435140	Table Top & Mattress, Narrow Carbon fiber tabletop in narrow design with head end recess, including matching spec foam material mattress. Mattress including cover.	
1	14402010	Foot Switch Monopl.(Wireless) For release of fluoroscopy, exposure and table brake as well as a configurable addtional function. Wireless connection via radio communication.	
1	14411259	Large Display with DCS extended Large area 56" color flat screen display with cabinets for monoplane systems in the examination room, installed on a ceiling mounted, longitudinal mobile, swivel, rotating, and height adjustable display suspension system (DCS extended) with an enhanced working range. A video controller (MDM) that can process up to 21 video inputs. With integrated selection of up to 12 display configurations via the ECC.	
1	14411287	Ceiling Rail Extension (1) Rails for extending the longitudinal travel range of the display suspensions system by 1.2 m.	
1	14417127	LD complete internal video source Contains all required connections for connecting internal video signals for the Sens Large Display, the MM/X Workpace A/B, analog VGA video signals, and patient monitoring (Dräger only).	
1	14417129	LD Input external IR/CARD/NEURO kit Contains all required connections to connect the external analog and external digital video signals for the Large Display in IR / CARDIAC / NEURO applications.	
1	14411267	LD Workplace Joystick/Mouse Addtional, dedicated joystick in the examination room for precise and fast control of the syngo Workpace dentca to mouse operation in the control room.	
1	14417358	LD Downscaler Quad HD to Full HD The quad HD video signal of the Large Display is converted to the common full HD video standard in this video standard converter. This signal then can be used for a common full HD video components. Optional so attached part of the downscaler.	
1	14417302	LD Bypass Display (rear) Monochrome 19" replacement display incl. 36 m cable and transceiver for display installation on the rear of the DCS for the Large Display. A replacement display always has to be available in case an error occurs in the imaging chain of the Large Display.	

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Qty	Part No.	Item Description	Extended Price
1	14417060	ACE Cable Set in Equipm.Room Image system interface to the displays in the control room of the image system is installed in the equipment room.	
1	14407166	C-Room DVI 1xBWD-19 (Live) -36m One monochrome 19" flat screen display with blue background color.	
1	04435850	Vessel analysis Vessel analysis with determination of degree of stenosis, distance measurement and calibration.	
1	14411163	Fluoro Loop (1) Storage and review of dynamic fluoroscopic sequences (Fluoro Loop). The maximum storage of fluoroscopy time depends on the selected pulse rate, e.g. 17 s at 30 p/s, 34 s at 15 p/s.	
1	04435801	Automap Automatic stand positioning depending on the selected reference image and automatic reference image selection depending on the stand positioning.	
1	04435926	DICOM HIS / RIS Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Work list).	
1	04435892	DICOM Print Provision of DICOM Print service for connection to a laser camera or a network printer (postscript).	
1	14417134	LB rad. protection w/ pivot arm For shielding the lower body against scattered radiation within the examiner's moving range. Specifically designed for avoiding collisions with the tube during oblique projections, therefore especially suited for cardiology.	
1	14400179	Upper Body Rad. Prot. Artis-T To protect the upper body against scattered radiation within the operating range of the examiner, e.g. during interventional procedures.	
1	04443383	Examination lamp, 115 V Ceiling mounted examination lamp, flexibly adjustable towards the user, for diagnostics and minor surgery.	
1	14407252	Interface for C-Room Operation(MA) Interface for connecting the optional system control from the control room.	
1	14409254	C-Room Table Support Short Ramp for hanging control modules (e.g. the table module) in the control room.	
1	14409444	Control room emerg. stop module Safety button for switching off a system functions from the control room.	
1	04443433	Handswitch Additional hand switch for radiation on release and additional control functions.	
1	04443615	Control Room Injector Interface Interface for controlling the contrast medium injector from the control room.	
1	14407176	syngo Keyboard, English - US Keyboard with specific syngo keys.	
1	04452517	Tabletop, Wide Carbon fiber patient positioning tabletop wide with straight design up to the head end for universal angiographic applications and maximum comfort even for obese patients. Including set of body straps with three Velcro straps for securing and compressing the patient.	

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1	04452475	Mattress for Tabletop, Wide Matching, specific foam mattress, 8 cm, made of open pore polyurethane material. Mattress encased in cover.	
1	04443243	Armholder (pair) Two arm holders for comfortable lateral arm positioning along the patient's body.	
1	14400182	Connector Panel Connector panel for installation on the Artis table base for plug connection of country specific type (USA/Canada).	
1	14417083	VA kit Artis zee systems Second set of documentation for delivery to the Veterans' Affairs Administration Hospital in the U.S.	
1	04430133	Intercom Intercom system for communication between examination room and control room.	
1	04451022	Customer documentation, English	
1	14405115	Preinst.Visual GW Artis-T(mono)	
1	04499138	Pre-install Artis table, std	
1	AXA_INITIAL_32	Initial onsite training 32 hrs	
1	AXA_FOLLOWUP_12	Follow-up training 12 hrs	
1	AXA_ADD_24	Additional onsite training 24 hours	
2	AXA_GOV_CLS EPW935515UPS	GOVT Training Class (T & L not included)	
1	S	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 uninterrupted 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 table.	
1	NT60010835	Grey anti-fatigue floor mat for hospital	
1	O4RIDGESPLUS	PERI BOLUS KIT	
1	AXA_RIG_ZEE SP_GOV	Standard Rigging zee SP	
		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	AXA_BIOMED_TRN	TWO SETS OF SERVICE AND OPERATORS MANUALS	
1	AXA_MISC_MATERIAL	Additional Biomedical Training AX1RSBASIC- 10 days Roentgen System Basics/ Intro to flat detectors	
1	AXA_MISC_MATERIAL	Round trip Airfare for Additional Biomedical Training, ATL to RDU	
1	AXA_MISC_MATERIAL	Lodging for Additional Biomedical Training @ /night X 10 nights	
1	AXA_MISC_MATERIAL	Round trip Airfare for Complimentary Biomedical Tuition ATL to RDU	

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Qty	Part No.	Item Description	Extended Price
1	AXA_MISC_MATERIAL	Lodging for Complimentary Biomedical @ /night for 34 days =	
1	AXA_ADDL_RIGGING	Additional Rigging/Out of Scope AFTER HOURS DELIVERY (& LONG DISTANCE	
1	AXA_ADJ_GO_V_32	Offset Initial Training 32 hrs FROM DOCK TO ROOM ?)	

