

Artis Q ceiling

/ Product	Description
Artis Q ceiling Interv. Rad.	<p>System description:</p> <p>The single plane X-ray angiography system for digital acquisitions was designed to meet the requirements of modern angiography and interventional procedures, with a focus on interventional radiology.</p> <p>C-arm ceiling-mounted stand:</p> <p>System cable outlet at the ceiling carriage, on the patient's left side.</p> <ul style="list-style-type: none">- Up to 5 preprogrammed work positions and a further 50 user-defined work positions.- One single joystick for patient angle oriented operation of C-arm and flat detector movements.- Intelligent, computer-aided collision monitoring ICP (Intelligent Collision Protection).- C-arm positioning 0° to the head end and variable up to 135° to the left and right side along the patient longitudinal axis.- Double oblique projections of $\pm 100^\circ$ in orbital movements and up to 330° (+180°/-150°) in rotational movements (depending on gantry positioning and patient size).- Variable C-arm speeds up to 25°/s.- Variable focus-to-detector distance between 90 cm and 120 cm.- Isocenter-floor distance 108 cm.- Focus-isocenter distance 75 cm. <p>MULTISPACE.T</p> <p>The stand can be positioned on the left or right of the patient or at the head end, or at any angle in between. It can be moved longitudinally to any position along the length of the patient and also has a park position at a sufficient distance from the patient.</p> <p>In Focus allows the projection angle to the patient to remain unchanged when rotating the C-arm around the table.</p> <p>IsoTilt allows the projection angle to the patient to remain unchanged when tilting the patient table (if the tilting function is available).</p> <p>Both In Focus and IsoTilt improve the efficiency of an examination because there is no need to spend time adjusting the projection angle.</p> <p>Patient table for angiographic examinations</p> <p><u>Patient table</u></p> <ul style="list-style-type: none">- Direct patient access from all sides, both through the swiveling table and large tabletop cantilever.- Electromechanical release of table swivel at the touch of a button at the table.- Telescopic foot with motor-driven height adjustment.- Maximum patient weight: 250 kg. It is possible to install up to 40 kg of additional accessories, plus a further 100 kg for patient resuscitation. <p><u>Patient positioning tabletop</u></p> <p>Patient positioning tabletop made of carbon fiber in wide, straight design for universal use. The tabletop is straight all the way to the head area.</p> <p><u>Patient mattress</u></p> <p>Matching, special-foam mattress, 4 cm, incl. a latex-free cover.</p> <p>This visco-elastic comfort mattress reacts to temperature and has the special property of adapting to the individual</p>

