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V.A. Outpatient Clinic  
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420 NORTH JAMES ROAD  
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P.O.tt 757-B89009

**Qty**

**Item Description**

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**SOMATOM Edge Plus**

The SOMATOM Edge Plus is based on a Straton MX Sigma tube and Sigma generator to boost the power and enable an industry standard of low kV imaging. Straton MX Sigma also enables to use 10kV steps from 70-140kV.

The system contains unique Split Filter Technology, which enables routine ready TwinBeam Dual Energy imaging by simultaneous acquisition of a tin filtered and gold filtered spectrum as well as low dose non-contrast imaging using the Tin Filter part only.

This in conjunction with the StellarInfinity Detector & Integrated IR (Iterative Reconstruction), including key technologies, TrueSignal and Edge Technology, the SOMATOM Edge Plus routinely generates ultra-thin 0.5 mm slices e.g. for most accurate stenosis, plaque and stent analysis.

The system is also available with 142 ms temp. resolution, long dynamic range imaging and routine Dual Energy scans.

The SOMATOM Edge Plus offers world's first 3D camera integrated workflow (optional). The FAST 3D camera captures the patient's shape, position, and height in three dimensions.

These technologies are enabling new applications to automate positioning and safeguard correct and consistent imaging:

FAST Isocentering, at the push of a button, provides the correct isocenter position, enabling the right dose modulation and consistent images.

FAST Range supports scanning the correct body region in the topogram with no cut-off - by automatically aligning the identified anatomical position with the protocol.

FAST Direction helps safeguard the right scan direction of the topogram, which is crucial when moving the table with infused patients.

With all this SOMATOM Edge Plus - provides the capabilities to "Changing views in CT".

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**100 kW Power**

Increase the X-ray generator power to a full potential of 100kW.

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**High-speed 0.28 s rotation**

Fast rotation time of 0.28 seconds for unprecedented image quality and highest scan speed. Fast gantry rotation times are the prerequisite for highest temporal resolution and are therefore essential for brilliant, motion artifact free

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	cardiovascular imaging.
1	<b>Cooling System Water</b> Water heat exchanger for the dissipation of heat loss generated in the gantry to an environmentally friendly cooling water circulation system. This optimizes system availability independently of the cooling water flow rate and temperature. System operation temperature 4 - 16 degrees C and 500 - 2500 l/h flow rate.
1	<b>Cooling System Water/Air #split</b> Water-to-air heat exchanger for the dissipation (to the air outside) of heat, generated in the gantry.
1	<b>Transformer for water/air cooling</b> For adequate power consumption the chiller system may need an additional transformer: If the electrical connection to be used can not provide either 400V at 50Hz or 460V at 60Hz this transformer is needed.
1	<b>Service Switch</b> Service switch to shut off the outdoor cooling unit for maintenance or in case of emergency.
1	<b>Patient Table 2000 mm</b> Patient table to support up to 200cm scan range. Motor-driven table height adjustment from min. 48 cm to max. 92 cm, longitudinal movement of the tabletop 200 cm in increments of 0.5 mm, positioning accuracy +/- 0.25 mm from any direction. Horizontal scan range 200 cm. Table height can be controlled alternatively by means of foot switch (2 each on both sides of the patient table). In the case of emergency stop or power failure, the tabletop can also be moved manually in horizontal direction. Max. table load: 227 kg/500 lbs, Table feed speed: 1-200 mm/s, Distance between gantry front and table base 40 cm. Positioning aids: Mattress protector, head-arm support (inclusive cushion), and non-tiltable head holders with positioning cushion set, patient restraining system for head fixation, restraining-strap set with body fixation strap that can be directly connected to the patient table top, headrest, table extension, knee-leg support.
1	<b>Mattress with Spill Protection</b> This mattress is ideal for trauma and acute care settings. The mattress has wide flaps and offers additional protection by preventing liquids spilling into the table by covering the gaps between table top and the table base.
1	<b>FAST IRS</b> Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains of a cluster of high-performance GPU boards performing the preprocessing and reconstruction of the CT data. The peak reconstruction performance is up to 80 frames/sec.
1	<b>Imaging Package</b> We combine our market leading technologies and applications to make this the most personalized scanner for our customers. Including SureView, High Pitch Spiral 1.7, Adaptive Dose Shield, CARE Dose 4D, CARE kV, CARE Child, CARE Profile, CARE Dashboard, CARE Bolus, Dose MAP, FAST Adjust and ADMIRE.
1	<b>Advanced Imaging Package</b> We combine the unique features of the SOMATOM Edge Plus, to push the most distinct CT scanner to its maximum potential, including the full power of the Straton MX Sigma tube - Sigma High Power including, High Power 70 and High Power 80, High Power 90, High Power 100 and 10kV Steps. Additionally Tin Filter scanning allows reaching new levels in low dose non-contrast scans.
1	<b>CARE Contrast III</b> CARE Contrast supports the consistent application of contrast media protocols on the scanner. Saving and linking contrast protocols to scan protocols is available in the Examination card or as part of the scan protocol manager.
1	<b>X-CARE</b> Partial scanning to reduce direct X-ray exposure for the most dose-sensitive body regions, e.g. the breasts, thyroid gland or eye lens.
1	<b>iMAR #AWP</b> The iMAR metal artifact reduction algorithm combines three successful iterative approaches to reduce metal artifacts (beam hardening correction, normalized sinogram inpainting, and frequency split). Siemens algorithm allows for artifact reduction based on the unique composition of metal implants such as coils, metal screws and