Detailed Technical Specifications

Artis zee ceiling - latest version

Part No. / Product	Description
14417062 Universal interventional radiology	<p>The accessories include the following components:</p> <ul style="list-style-type: none"> - Arm cradles (pair) - Instrument tray
14417051 Artis zee ceiling (A)	<p>System configuration</p> <p>The single plane C arm system for digital acquisition techniques 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 side and variable up to 135° to the left and right side along the patient longitudinal axis. - Double oblique projections of ±100° 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 (± 135°) 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 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. - Isofit function to maintain projection during table tilt longitudinal direction (depending on table type). <p>Operation</p> <p>An ideal workflow requires full user operation capabilities under sterile conditions at table side. That way the user is able to operate the system by himself without the need of leaving the examination room. The intuitive table side syngo 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 features syngo based operation using multi functional joystick for operation of the imaging system, including post processing and quantification as well as selection of the organ programs. The touchscreen is specifically configurable to individual clinical requirements.</p> <p>In the control room: Standard Siemens syngo control via keyboard and mouse for all imaging system functions such as image post processing, archiving and configuration of organ programs.</p> <p>Displaying system data</p> <p>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</p> <p>High resolution digital imaging system with CLEAR technology, DICOM network connection and syngo user interface.</p>

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Part No. / Product	Description
<p>(Continued) 14417051 Artis zee ceiling (A)</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 always meets the highest 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 mode: 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 Application 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 on exposure, especially during interventional procedures. - CAREprofile: Radiation free positioning of the primary and semi-transparent diaphragms by means of graphical 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 graphical 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: Intelligent control software that helps minimize X-ray dose without negative impact on image quality. During fluoroscopy and acquisition specific 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 entry dose (CAREwatch) at the flat screen display. Electron counter 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 injuries 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 video display and tabes de at the touchscreen control. This provides dead 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. This creates an integrated DICOM data set consisting of images and dose information, which be

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<p>(Continued) 14417051 Artis zee ceiling (A)</p>	<p>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> <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. - CLEARvesse: 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, electron display (shutter), image shift (rotation), vertical and horizontal image inversion, magnifying glass, and zoom functions. - Storage of single images as reference images as 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, automatic and/or manual calibration. - Text functions: user definable image annotation, free annotation or by means of text components, comments for the image, R/L display. - Fast and direct access to 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 offline 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 was 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. A ready 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 a 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 downloaded from the Internet is exclusively binding for the functionality of the DICOM interface(s).</p> <p>Functions 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>

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(Continued) 14417051 Artis zee ceiling (A)	<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 Mega x tube and the newest flat emitter technology. - SID tracking (automatic tube current adaptation to source to image receptor distance). - Automatic X ray control system CAREMATIC for fully automatic calibration 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 including appropriate kV values depend on the transparency of the patient at the current angulation, measured during fluoroscopy. These parameters are continuously being calibrated and updated. Test shots are no longer required. This provides excellent image quality and minimum radiation on 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"> - individual application training, - interactive e-learning for various applications, - free customer magazines, - arrangements for continuous training via a global network, - and free travel expenses <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>* Not all services of the Customer Care. Life offerings are necessarily available for all systems.</p>
14417019 Sys SW incl DSA/DR (1)	<p>Imaging system software including digital subtraction angiography</p> <ul style="list-style-type: none"> - with frame rates of 0.5 to 7.5 f/s, - including pixel shift, remask, roadmap, peak opacity control for iodine contrast (MaxOpac), and CO₂ contrast (MinOpac); - adding of the anatomical background (landmark) from 0 to 100%; - acquisition, display and storage in 1k matrix. <p>Digital acquisition technology</p>

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Part No. / Product	Description
(Continued) 14417019 Sys SW incl DSA/DR (1)	<ul style="list-style-type: none"> - n 1k/12 b t matr x and w th d g ta rea t me f trat on, - s ng e mage and ser a acqu s t ons between 0.5 f/s and 7.5 f/s w th t me contro ed and manua y var ab e mage frequency.
14417055 XWP w. InSpace 3D FlashRT zee/zeego	<p>The software funct ona ty can be extended to su t spec f c user or c n ca needs n ang ography, card o ogy, fuoroscopy, and rad ography by add ng opt ona app cat on modu es. The use of the censed software nc ud ng opt ona programs s m ted exc us ve y to the spec f c syngo X Workp ace nc uded w th th s order or the or g na workstat on order.</p> <p>syngo X Workp ace s a syngo based postprocess ng workstat on for ang ography, card o ogy, fuoroscopy, and rad ography conf gured as a DICOM connected standa one system. The workstat on s dea for prov d ng add t ona or spec a st c n ca workp aces.</p> <p>The base v ew ng system can be extended by add ng a w de range of app cat on opt ons.</p> <p>syngo X Workplace PC H gh performance workstat on based on W ndows XP Profess ona w th upgraded 8/12 GB RAM and hard dr ve w th 147 GB/300 GB for mage data. The workstat on s equ pped w th an Open GL acce erator board to support 3D app cat ons. To exchange med ca mages on DICOM compat b e CD Rs and DVDs, the system s equ pped w th a CD/DVD burner.</p> <p>syngo X Workp ace can be connected to an ex st ng network v a G gab t/100 Mb t Ethernet.</p> <p>syngo X Workplace Basic User Software The syngo X Workp ace software features an ntut ve and thus easy to earn user nterface deve oped from prototypes tested n c ose cooperat on w th users.</p> <p>Standard funct ons such as f m ng or mage rev ew, and opt ona c n ca app cat on software, are performed n nd v dua processes on ded cated task cards. A number of funct ons and nput parameters, as we as the anguage used, can be se ected accord ng to nd v dua requ rements.</p> <p>Package comprising the following software licenses Bas c software w th CD and dong e for the fo ow ng funct ons:</p> <ul style="list-style-type: none"> - Pat ent Browser - F m ng - V ewer - System serv ces <p>Pat ent Browser:</p> <ul style="list-style-type: none"> - Pat ent management. - DICOM commun cat on w th Send, Rece ve, Query/Retr eve, Pr nt. - Read ng of CDs/DVDs. - Modu e for wr t ng DICOM CDs/DVDs for data exchange. Wr t ng s n background mode. <p>F m ng: A v rtua f msheet shows a 1:1 d sp ay of the f m sheets to be pr nted. Th s perm ts an effect ve prev ew of the f m ng job and the w ndow ng of mages, as we as prov d ng a arge number of eva uat on funct ons.</p> <p>Image Rev ew: Image Rev ew supports nteract ve 2D rev ew, eva uat on and documentat on funct ons. Mu t p e stud es from the same pat ent can be d sp ayed s de by s de for compar son.</p> <ul style="list-style-type: none"> - Image d sp ay: 1.024² screen matr x, conf gurab e w th up to 64 mage segments. - CINE D sp ay: Automat c or nteract ve dynam c presentat on techn que for the v sua zat on of t me and vo ume ser es. - Synchron zed v ew ng of mu t p e ser es. - Measurement and annotat on: Text annotat on; d stance, ang e, c rc e, ROI and p xe ens, depend ng on nformat on ava ab e from the acqu s t on system. <p>System serv ces: M crosoft Off ce 2003 Word, Exce , PowerPo nt p us Out ook are supported (not prov ded!).</p>