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<p>(Continued)</p> <p>Artis Q ceiling Interv. Rad.</p>	<p>body shape under the influence of body weight and heat.</p> <p><u>Application-specific accessories</u></p> <ul style="list-style-type: none"> - Unilateral armrest: Carbon fiber armrest for cardiology and arm angiography to slide underneath the positioning mattress. - Infusion bottle holder - Instrument tray: Plastic instrument tray to be positioned at the patient table above the patient. It is swivable and height-adjustable, so that it can be positioned directly or sideways above the patient. - Arm holder (1 pair): Two arm holders for comfortable lateral arm positioning along the patient's body. - Additional hand switch for radiation release and additional control functions. <p>Operating modes</p> <p><u>Fluoroscopy</u></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. Pulse rates of 0.5 - 7.5 p/s are also possible with CAREvision. - Overlay fade: On-line overlay of the reference image onto the active fluoroscopy. This improves efficiency and safety during interventional procedures because additional information which is clinically necessary can be displayed directly in the live fluoroscopy image. <p><u>Digital acquisition technology</u></p> <p>Digital acquisition technology with frame rates of 0.5 to 7.5 f/s in 1k/12 bit matrix and digital real-time filtration. Single image and serial acquisitions with time-controlled and manually variable frame rate. The 1k image matrix with a bit depth of 12 bits allows an excellent image contrast by using 4,096 shades of grey. Thus, the image quality meets highest expectations in angiography and fulfills all prerequisites for precise diagnostics and safe interventions.</p> <p><u>Digital Subtraction Angiography:</u></p> <p>Digital Subtraction Angiography with frame rates of 0.5 to 7.5 f/s, including pixel shift, remask, roadmap, peak opacification for iodine contrast (MaxOpac), and CO2 contrast (MinOpac); adding of the anatomical background (landmark) from 0 to 100%.</p> <p>Includes the "Advanced Roadmap" additional function which offers the following clinical benefits:</p> <ul style="list-style-type: none"> - DSA image can be selected as a mask for Roadmap - Zoom can be changed during Roadmap - Catheter and vascular contrast can be changed separately <p>Unexpected patient movements in DSA acquisitions will deteriorate image quality. Although this can be corrected via manual pixel shift, it is still inconvenient and time consuming for the user. Auto Pixelshift solves this challenge easily maintaining optimal image alignment.</p> <p>CLEARmap</p> <p>Special 2D Roadmap operating mode creating a vessel map from a DSA-scene using Maximum Opacification technique. As an additional operating mode, you can also decide to pick one frame out of a DSA run (i.e. for venous access in Roadmap). This provides improved image quality compared to conventional Roadmap, and reduces x-ray dose and contrast media.</p> <p>CLEARmatch</p> <p>Automatic/Online pixel shift processing for most accurate subtracted image display during Roadmap and DSA based on real time movement detection and compensation. Six degrees of freedom – vertical, horizontal, rotational, zoom and shearing movement (left and right) - allowing highest possible efficacy. In order to show the most recent information in raw format, the pixel shift operation is applied to the mask image. This optimized way of pixel shifting ensures a perfect match of Roadmap image and native fluoro image, being shown at the Assist monitor.</p> <p>CARE package</p> <p><u>ALARA principle</u></p> <p>Siemens follows the ALARA principle: "As Low as Reasonably Achievable"; the CARE package (Combined Applications to Reduce Exposure) was developed based on this research and development principle to protect the</p>

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<p><i>(Continued)</i></p> <p>Artis Q ceiling Interv. Rad.</p>	<p>examiner and the patient.</p> <p><u>Dose saving</u></p> <ul style="list-style-type: none"> - CAREfilter: Intelligent control software that minimizes X-ray dose. Not only does this not have a negative impact on image quality, it can in fact improve it. During fluoroscopy and acquisition, special copper prefilters are automatically inserted into the X-ray beam depending on current X-ray transparency, which is calculated continuously. This is necessary to ensure that the optimal prefilter value is always active. This automation makes work easier for the user because the optimal filter setting need not be adjusted manually for each case. The adaptive Cu prefiltration has five steps (0.1, 0.2, 0.3, 0.6, 0.9 mm) and is used to lower the reference air kerma and improve radiation quality by reducing the low-energy X-ray radiation. - CAREvision: Pulsed fluoroscopy with additional, reduced pulse rates of 7.5 p/s to 0.5 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure, especially during interventional procedures. - CAREprofile: Radiation-free positioning of the primary and semi-transparent diaphragms by means of graphic display in the LIH (Last Image Hold). Collimator shutters and semi-transparent filters can be adjusted as a graphical overlay on the last-image-hold without any need for fluoroscopy or radiation. - CAREposition: Radiation-free object repositioning by means of graphic display of the X-ray center beam and image edges in the LIH image. With CAREposition it is possible to reposition the object under visual control without radiation. - In case of table movements the current position of the central beam and the image edges are superimposed on the LIH image as orientation points. - Low dose acquisition: enables dose savings of up to 60 % during the examination. The Low Dose Acquisition protocol can be released with a separate pedal on the foot switch. <p><u>Dose monitoring</u></p> <ul style="list-style-type: none"> - CAREwatch: Display of the measured dose-area product and the calculated patient reference air kerma on the flat-screen display. Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing for dose acquisition. Configurable screens on the data display and imaging system monitor: During fluoroscopy: Reference air kerma rate. During fluoroscopy interval: Accumulated reference air kerma or dose-area product, or percentage of the reference air kerma limit (total from fluoroscopy and acquisition). CAREguard: Monitoring the reference air kerma. If the accumulated reference air kerma exceeds one of the three configurable limits, a warning appears on the live display and tableside on the touchscreen control. This allows ideal monitoring of the accumulated reference air kerma during the examination. - CAREmonitor: Special model-based monitoring of the measured skin entry dose, taking into account the geometric conditions of the system (actual device angulation, table position, patient weight, patient size). It then continually displays whether the skin entry dose applied to a specific region of the patient's body exceeds a specific configurable upper limit. CAREmonitor continually calculates and displays the actual accumulated skin entry dose as a portion of this upper limit. This helps the user to detect a potential patient hazard at an early stage. The patient is therefore better protected against the damaging effects of radiation. <p><u>Dose documentation</u></p> <ul style="list-style-type: none"> - CAREreport: Dose information as part of the DICOM Structured Report. After each examination, the information is available in DICOM format and can be sent to a DICOM archive together with the image data, for example. Saving dose information in DICOM format also enables flexible analysis and further processing via a DICOM-capable analysis software/database. - CARE Analytics: Standalone PC program for analyzing doses in angiography, CT, and radiological examinations. The data can be exported to statistics programs such as Microsoft Office Excel and SPSS for further analysis. CARE Analytics is available for download from the Siemens Intranet. <p>CLEAR package</p> <p>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"> - CLEARpulse generates images with a higher contrast while also allowing doses to be lower. This is because it uses an anode with a larger area, operated with a higher anode rotation speed. This achieves a higher pulse power, which also reduces the tube voltage when coupled with 0.1 mm Cu prefiltration. This in turn makes it easier to eliminate the parts of the radiation spectrum which are not suitable for imaging.