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	<p>plates, dental fillings or implants.</p> <p>iMAR is compatible with extended FoV and all Siemens dose reduction features.</p>
1	<p><b>Reading Package</b></p> <p>We combine our market leading applications to make reading and reporting consistent, fast and simple for our customers. Includes VRT, Workstream 4D and Extended FoV.</p>
1	<p><b>HD FoV Pro #AWP</b></p> <p>HD Field of View Pro (HD FoV Pro) is a unique extended field of view reconstruction algorithm that allows a FoV all the way out to the covers of the bore for accurate skin surface delineation (non-diagnostic image quality).</p>
1	<p><b>FAST Spine #AWP</b></p> <p>Accurate and anatomically aligned preparation of spine recons with just a single click.</p>
1	<p><b>z-UHR incl. UHR</b></p> <p>z-UHR/UHR functionality provides maximum system spatial resolution.</p>
1	<p><b>Function - TBDE Package</b></p> <p>This Package includes Twin Beam Dual Energy as well as Dual Spiral Dual Energy scan modes.</p> <p>TwinBeam Dual Energy enables the simultaneous acquisition of high and low kV datasets during a single CT scan. TwinBeam DE broadens the system's range of Dual Energy capabilities for example by replacing noncontrast studies with virtual non contrast reconstructions.</p> <p>syngo DE Scan for Single Source # AWP offers the possibility to acquire two spiral data sets in sequence at different energies.</p> <p>With FAST DE Results you can select Dual Energy applications at the AWP and the results will be sent directly to the PACS for a straight forward Dual Energy workflow.</p>
1	<p><b>FAST Integrated Workflow</b></p> <p>We combine our market leading applications to make positioning simple for our customers.</p> <p>The world's first 3D camera integrated into a CT positioning workflow is available as an option and allows automatic patient positioning in the examination room.</p> <p>The FAST 3D camera captures the patient's shape, position, and height in three dimensions. Using infrared measurement, it even recognizes body contours: for example, when people are wearing heavy clothes or blankets.</p> <p>Specialized applications support accurate and reproducible positioning:</p> <p>FAST Isocentering, at the push of a button, provides the correct isocenter position, enabling the right dose modulation and consistent images.</p> <p>FAST Range supports scanning the correct body region in the topogram with no cut-off - by aligning the automatically identified anatomical position with the protocol.</p> <p>FAST Direction helps safeguard the right scan direction of the topogram, which is crucial when moving the table with infused patients.</p> <p>FAST Topo - enables faster scan speeds in topograms, which minimizes breath-hold artifacts. It also has the potential to decrease the topogram dose.</p> <p>FAST Planning - assists scan and reconstruction planning, based on a topogram, to provide an easier, faster and standardized workflow in CT scanning.</p> <p>FAST 3D Align - automatically corrects misalignment of anatomic structures, organs of the patient. It aligns those to fit it to the selected reconstruction plane for a highly automated reconstruction workflow. Additionally, it minimizes the black area in the image by automatically adjusting the recon field of view selection.</p>