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Part No. / Product	Description
<p>(Continued) 14417055 XWP w. InSpace 3D FlashRT zee/zeego</p>	<ul style="list-style-type: none"> - Any user selectable feature, such as cardiac, DSA or InSpace AVI video sequences, can be burned to CD to prepare quality presentations and demos of pathologies. - Network module: For connection to a local Ethernet (Gigabit or 100 Mb/s) for communication with networked archives, printers, diagnostic and therapy workstations, and tele-diagnostic routers. <p>Scope of functions</p> <ul style="list-style-type: none"> - Network stations can be configured. - Unlimited selection of stations. <p>syngo InSpace 3D Flash RT syngo InSpace 3D Flash RT facilitates the interactive 3D reconstruction and visualization in real time of a volume in volume rendering technique, MPR, and MIP. InSpace 3D is focused to support the interventional radiologist and neuroradiologist in the angiography.</p> <p>Based on dedicated accelerated hardware the primary reconstruction results are available in full diagnostic quality in the examination room within 18 seconds for high contrast images and less than one minute for soft tissue DynaCT images. Subsequent secondary reconstructions are available even faster.</p> <p>The application facilitates interactive volume rendering accelerated by a high end graphics card. It offers support for large data records of up to 1,600 images (512 x 512 matrix).</p> <p>syngo iDentify (Dual Volume Visualization) Enables the differentiation between two high contrast 3D objects that have virtually the same contrast density and allows the display of one low contrast and one high contrast volume in one view. syngo iDentify allows for clear differentiation between contrast filled vessels, bones, stents, and coils. Furthermore, visualization of the anatomical structure of tumors in combination with the feed-in vessels is possible.</p> <p>Features:</p> <ul style="list-style-type: none"> - Reconstruction protocols, for visualization of vessels, bones, coils and coils. - The result of the reconstruction can be native or subtracted. - Modification of reconstruction area to allow zoom via reconstruction. - Visualization with shading and light source for an improved three dimensional impression. - Interventional volume measurement. <p>Image data:</p> <ul style="list-style-type: none"> - Volume data from AX, CT, MR, and PET modalities. - Loading of two volume data sets simultaneously. - Layouts: single (1on1), double (2on1) and quadruple (4on1) for MPR display. - Two displays are supported for simultaneous display of two volumes side by side <p>Image display modes:</p> <ul style="list-style-type: none"> - VRT, Coor VRT, MIP, MIP and MPR rendering. - Thin slice renderings for VRT, MIP and MIP. - Variable light source. - Shading effects. <p>Volume editing:</p> <ul style="list-style-type: none"> - Cut planes. - Editing of clip planes and control volumes. - ROI punching. <p>Presets:</p> <ul style="list-style-type: none"> - Series specific bookmarks, to store and retrieve volume visualization parameters. - Global presets for series unspecific application of volume visualization parameters. <p>Output:</p> <ul style="list-style-type: none"> - Rad ranges, including macro range definitions.

Part No. / Product	Description
<p>(Continued) 14417055 XWP w. InSpace 3D FlashRT zee/zeego</p>	<ul style="list-style-type: none"> - 2D and 3D measurements, measurement grid, distance measurement and annotations. - AVI format export with selective compression format and compression ratio. - TIFF, PNG, BMP, JPEG image export. - Send to film sheet. <p>Advantages and features of InSpace 3D Flash RT In angiography the three dimensional information is used for diagnosis, planning of therapy and documentation in the field of endovascular and non endovascular interventional procedures.</p> <p>Diagnosis and treatment can be performed in one session, thus providing a major advantage through the fully integrated workflow.</p> <ul style="list-style-type: none"> - Transfer of the projection angle to the C arm stand. - Indication whether the angulation can be achieved at the C arm without collision with the patient or table. - Interventional volume measurement. <p>InSpace 3D accessories Includes the accessories required for 3D reconstruction and visualization:</p> <ul style="list-style-type: none"> - Plexiglas bracket on phantoms - Line phantom for image quality control - Form folder - 3D data link <p>syngo iPilot For any projection, zoom, SID and table position the physician can create an "Pot" view, which is superimposed on the live fluoroscopy image. Via a fade with the joystick the degree of visibility can be determined. The physician can perform the procedure with more confidence. No extra contrast is needed to make the vessel tree visible.</p> <p>When the guidewire is visible on the live screen in the area the 3D reconstruction, the physician can press the "Pot" button on the tableside control at any time. An image is automatically calculated and sent to the reference storage of the imaging system. Via the Overlay Fade function the physician can show the 3D and 2D live information on one image.</p> <p>DICOM Industrial standard for the transmission of information between DICOM compatible equipment from different manufacturers. The scope of functions is described in detail in the DICOM Conformance Statement and in the standard version includes the Transmission/ Reception, Query/ Retrieve and Basic Print functions.</p> <p>Note concerning DICOM interface(s) For diagnostic purposes, on any 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>Functions 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>Note on software usage The use of the licensed software, including optional programs, is limited exclusively to the specific syngo X Workplace included with this order or the original workstation order.</p>
<p>14402025 DynaCT Package</p>	<p>syngo DynaCT is especially suited to support radiologists and neuro radiologists during interventional procedures in the angiography suite with both endovascular and non endovascular procedures. Providing enhanced decisions on making during oncology procedures such as chemoembolization and RF ablations, spinal procedures. In neuroradiology syngo DynaCT allows the visualization of bleedings, the ventricular system of the brain and microstent placement.</p> <p>With syngo DynaCT it is possible to visualize a density difference of 10 HU (Hounsfield Units) of an object 5 mm in</p>