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<p>(Continued)</p> <p>Artis Q ceiling Interv. Rad.</p>	<ul style="list-style-type: none"> - CLEARcontrol: The new histogram analysis provides a more homogeneous image impression by harmonizing over- and underexposed areas of the image. This is done fully automatically, thus eliminating any further manual user corrections through windowing. - CLEARview: Dose-dependent filtering of the image data efficiently suppresses image noise, enabling clear, sharp images, even for low-dose acquisitions. - CLEARvessel: Every pixel is analyzed in real time, and vessel edges are shown in high contrast without adding noise to the image. - CLEARmotion: Fine moving structures, such as small vessels and guidewires, are detected in the image and motion artifacts are suppressed efficiently. The visibility of small moving vessels and guidewires is improved significantly during fluoroscopy. <p>In addition there is Dynamic Density Optimization (DDO) for on-line harmonization of native series and single images.</p> <p>Image generation</p> <p><u>X-ray generator</u> Microprocessor-controlled high-frequency X-ray generator with automatic dose rate control.</p> <ul style="list-style-type: none"> - Power output: 100 kW at 100 kV. - SID tracking: Automatic tube current adaptation to focus-to-detector distance. - CAREmatic: Automatic X-ray control system for fully automatic calculation and optimization of exposure data based on fluoroscopic data. - CLEARpulse: Provides higher image contrast using a reduced dose. - Patient transparency monitoring. - Tube load monitoring with indication in the live display. <p>The optimal X-ray parameters depend on the transparency of the patient at the current angulation, measured during fluoroscopy. These parameters are continuously calculated and updated. Test shots are no longer required. This ensures superior image quality and minimum radiation exposure for user and patient with every exposure release.</p> <p><u>GIGALIX 125/30/40/90 - G X-ray tube assembly</u> Triple-focus high-performance X-ray tube assembly with unique flat emitter technology for generating extremely high tube currents of max. 250 mA in fluoroscopy and 1000 mA in acquisition. This provides very good image quality even with heavier patients or steep angulations. The focus is always quadratic and permits outstanding perceptibility of small structures with a nominal quadratic focus of 0.3/0.4/0.7. The anode has a high heat storage capacity of 5.2 MHU and the metal center tube with liquid bearing technology allows a maximum cooling power of 1520 kHU/min. This means that pauses are not required during radiation, even for lengthy procedures. The X-ray tube is almost silent, which is an additional benefit for patient and user.</p> <p><u>as40HDR flat detector</u> The digital high-resolution dynamic flat detector with integrated removable grid is especially designed to fulfill the requirements of interventional imaging. The detector features 16-bit analog-to-digital conversion, resulting in a gray scale resolution of 65,536 gray scales. This in turn improves contrast resolution in 3D imaging with syngo DynaCT.</p> <p>The increased scintillator layer thickness of 750 µm results in a high DQE (Detective Quantum Efficiency) of 77%, thereby improving image quality at low radiation doses.</p> <p>154 µm pixel arrays provide highest spatial resolution (3.25 LP/mm) and excellent contrast. Acquisition frame rates of up to 60 f/s are possible.</p> <p>Usable input formats:</p> <ul style="list-style-type: none"> - Overview mode 30 cm x 38 cm. - Zoom 1: 30 cm x 30 cm; diagonal 42 cm. - Zoom 2: 22 cm x 22 cm; diagonal 32 cm. - Zoom 3: 16 cm x 16 cm; diagonal 22 cm. - Zoom 4: 11 cm x 11 cm; diagonal 16 cm.