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1	<b>Patient Restraint 400 mm</b> 400 mm wide restraint strap for the safe positioning of even obese patients on the patient table.
1	<b>Tiltable Head Holder</b> Tiltable Head Holder for the fixation of the patient's head. Tilt range between +30 till - 15 degree.
1	<b>Head-Arm Rest</b> This head-arm rest allows placing the head and the arm of trauma patients and even unconscious patients reliably for CT scanning. It is very useful in emergency rooms, e.g. for whole body scans, as it extends the scan range by about 30 cm. It can be placed in the standard Multipurpose Table accessory holder.
1	<b>Additional Arm Fixation</b> The additional arm fixation enables quick and safe positioning of the patient's arms close to the patient's body. Especially large patients benefit from the convenient positioning device that prevents patient's arms from slipping off the patient table.
1	<b>CT Project Management</b> A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemen's equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.
1	<b>CT Standard Rigging and Installation</b> This quotation includes standard rigging and installation of your CT new system.  Standard rigging into a room with reasonable access, as determined by Siemens Project Management, during standard working hours (Mon. - Fri./ 8 a.m. to 5 p.m.) It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents. Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer. All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.
1	<b>Initial onsite training 32 hrs</b> 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.
1	<b>Initial onsite training 32 hrs GovOffset</b>
1	<b>Additional onsite training 32 hours</b> 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.
3	<b>Additional onsite training 32 hours</b> 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.

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1	<p><b>(2), 4hr Wrkshps in 24 consecutive hrs</b></p> <p>This (4) hour customized workshop will take place onsite at the customer's facility and will be facilitated by Siemens Clinical Education Specialists. Through the use of didactic and/or hands-on training attendees will be able to increase their knowledge and skills to help improve their clinical practice. Workshop must be scheduled consecutively (Monday - Friday) during standard business hours. This educational offering must be completed (12) months from date of purchase order. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.</p>
1	<p><b>teampay Welcome &amp; Registration Package</b></p> <p>teampay is a cloud-based network that brings together your imaging modality users, the systems' dose and utilization data, and the users' expertise to help you improve the delivery of care to your patients. Basic features are provided free of charge. Premium features (benchmarking, non-Siemens devices) are provided on a trial basis for three months at no charge, and may be used thereafter on a subscription fee basis.</p> <p>To register: <a href="http://teampay.siemens.com/#/institutionRegistration/1">http://teampay.siemens.com/#/institutionRegistration/1</a></p>
1	<p><b>Stellant D Dual Ceiling w/Certegra WS</b></p> <p>Stellant D Dual Ceiling mounted with Certegra Workstation NO Informatics. Short ceiling post - 580 mm.</p> <p>Other ceiling post lengths are available (different part numbers): 850 mm and 1000 mm.</p> <p>Includes Stellant D, Dual Head, ceiling mounted injector; Certegra workstation; installation and warranty through Medrad.</p>
1	<b>Medrad ISI900 interface, POS</b>
1	<b>Surge Protective Device (SPD)</b>
1	<b>Riedel Chiller Start-up by SBT</b>
1	<b>Low Contrast CT Phantom &amp; Holder</b>
1	<p><b>NEMA_XR-29 Standard</b></p> <p>This system is in compliance with NEMA XR-29 Standard Attributes on CT Equipment Related to Dose Optimization and Management, also known as Smart Dose.</p>
1	<p><b>Dose Alert</b></p> <p>Dose Alert: Dose Alert automatically adds CTDIvol and DLP values depending on z-position (scan axis). The Dose Alert window appears, if either of these cumulative values exceeds a user-defined threshold.</p>
1	<p><b>Dose Notification</b></p> <p>Dose Notification: Dose Notification provides the ability to set dose reference values (CTDIvol, DLP) for each scan range. If these reference values are exceeded the Dose Notification window informs the user.</p>
1	<p><b>Access Protection</b></p> <p>Scan Protocols are password protected allowing only authorized staff members to access and permanently change protocols</p>
1	<p><b>Adaptive Dose Shield</b></p> <p>Adaptive Dose Shield for spiral acquisition to eliminate pre- and post-spiral over-radiation.</p>
1	<p><b>CARE Dose4D</b></p> <p>CARE Dose4D delivers the highest possible image quality at the lowest possible dose for patients - maximum detail, minimum dose. Adaptive dose modulation for up to 60% dose reduction</p>
1	<p><b>CARE Dose Configurator</b></p> <p>CARE Dose Configurator: Enhancement of Siemens' renowned real-time dose modulation CARE Dose4D, introducing new reference curves for each body region and for each body habitus allowing to adjust the configuration even more precisely to the patient's anatomy.</p>