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Part No. / Product	Description
(Continued) 14402025 DynaCT Package	size of 5 HU of an object 10 mm in size in a Thick MPR display. (Measured with a CATPHAN 16 cm CT phantom with CTP 515 module.)
14417056 iPilot functionality for XWP	syngo iPilot Workflow In preparation for Pilot guided intervention, the physician typically performs a 3D reconstruction to visualize the vessel tree or an anatomical structure as a volume. Upon selection of Pilot, the 3D reconstruction is overlaid with the live image. The degree of visibility of the 3D volume can be modified by the user. Patient movements can be compensated by adjusting the 3D volume accordingly.
14417057 syngo iGuide w/ InSpace 3D/3D Fusion	<i>syngo Guide</i> provides a menu guided intuitive 3 step approach for consistent needle results: Step 1: Definition and check of the needle path on a DynaCT or external CT data set. Step 2: Check of automatic proposed progression views that will be used for monitoring the needle procedure. Step 3: Alignment and progression of the needle under fluoroscopic control while the planned needle path is overlaid on the live image of the acquisition system. Easy switch between the defined progression views to control the real needle position and direction. Subsequently, a control scan can be performed using <i>syngo InSpace 3D/3D Fusion</i> . <i>syngo DynaCT</i> , CT, or MR images are accepted for the image fusion. Studies can be done with the same modality or with different modalities. Registration Algorithms: <ul style="list-style-type: none"> - easy to use visualization alignment with 6 degrees of freedom (3x translation, 3x rotation) - landmark based registration with convenient landmark editor for point based registration using anatomical landmarks - storage of transformation matrix with datasets after registration for later reevaluation Visualization Techniques: <ul style="list-style-type: none"> - Side by side visualization of both data sets with correlated pointer and correlated scrolling with dog ears - 2D playback ending in monochrome or pseudo color with adjustable balance between the two superimposed data sets.
14409272 syngo iGuide Toolbox	Linked Marker 'Linked Marker' is used to display a graphical reference overlaid to the live image marking an anatomical structure that is visible in the 3D volume or marking the pathway for a puncture to guide the needle. The 'Linked Marker' tool places points or lines onto the 3D data set. Placement can be performed either in the MPR view or directly in the VRT view. Either a selected graphical element may be overlaid on the current live image Fluoro, Roadmap or Acquisition in order to support the user during an intervention. Modifications such as e.g. moving, resizing, deleting any selected graphical elements are possible. 'Linked Marker' graphical elements may be saved with the 3D data set. That means these points and lines can be archived for later review with the 3D data. Linked Pointer 'Linked Pointer' displays the current mouse cursor position on the 3D volume and matches the corresponding position on the live monitor. With 'Linked Pointer' function selected, a cursor movements in the InSpace MPR view are simultaneously shown at the corresponding position in the 2D image on the live monitor. Linked Contours 'Linked Contours' displays a graphical outline on the live monitor to indicate the shape or contour of the 3D volume displayed on the <i>syngo Workpace</i> . It may be used to give the user a hint of the 3D volume on the live monitor, e.g. a stent or a coil basket.

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Part No. / Product	Description
(Continued) 14409272 syngo iGuide Toolbox	<p>Selecting the function 'Linked Contour' will generate a graph displayed of the outlines in the 3D volume and overlay it on to the image. Fluoro, Roadmap or Acquisition on the view monitor.</p> <p>The displayed contours are dependent on the current rendering settings (VOI, punching, windowing, transparency) of the displayed volume.</p> <p>Geometric changes (standing up, zoom size, SID, table positions) will automatically result in an update of the displayed graphics on the view monitor.</p>
14402033 19in Color Flatscreen Display	<p>The Siemens 19" LCD flatscreen display features a very high contrast even under very bright ambient light conditions. The Gamma curve was precisely adapted to the CIE /DICOM recommendation and is thus suited especially for grayscale display.</p> <p>LCD flatscreen display</p> <ul style="list-style-type: none"> - 19" (48 cm) screen size - Resolution: 1,280 x 1,024 (pixels) - Maximum brightness (typ.): 280 cd/m² - Flicker free and distortion free image display - Ant glare screen <p>The controlled background lighting provides stable lighting throughout the entire product life cycle.</p>
14401876 Inroom Control SW- License	<p>The InRoom Control software extends allows for remote control of the syngo Workpace from the examination room via a touchscreen and joystick.</p> <p>For this, another set of functions is offered on the Artis touchscreen. These are implemented for 3D navigation and allow the user to manipulate the 3D image displayed on the optional display.</p>
14401900 InSpace 3D Stenosis Measurement	<p>Vascular evaluation for <i>syngo</i> InSpace 3D Flash, <i>syngo</i> InSpace 3D Pro, and for <i>syngo</i> InSpace Viewer:</p> <ul style="list-style-type: none"> - Automated contour detection and path planning in the vessel tree. - Determination of degree of stenosis. - Automatic and manual reference diameter determination. <p>Easy and comfortable handling enables measurement during an intervention at the examination table.</p>
14401878 syngo Angio Package	<p>The <i>syngo</i> Angio package enables dynamic review of DSA scenes (non-subtracted or native display) and the postprocessing at the <i>syngo</i> Workpace, with functions such as:</p> <ul style="list-style-type: none"> - Remasking. - Pixel shift. - Anatomical background. - Opacification etc. - Review of DYNAVISON and PERIVISION scenes <p>The high speed functionality increases the image review frequency in the <i>syngo</i> Angio (DSA) viewer of the <i>syngo</i> Workpace for bipane and single pane radiographs, depending on the frame rate and the <i>syngo</i> Workpace hardware used.</p> <p>With the current <i>syngo</i> Workpace hardware the following maximum image review frequencies of the scenes can be achieved:</p> <p>Bipane (native):</p> <ul style="list-style-type: none"> - 6 f/s with a 1024² matrix - 15 f/s with a 512² matrix <p>Monopane (native):</p> <ul style="list-style-type: none"> - 15 f/s with a 1024² matrix - 30 f/s with a 512² matrix