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<p>(Continued)</p> <p>Artis Q ceiling Interv. Rad.</p>	<ul style="list-style-type: none"> - Zoom 5: 8 cm x 8 cm; diagonal 11 cm. <p>The flat detector is mounted on a motorized rotating turntable at the C-arm. It can be rotated by 90°, so that it can be adjusted to landscape format or portrait format. Any angle in between can be adjusted. Motorized adjustment of the detector-patient distance.</p> <p>The as40HDR flat detector offers additional operating functions directly on the detector housing, such as angulation, FD rotation (cranial/caudal, RAO/LAO), and change of the focus-detector distance.</p> <p>Removable grid: The grid can easily be removed, saving the user time in examinations not requiring a grid. For example in pediatrics, where dose reduction is especially important.</p> <p><u>Tube collimator</u> Compact multileaf collimator for DSA and cardiac applications with rectangular collimator and wedge-shaped filters. Includes the adaptive Cu prefiltration (CAREfilter) as well as the measurement chamber for recording the dose-area product and reference air kerma (CAREwatch).</p> <p><u>StraightView</u> The flat detector and the multileaf collimator are installed on a motorized rotating turntable on the C-arm. They automatically line up with the table swivel, thus ensuring upright images of objects which are in line with the table. The flat detector and multileaf collimator can also be rotated together at any angle relative to the table, enabling upright presentation and collimation of objects which are not in line with the table.</p> <p>Image processing</p> <ul style="list-style-type: none"> - Positive/negative image display, windowing, contrast/brightness control, electronic display (shutter), image shift (roaming), vertical and horizontal image inversion, magnifying glass, and zoom functions. - Storing of single images as reference images also during fluoroscopy. - Quantification: angle/length measurement, automatic and/or manual calibration. - Text functions: user-definable image annotation, free annotation or by means of text components, comments line for the image, R/L display. - Fast and direct access to all series, single images, and photo file images via MULTIMAP both in the examination room and in the control room for displaying or post-processing images. <p>Imaging system</p> <p><u>Dual architecture</u> 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 best possible system performance and availability.</p> <p><u>Image storage capacity</u> 25,000 images in 1k/12 bit image matrix. This can be optionally extended to up to 100,000 images.</p> <p>Image storage</p> <p><u>DVD/CD burner</u> DVD drive for automatic digital image storage in the background on DVD-/CD-ROM for off-line data exchange in DICOM format.</p> <p><u>Networking</u></p> <ul style="list-style-type: none"> - Network interface (1000 BaseT) with the following integrated DICOM services: - 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 and/or a DICOM workstation. The user can perform his

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<p>Head-end table tilting</p>	<ul style="list-style-type: none"> - ±15° head up/head down positioning.