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1	<b>DoseLogs</b> Whenever a dose limit exceeds the established reference dose levels (Dose Notification and Dose Alert) a report is automatically created on the system, enhancing your ability to track radiation dose.
1	<b>FAST Scan Assistant</b> FAST Scan Assistant: An intuitive user interface for solving conflicts by changing the scan time, resp. the pitch and/or the maximum tube current manually.
1	<b>SureView</b> Provides exceptional image quality at any pitch setting, enabling you to scan faster because you can scan at any pitch without degrading image quality
1	<b>CARE Bolus</b> Operating mode for CM-enhancement-triggered data acquisition.
1	<b>UFC Detector</b> Ultra Fast Ceramics (UFC) technology is a unique type of scintillation technology material that quickly and efficiently transforms radiation from the X-ray tube into light signals. Its superb overall quantum efficiency and unique short afterglow enable time-critical X-ray detection at low doses and extremely fast data collection.
1	<b>Neuro BestContrast</b> The Neuro BestContrast algorithm can provide enhanced tissue contrast, resulting in improved contrast between gray and white matter without increasing image noise. This post processing step is rapid and can be easily incorporated into clinical workflow where it can be used with other dose reduction approaches such as iterative reconstruction.
1	<b>Gantry tilt incl. tilted spiral</b> Allows for sequential scanning with a tilted gantry between +/- 30°, depending on the vertical position of the table. Using the gantry tilt sensitive organs (like eye lenses) can be moved out of the scan range or it eases access during interventional procedures. The tilted spiral allows to utilize the gantry tilt for spiral scan modes.
1	<b>syngo VRT</b> Advanced 3D functionality as an extension to the basic 3D viewer, containing volume rendering technique (VRT) and advanced editing functions.

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## OPTIONS

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1	<b>Table Side Rails</b> Side rails enable the quick and easy attachment of additional accessories such as an infusion bottle holder and i-control intervention module to the patient table.
1	<b>Adapt. 3D Intervent. Suite Wireless</b> The complete solution for 2D and 3D non-fluoroscopic and 2D fluoroscopic minimal invasive volume interventions. The Adaptive 3D Intervention Suite contains Adaptive 3D Intervention for 3D volume intervention. Intervention Pro for spiral and sequential non-fluoroscopic interventional procedures and complete organ coverage with maximal flexibility and with minimal single click effort i-Fluoro CT for CT allows for 2 dimensional interventional fluoroscopic procedures i-Control CT supports interventional procedures as independent remote unit Foot switch for radiation release (x-ray).
1	<b>Dual Monitor 19" Intervention #AWP</b> Siemens proprietary syngo software visualizes the examination workflow in individual process steps on so-called task cards, such as the patient registration, examination, viewing or 3D task card. The dual monitor feature enables the split of the syngo task cards on two monitors in two different ways. This option includes the syngo dual monitor software and a second high resolution, flicker-free, 19-inch (48 cm) color flat panel display for medical diagnostic applications. This display provides a resolution of 1280 x 1024 and has a wide viewing angle, features high contrast even under high ambient light conditions. Display light output stability is ensured by controlled backlight throughout the whole lifetime. The dual monitors provide two possibilities for viewing: - One monitor can display the viewing task card, for instance for the interactive review of image data. All other syngo task cards are displayed on the second monitor. - Both monitors display the 3D-Basic task card, enabling the viewing and manipulation of two different datasets on two monitors. It enables the comparison of two series from the same patient e.g. pre- and post-contrast or the comparison of two studies from the same patient e.g. pre- and post-surgery.
1	<b>Dual Monitor Ceiling Support</b> The dual monitor solution enables access to images and scan data while interacting with the patient in the scan room. The high resolution, flicker free, 19-inch (48 cm) color flat panel displays are mounted at the ceiling support. The space-saving ceiling installation along with the large movement range of the support allow maximum operating convenience when positioning the monitor.  19" flat screen monitor (2x) The 19" monitors support CT interventions and CT fluoroscopy with a display in the examination room.  Dual Monitor Ceiling Support

**Qty****Item Description**

The Dual Monitor Ceiling support consists of: video transmitter, video receiver, power supply cable and a 30 m fiber-optic cable set for connecting the flat screen monitors. Displays suitable for medical diagnostic applications (room class 1 and 2 acc. To DIN 6868-157).

**Ceiling Support Base**

Ceiling support for the accommodation and safe installation of one or two flat screen monitors in the examination room.