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14401891 syngo 3D Basic SW-License	<p>Input check for data consistency: 3D series -> function with consistency check of 3D series that are suitable for 3D processing. Overlapping 3D series can be merged to a single consistent 3D series.</p> <p>Data set preparation: The data to be displayed can be limited through the checkbox or the function "regular volume of interest", which filters out disturbing information.</p> <p>Image processing Multi Planar Reconstruct (MPR) for interactive movement through 3D volumes in any direction</p> <ul style="list-style-type: none"> - Real time reconstruction of secondary cuts in orthogonal, oblique or double oblique orientation with freely selectable slice thickness (MPR thick, MPR thin) and slice distance. - Calculation of curved cuts is possible. Automatic generation of parallel or radial areas. - Frequently used area settings can be stored. - Reference lines can be determined in the reference topogram or from a 3D surface reconstruction. <p>Maximum Intensity Projection (MIP) for angiographic display:</p> <ul style="list-style-type: none"> - Projection of the pixels with the highest intensity (vascular information) on any plane for display and diagnosis of e.g. aneurysms, plaques, stenoses, vascular anomalies or vascular extensions. - Thin MIP function for the projection with a slab of the data set. - Automatic generation of radial areas. The resulting series can be viewed in three dimensions on display by means of the Move function. <p>Shaded Surface Display (SSD) for the surface display of complex anatomies:</p> <ul style="list-style-type: none"> - Three dimensional display of surfaces from a series of adjacent slices by means of an adjustable threshold value with quick preview and high image quality mode. It is used to display and analyze different anatomies, as for example the interior of the skull, pelvis, hips, etc. in order to plan surgical procedures. - The 3D objects can be tilted and rotated on the monitor in real time by means of a virtual trackball. - Automatic generation of radial series of SSD displays. <p>Since MPR, MIP or SSD are different visualization of the same data set, the user is free to switch between these modes and can also magnify the current display segment. Reconstructed images or areas can be stored or transferred to film sheets.</p>
14402033 19in Color Flatscreen Display	<p>The Siemens 19" LCD flatscreen display features a very high contrast even under very bright ambient light conditions. The Gamma curve was precisely adapted to the CIE /DICOM recommendation and is thus suited especially for grayscale display.</p> <p>LCD flatscreen display</p> <ul style="list-style-type: none"> - 19" (48 cm) screen size - Resolution: 1,280 x 1,024 (pixels) - Maximum brightness (typ.): 280 cd/m² - Flicker free and distortion free image display - Ant glare screen <p>The controlled background lighting provides stable lighting throughout the entire product life cycle.</p>
04472853 syngo keyboard, USA	Keyboard for easy operation of syngo (browser, viewer, filmng). There are special keys for windowing, scrolling, printing, marking and network communication.
14409273 syngo Expert-i	When connection requests arise at the syngo Workplace, a second user with a Windows PC can quickly and efficiently access the syngo Workplace via the network. He or she can assume full control of every application on the syngo Workplace and can see all screen contents that is displayed for the local user on the main monitor. This allows the parties involved to discuss connection requests via phone and quickly reach solutions on a joint basis.
AXA_INITIAL_32 Initial onsite training 32 hrs	Up to (32) hours of on-site connection education/training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) managing professionals. Training will cover agenda items on the ASRT

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(Continued) AXA_INITIAL_32 Initial onsite training 32 hrs	approved check st. Upt me C n ca Educat on phone support s prov ded dur ng the warranty per od for spec f ed 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.
14409307 3D Acqu. incl. DYNAVISON DSA/DR	Ang e tr ggered d g ta rotat ona ang ography w th correspond ng mage transfer to asyngo X Workp ace and nat ve or subtracted (w th DSA opt on on y) mage d sp ay n 3D. <ul style="list-style-type: none"> - Rotat on speed s up to 60°/s (Art s zee ce ng, Art s zeego) and 45°/s (Art s zee f oor, Art s zee b p ane). - Ang e tr gger ng perm ts dose sav ng by frame rate reduct on w th s mu taneous y mproved mage qua ty. - A parameters requ red for the 3D reconstruct on are nc uded n the organ program. Th s enab es opt m zed mage qua ty and easy hand ng. - Acqu s t ons w th frame rates n 1k matr x from 0.5 to 7.5, 10, 15, 30 f/s (standard), and 60 f/s w th reduced spat a reso ut on can be se ected (w th SW VC13, poss b e on y w th FD 30 x 40). <p>Inc udes DYNAVISON DR for nat ve and DYNAVISON DSA for subtracted (w th DSA opt on on y) rotat ona ang ography. Reconstruct on at the syngo X Workp ace s not poss b e w th these operat ng modes.</p>
14411353 Detector 30x40 incl LaserCrossh.(T)	Flat detector 30 x 40 <p>The d g ta h gh reso ut on dynam c f at detector w th ntegrated removab e gr d s espec a y des gned to fu f the requ rements of ang ograph c and ntervent ona app cat ons.</p> <p>154 µm p xe arrays prov de h ghest spat a reso ut on (3.25 LP/mm) and exce ent contrast. F uoroscopy as we as mage acqu s t on are a ways done n 14 b t gray sca e reso ut on, a ow ng exce ent deta v s b ty. Acqu s t on frame rates of up to 30 f/s are poss b e.</p> <p>Usab e nput formats:</p> <ul style="list-style-type: none"> - Overv ew mode 30 cm x 38 cm. - Zoom 1: 30 cm x 30 cm; d agona 42 cm. - Zoom 2: 22 cm x 22 cm; d agona 32 cm. - Zoom 3: 16 cm x 16 cm; d agona 22 cm. - Zoom 4: 11 cm x 11 cm; d agona 16 cm. - Zoom 5: 8 cm x 8 cm; d agona 11 cm. <p>The very compact des gn w th ntegrated co s on protect on prov des max mum C arm angu at on range for exce ent pat ent access.</p> <p>The f at detector s mounted on a motor zed rotat ng turntab e at the C arm. It can be rotated by 90°, so that t can be adjusted to andscape format or portra t format. Any ang e n between can be adjusted. Automat c synchronous rotat on of f at detector and co mator for compensat ng the mage rotat on s ava ab e. Motor zed adjustment of the detector pat ent d stance.</p> <p>D g ta data transfer from the detector to the mag ng system s v a a h gh speed G ga nk f ber opt c cab e.</p> <p>Removab e gr d: The gr d can eas y be removed, sav ng the user t me n exam nat ons not requ r ng a gr d. For exam p e n ped atr cs, where dose reduct on s espec a y mportant.</p> <p>Laser crossha rs: Laser crossha rs ntegrated n the cover of the f at detector and tab es de operat on for eas er, qu cker and dose sav ng pos t on ng of the pat ent.</p> <p>Tube assembly MEGALIX Cat Plus 125/20/40/80-122GW (for all countries except China) 3 focus h gh performance X ray tube assemb y w th f at em tter technogy, meta center tube w th ubr cated sp ra groove bear ng technogy for permanent, no se free rotat on.</p> <ul style="list-style-type: none"> - Max mum tube vo tage 125 kV - Focus: 0.3/0.6 x 0.6*/1.0 (17/38/80 kW) - Anode ang e 12° - Max mum anode heat storage capac ty: 3 375 000 HU