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<p><i>(Continued)</i></p> <p>Head-end table tilting</p>	<ul style="list-style-type: none"> - 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 at the touch of a table button. - Max. patient weight 200 kg. It is possible to install up to 40 kg of additional accessories.
<p>PERISTEPPING / PERIVISION</p>	<p>Excellent image quality from the abdomen to the feet is due to the fact that adjustable parameters such as acquisition frame rate, measuring fields, position of collimator blades and semitransparent filters are stored specifically for each table position. That way the different X-ray transparencies for abdomen, legs and feet can be compensated and a consistent image quality with best possible contrast is achieved.</p> <p>Just one single injection of contrast media protects the health of the patient and gives the physician an instant, subtracted image display of the peripheral blood vessels.</p> <p>PERISTEPPING: Peripheral digital stepping angiography with only a single contrast medium injection under visual control of the bolus flow. Gantry stepping with zeego and ceiling mounted systems, table stepping with floor mounted and biplane systems.</p> <ul style="list-style-type: none"> - Position-dependent variable frame rates. - Fully automatic exposure control. - Automatic storage of the collimator setting for each step. <p>PERIVISION: Peripheral digital stepping angiography with online subtraction display in an examination procedure with only one single contrast medium injection under visual control of the bolus flow.</p> <ul style="list-style-type: none"> - Only one single automatically acquired mask image for each individual position. - Position-dependent variable frame rates. - Fully automatic exposure control. <p>Automatic storage of the collimator setting for each step</p> <p>-</p>
<p>syngo 3D Engine with Acquisition</p>	<p>syngo X Workplace The syngo X Workplace is a dedicated workstation for image postprocessing . Its functionality can be extended with additional software functions to suit specific user or clinical needs in angiography, surgery, and cardiology. The use of the licensed software is limited exclusively to the specific <i>syngo X Workplace</i> included with this configuration.</p> <p>syngo X Workplace PC The high-performance workstation is equipped with an Open GL accelerator board to support 3D applications. To exchange medical images on DICOM-compatible CD-Rs and DVDs, the system is equipped with a CD/DVD burner.</p> <p><i>syngo X Workplace</i> can be connected to an existing network via 1000/100/10 Mbit Ethernet.</p> <p>Examination room: 19" color flat display or Artis Large Display connection kit With this configuration, if an Artis Large Display is ordered - the configuration includes a connection kit for the Artis Large Display. If an Artis Large Display was not ordered - a display is delivered additionally for the examination room...</p> <p>Control room: 19" color flat display or Artis Cockpit connection kit In this configuration, there is also one display for the control room or one connection kit for an Artis Cockpit.</p> <p>The Siemens 19" LCD color display features very high contrast even under very bright ambient light conditions. The Gamma curve was precisely adapted to the CIE/DICOM recommendation and is thus especially suited for gray scale display.</p> <p>LCD color display</p> <ul style="list-style-type: none"> - 19" (48 cm) screen size - Resolution: 1,280 x 1,024 (pixels)

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<p>(Continued)</p> <p>syngo 3D Engine with Acquisition</p>	<ul style="list-style-type: none"> - Excellent brightness for the entire service life: 137 cd/m² at a contrast ratio of 300:1. - Flicker-free and distortion-free image display - Anti-glare screen <p>The controlled background lighting provides stable lighting throughout the entire product life cycle.</p> <p>syngo X Workplace Basic User Software The <i>syngo X Workplace</i> software features an intuitive and thus easy to learn user interface developed from prototypes tested in close cooperation with users.</p> <p>Standard functions such as filming or image review, and optional clinical application software, are performed in individual processes on dedicated task cards. A number of functions and input parameters, as well as the language used, can be selected according to individual requirements.</p> <p>Package includes the following software licenses Basic software with CD and dongle for the following functions:</p> <ul style="list-style-type: none"> - Patient Browser - Filming - Viewer - System services <p>Patient Browser:</p> <ul style="list-style-type: none"> - Patient management. - DICOM communication with Send, Receive, Query/Retrieve, Print. - Reading and importing image data from CDs/DVDs. - Module for writing DICOM CDs/DVDs for data exchange. Writing is in background mode. <p>Filming: A virtual filmsheet shows a 1:1 display of the film sheets to be printed. This permits an effective preview of the filming job and the windowing of images, as well as providing a large number of evaluation functions.</p> <p>Viewer: The Viewer supports interactive 2D review, evaluation, and documentation functions. Multiple studies from the same patient can be displayed side-by-side for comparison.</p> <ul style="list-style-type: none"> - Image display: 1.024² screen matrix, configurable with up to 64 image segments. - CINE display: Automatic or interactive dynamic presentation technique for the visualization of time and volume series. - Synchronized viewing of multiple series. - Measurement and annotation: Text annotation; distance, angle, circle, ROI and pixel lens, depending on information available from the acquisition system. <p>System services: Microsoft Office Word, Excel, PowerPoint plus Outlook are supported (not provided!).</p> <ul style="list-style-type: none"> - Any user-selectable file, such as cardiac or angiographic acquisitions, DSA or 3D AVI video sequences, can be burned to CD, or exported to USB stick, to prepare quality presentations and demos of pathologies. - Network module: For connection to a local Ethernet (Gigabit or 100 Mbit) for communication with networked archives, printers, diagnostic and therapy workstations, and teleradiology routers. <p>Scope of functions</p> <ul style="list-style-type: none"> - Network stations can be configured. - Unlimited selection of stations. <p><u>3D image generation</u></p> <p>3D rotational angiography</p>