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Part No. / Product	Description
(Continued) 14411353 Detector 30x40 incl LaserCrossh.(T)	<ul style="list-style-type: none"> - Max mum tube current for f uoroscopy: 250 mA <p>* Image qua ty mproved</p> <p>or tube assembly MEGALIX Cat 125/15/40/80-121GW (for China only) 3 focus h gh performance X ray tube assemb y, meta center tube w th ubr cated sp ra groove bear ng techno ogy for permanent, no se free rotat on.</p> <ul style="list-style-type: none"> - Max mum tube vo tage 125 kV - Focus: 0.3/0.6/1.0 (15/40/80 kW) - Anode ang e 12° - Max mum anode heat storage capac ty: 2 000 000 HU - Max mum tube current for f uoroscopy: 170 mA <p>H gh tube power prov des br ant mage qua ty even w th heav er pat ents. In add t on there s no need for X ray pauses even dur ng enghy cases. The X ray tube s comp ete y s ent, wh ch s an add t on a benef t for pat ent and user.</p> <p>Angio collimator Compact mu t eaf co mator for DSA and card o og ca app cat ons w th rectangu ar d aphragm, wedge shaped f ter d aphragms and f nger shaped graduated f ter.</p> <ul style="list-style-type: none"> - F ve step adapt ve Cu pre f trat on (CAREf ter) to reduce the equ va ent sk n dose and mprove rad at on qua ty through dose sav ng for the soft rad at on parts. F ter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu. - Independent rotat on and sh ft ng of f ter d aphragms. - Automat c synchronous rotat on of detector and co mator un t to compensate mage rotat on n the d fferent work ng pos t ons of the gantry. - Manua rotat on of the detector and co mator un t us ng the contro r ght on the detector hous ng. <p>CAREf ter s nte gent contro software that he ps m n m ze X ray dose w thout negat ve mpact on mage qua ty. The soft rad at on s reduced, n part cu ar. Dur ng f uoroscopy and acqu s t on, spec a copper pref ters are nserted fu y automat ca y nto the X ray beam depend ng on current X ray transparency ca cu ated by CAREmat c.</p> <p>Th s s necessary to ensure that the opt ma pref ter va ue s a ways act ve. For the user t wou d be too t me consum ng and therefore unacceptab e to adjust pref trat on v a manua operat on.</p> <p>CAREwatch D sp ay of the measured dose area product and the ca cu ated pat ent entry dose (CAREwatch) at the f at screen d sp ay.</p> <p>E ectron cs un t w th DIAMENTOR measurement chamber ntegrated n the co mator hous ng, for acqu s t on of the dose area product and the ca cu ated pat ent entry dose (CAREwatch).</p> <p>Conf gurab e screens on the data d sp ay and mag ng system mon tor:</p> <ul style="list-style-type: none"> - Dur ng f uoroscopy: pat ent entry dose rate. - Dur ng f uoroscopy nterva : Accumu ated pat ent entry dose or dose area product or percentage of the dose m t (tota dose from f uoroscopy and acqu s t on). <p>The cr t ca equ va ent dose of the sk n (sk n dose) to avo d X ray re ated sk n njury s at about 2 Gy. CAREwatch cons tent y ca cu ates and d sp ays the actua accumu ated sk n dose (n percent). Th s he ps the user to detect a potent a pat ent hazard qu ck y and w th certa nty.</p>
14404984 PERISTEPPING / PERIVISION	<p>Exce ent mage qua ty from the abdomen to the feet s due to the fact that adjustab e parameters such as acqu s t on framerate, measur ng f e ds, pos t on of co mator b ades and sem transparent f ters are stored spec f ca y for each tab e pos t on. That way the d fferent X ray transparenc es for abdomen, egs and feet can be compensated and a cons tent, contrasty mage qua ty s pr v ded.</p> <p>Just one s ng e nject on of contrast med a protects the hea th of the pat ent and g ves the phys c an an nstant, subtracted mage d sp ay of the per phera b ood vesse s.</p> <p>PERISTEPPING: Per phera d g ta stepp ng ang ography w th on y a s ng e contrast med um nject on under v sua contro of the bo us f ow.</p>

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(Continued) 14404984 PERISTEPPING / PERIVISION	<p>C arm stepping with ceiling mounted systems, table stepping with floor mounted and b/p ane systems.</p> <ul style="list-style-type: none"> - Position dependent variable frame rates. - Fully automatic exposure control. - Automatic storage of the collimator settings for each step. <p>PERIVISION:</p> <p>Peripherals for table stepping angiography with online subtraction display in an examination procedure with only one single contrast medium injection under visual control of the bonus flow.</p> <ul style="list-style-type: none"> - Only one single automatic acquired mask image for each individual position. - Position dependent variable frame rates. - Fully automatic exposure control. - Automatic storage of the collimator settings for each step.
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 swivel 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 supported accessories.
04435140 Table Top & Mattress, Narrow	<p>Carbon fiber tabletop in narrow design with head end recess and matching special foam mattress, for example for cardio cath applications. Tabletop tapered in the thorax area for maximum freedom of C arm angulation.</p>
14411259 Large Display with DCS extended	<p>Color flat display</p> <p>The large 56" display area represents a new dimension in medical image display. Using a fully integrated table side control panel with 12 layout variants (display configurations), all examination relevant data are displayed on the same large area screen. The result is high levels of flexibility in displaying individual screen layouts (display configurations).</p> <p>Data such as live, assist, and reference images, syngo X Workplace, Sensis / recording systems, PACS, HIS/RIS, ultrasound, ECG, external video, endoscope, mapping systems, device and table geometry, system messages and dose indicators with CAREwatch option, can be individually positioned and displayed on the large area color display.</p> <p>Contains the enhanced roadmap function:</p> <ul style="list-style-type: none"> - During fluoroscopy live fluoroscopy image; otherwise Last Image Hold. - During Roadmap/subtracted fluoroscopy live fluoroscopy image; otherwise LIH. - During DSA acquisition live acquisition; otherwise save max frame image. <p>Contains the dual reference function:</p> <ul style="list-style-type: none"> - An additional static reference image for parallel display of two reference images on separate displays. <p>Important images for diagnostic purposes can be displayed to scale in the original size, especially important, non diagnostic information can be displayed at a reduced size.</p> <p>The reduced display can be selected individually via the display configurations.</p> <p>For the diagnostic color display TFT technology, with high luminance and extended viewing angle, the gamma curve has been adapted particularly for the gray scale display according to the CIE / DICOM recommendation.</p> <p>Technical specification for the display:</p> <ul style="list-style-type: none"> - Display size (W x H) 124.4 x 70 cm - 56" (142.2 cm) monitor. - Resolution: 3840 x 2160 (pixels); 8 megapixels at 4 x HD.

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Part No. / Product	Description
(Continued) 14411259 Large Display with DCS extended	<ul style="list-style-type: none"> - Color depth 16.7 10⁶ colors - Brightness: calibrated 300 cd/m² - Brightness: minimum 400 cd/m² - Brightness: typical 450 cd/m² - Contrast ratio max. 1,200:1. - Contrast ratio min. 900:1. - Flicker free and distortion free image display. - Ambient light sensor for optimum adaptation of the image display to the room brightness. <p>Multi Display Manager The Multi Display Manager (MDM) receives various video signals and processes this information to show on the Large Display.</p> <p>Up to 21 external video sources can be connected (max. 21 DVI D or 15 DVI R plus max. 6 analog). Other digital/analog combinations are possible, but the sum may not exceed 21 channels.</p> <p>Display ceiling-mounted stand The longtudinally mobile, swiveling, rotating, and height adjustable display suspension system (DCS extended) with enhanced work range contains a large 56" color flat display.</p> <p>All cabinets are integrated into the universal mounted DCS with double articulated arm.</p> <p>The double articulated arm of the "extended" display suspension system provides greater flexibility and a greater positioning range for the large display.</p> <p>Technical specification for the display ceiling support:</p> <ul style="list-style-type: none"> - Longitudinal travel range 315 cm. - Height adjustment range 75 cm. - Swivel range between the articulated joint and the suspension at the ceiling mounted carriage ± 150 degrees. - Swivel range between the freely suspended cantilever arm and the articulated joint ± 120 degrees. - Display swivel range 330°.
14417127 LD complete internal video source	<p>Included:</p> <ul style="list-style-type: none"> - 2x LD Input Sens s 14417124 - 2x LD Input MMWP / XWP 14417125 - 1x LD Input VGA ext. (ultrasound) 14417310 - 1x LD Input Pat. Monitoring (Dräger on y) 14417076
14417129 LD Input external IR/CARD/NEURO kit	<p>Included:</p> <ul style="list-style-type: none"> - 3 x LD Input External Digital Kit 14417161: A digital kit 14417161 includes: 1 x digital input and connection kit for an external digital DVI D video signal including cable and DVI D video splitter. For digital video signals, DVI D, HDMI, comprising a DVI D video splitter for the external monitor and the external video signal. The video splitter is needed if there is no second analog video output on the external device. A required DVI D cables, fiber optic cables, power supplies, adapter and power plugs, and cables are also included. - 2 x LD Input External Analog Kit 14417131: An analog kit 14417131 includes: Analog input and connection kit for external analog video signals including cable and video splitter. For analog video signals, VGA, BNC VGA, DVI I, BAS, PAL, NTSC, comprising an analog VGA video splitter for the external monitor and the external video signal. The video splitter is needed if there is no second analog video output on the external device. A required VGA cables, fiber optic cables, a converter, power supplies, adapter and power plugs, and cables are also included. <p>Ordering information that can be deleted from the final version of the offer follows. To display images from third party video sources on the Large Display interfaces for external video signals, note the following requirements:</p>

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Part No. / Product	Description
(Continued) 14417129 LD Input external IR/CARD/NEURO kit	<ul style="list-style-type: none"> - The connection of third party devices is on your permission before they meet the specifications of the LD interface. - The connection of the LD interface to the LD controller must be performed by a Siemens service technician. - The connection to the third party device must always be performed by the technician of the third party company or by the responsible on-site hospital technician. - Siemens cannot assume any warranty for the connection of the third party device with respect to the image quality and its suitability for diagnosis. - For this reason, it is strongly recommended that the image quality tests prescribed by the third party manufacturer are performed again prior to use. These tests can ensure that the required image quality is achieved. - The system configurator is responsible for ensuring that the valid versions of the relevant standards are met (e.g., EN/IEC 60601 1 1). <p>Should you have any questions, please call the LD hotline: +49 (9191) 18 8080 201. In the USA, please call the local LD hotline.</p>
14417302 LD Bypass Display (rear)	<p>For safety reasons, an LD bypass display must always be available to ensure emergency operation for the fluoroscopy image should the MDM video controller or other parts of the image chain fail.</p> <p>It is attached to the rear of the DCS Large Display.</p> <p>Mounting brackets are readily available.</p> <p>Monochrome TFT technology flat screen display with high luminance and extended viewing angle.</p> <ul style="list-style-type: none"> - Screen size 19" (48 cm). - Resolution 1280 x 1024 (pixels). - Maximum brightness 1000 cd/m². - Typical brightness 400 cd/m². - Typical contrast ratio 600:1. - Viewing angle (horizontal and vertical) 170 degrees. - Flicker free and distortion free image display. - Ambient light sensor for optimum adaptation of the image display 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 back 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 (pixels). - Maximum brightness (typ.): 1,000 cd/m². - Flicker free and distortion free image display. - Ambient light sensor for optimum adaptation to the room brightness.
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 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>
04435801 Automap	<p>Optimized procedure workflow, especially during interventions is the result of the automap function. A selected reference image display during the needed medical information (e.g. before dilatation) is used as the basis for moving</p>

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Part No. / Product	Description
(Continued) 04435801 Automap	the system to the corrected position on automaticaly. The intervention can be continued immediately without manually repositioning the patient. Vice versa, an already stored reference image for a dedicated system position on automaticaly displayed when automap is selected, making it easy to switch from one angle to another with instanty available image information.
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/ user 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>Functions 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>
04435892 DICOM Print	<p>DICOM Print: printing of images by means of a virtual film sheet on a DICOM user camera.</p> <p>Selecting "Auto Print" automaticaly forwards the images stored in the virtual film sheet to the user camera. This optimizes the workflow, eliminating the need for user interaction. In addition, a specific layout can be configured on the virtual film sheet, 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/ user 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>Functions 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>
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.</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. - One LB radiation protection pivot swivel element that can move out of the way during collisions with the tube and stationary protective function. - Two components 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 to 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 via ceiling mounted, mobile stand for protection against scattered radiation; net. 4 m ceiling rail.</p>

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Part No. / Product	Description
(Continued) 14400179 Upper Body Rad. Prot. Artis-T	<ul style="list-style-type: none"> - Sw vab e and rotatab e around the f xed po nt, range of rotat on 360°. - Counter ba nced, he ght adjustab e support arm. - Acry c g ass w th Pb equ va ent of 0.5 eq (w x h: 61 cm x 76 cm), w th recess for ntervent ona exam nat ons.
04443383 Examination lamp, 115 V	<p>Exam nat on ght Mach 130F w th focusab e d e ectr c ght system:</p> <ul style="list-style-type: none"> - Lum nance: 50,000 Lux (4,650 fc) for 100 cm d stance - work ng d stance: 70 to 140 cm - co or render ng ndex Ra (gen.): 96. - co or temperature: 4.300 Ke v n - focusab e spot s ze: 14 to 25 cm - d ameter of ght head: 22 cm. - Ha ogen amp: 22.8 V/50 W. <p>Power connect on OR amp 115 V.</p>
14409254 C-Room Table Support Short	<p>Ra prof e:</p> <ul style="list-style-type: none"> - We ght: 1.4 kg - Ra ength: 12 cm - W dth: 20 cm - He ght: 14.5 cm
14407176 syngo Keyboard, English - US	Keyboard for easy operat on of syngo (browser, v ewer, f m ng). There are spec a keys for w ndows, sheets, pr nt ng, mark ng and network commun cat on.
04452475 Mattress for Tabletop, Wide	Th s v sco e ast c comfort mattress for tab etop w de, react ng to temperature, has the spec a property of adapt ng to the nd v dua body shape under the nf uence of body we ght and heat.
04443243 Armholder (pair)	For Art s tab etops, the two arm holders he p to latera y pos t on the arms comfortab y a ong the pat ent's body. They are s d latera y underneath the mattress, eve w th arms, and f xed by the pat ent's body we ght. The pat ent's arms can be mmob zed w th commerc a y ava ab e f x ng straps. Two pa rs of arm holders of d fferent ength and he ght (match ng the mattress he ght) are supp ed, that are su tab e both for th ck and th n mattresses.
AXA_INITIAL_32 Initial onsite training 32 hrs	Up to (32) hours of on s te c n ca educat on tra n ng, schedu ed consecut ve y (Monday Fr day) dur ng standard bus ness hours for a max mum of (4) mag ng profess ona s. Tra n ng w cover agenda tems on the ASRT approved check st. Upt me C n ca Educat on phone support s prov ded dur ng the warranty per od for spec f ed 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 fo ow up on s te c n ca educat on tra n ng, schedu ed consecut ve y (Monday Fr day) dur ng standard bus ness hours for a max mum of (4) mag ng profess ona s. Upt me C n ca Educat on phone support s prov ded dur ng the warranty per od for spec f ed 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_24 Additional onsite training 24 hours	Up to (24) hours of on s te c n ca educat on tra n ng, schedu ed consecut ve y (Monday Fr day) dur ng standard bus ness hours for a max mum of (4) mag ng profess ona s. Tra n ng w cover agenda tems on the ASRT approved check st f app cab e. 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.

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Part No. / Product	Description
AXA_GOV_CLS GOVT Training Class (T & L not included)	Tu t on for (1) government attendee to attend a c assroom course of cho ce at one of the S emens tra n ng 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.
EPW935515UPS Eaton Powerware 9355 15 kVA UPS	<p>Th s UPS s recommended when protect on and un nterrupt b e power s requ red for the C arm and tab e. Emergency f uoroscopy s not ava ab e w th th s UPS. If emergency f uoroscopy s requ red, the 9390 160 kVA UPS s recommended for the fu system. One UPS per ab.</p> <p>Operation:</p> <ul style="list-style-type: none"> - S nce th s UPS s work ng comp ete y un nterrupted, a power fa ure s observed when no rad at on s ava ab e and the d sp ay shows "No X ray p ease wa t". - The Emergency power amp (red) w ght on the power d sp ay dur ng a power fa ure. A stand movements are poss b e and the mage system funct ons are protected aga nst data oss. Guaranteed back up t me: 10 m n. - Restor ng of hosp ta's ma n power supp y s nd cated when the generator boots aga n (a so green Hosp ta power amp ghts). Fu exposures are ava ab e after apx. 75 seconds. <p>Inc udes UPS, battery, ma ntenance bypass pane , and one year on s te 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>
NT60010835 Grey anti-fatigue floor mat for hospital	Industrial-grade anti-fatigue floor mat that provides comfort and durability. As ahigh-quality product designed to fight fatigue, it provides support for tired, aching feet, legs and back. Beveled edges for safety. Size 3'x5'.