Product	Description
<p>(Continued)</p> <p>syngo 3D Engine with Acquisition</p>	<p>In 3D rotational angiography, a sequence of 2D projection images is acquired by a C-arm performing a fast rotation around the isocenter in which the patient is positioned. Image data are transferred automatically to a <i>syngo</i> X Workplace for time-optimized 3D image data reconstruction.</p> <ul style="list-style-type: none"> - All parameters required for the 3D reconstruction are included in the organ program. This enables optimized image quality and easy handling, as well as the fastest possible 3D reconstruction. - Rotation speed is up to 88°/s (Artis zeego with <i>syngo</i> Dyna3D HighSpeed), 60°/s (Artis ceiling), and 45°/s (Artis floor and Artis biplane). - Angle triggering allows a reduction in dose through a reduced acquisition frame rate while at the same time achieving better image quality. In addition, it allows for accurate subtracted rotational scans. <p>3D reconstruction and visualization of a volume are performed in real time in volume rendering technique, MPR, and MIP. 3D Rotational angiography is used in particular as support in interventional radiology and neuroradiology in the angiography laboratory. Based on dedicated acceleration hardware the primary reconstruction results are available in full diagnostic quality in the examination room within 19 seconds for high contrast images. Subsequent secondary reconstructions are available even faster.</p> <p>Note: For biplane systems rotation angiography is available in plane A only.</p> <p><u>3D Image Manipulation</u></p> <p>The 3D XWP comes with applications that facilitate interactive volume rendering, accelerated by a high-end 3D graphics card. It offers support for large data records of up to 1,600 images (512 x 512 matrix).</p> <p>In angiography, surgery, and cardiology, the three-dimensional information is used for diagnosis, planning of therapy and documentation.</p> <p>Diagnosis and treatment can be performed in one session. This offers a significant advantage thanks to the fully-integrated workflow, for example the</p> <ul style="list-style-type: none"> - Transfer of the projection angle (that has been adjusted by the user in the XWP 3D volume) to the C-arm stand. - Realtime synchronization between reconstructed volume and C arm position (Volume following the C arm position) - Indication whether the angulation can be achieved at the C-arm without collision with the patient or table. - Interventional volume measurement. <p>Features:</p> <ul style="list-style-type: none"> - Reconstruction protocols for visualization of vessels, bones, clips 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. - Link between C arm geometry and reconstructed volume: driving the C arm to exact projection position according to the view of the reconstructed volume and/or setting the volume to follow realtime C arm positions <p>Image data:</p> <ul style="list-style-type: none"> - Viewing of volume data from AX, CT, MR, and PET modalities. - Loading of two volume data sets simultaneously. - Multiple Layouts: single (1on1), double (2 on1) and quadruple (4on1) for MPR display. - Two displays can be supported for simultaneous display of two volumes side-by-side. <p>Image display modes:</p> <ul style="list-style-type: none"> - VRT, Color VRT, MIP, MinIP, and MPR rendering. - Thin slice renderings for VRT, MIP, and MinIP. - Variable light source. - Shading effects.

Product	Description
<p><i>(Continued)</i></p> <p>syngo 3D Engine with Acquisition</p>	<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"> - Radial ranges, including macro range definitions. - 2D and 3D measurements, measurement grid, distance measurement and annotations. - AVI format export with selectable compression format and compression ratio. - TIFF, PNG, BMP, JPEG image export. - Send to film sheet. - Sending of parallel ranges results to PACS <p>3D accessories Includes the accessories required for 3Dsetup and calibration :</p> <ul style="list-style-type: none"> - Plexiglas calibration phantoms - Line phantom for image quality control - Form filter - 3D data link <p>Dual volume visualization Enables the differentiation between two high-contrast 3D objects that have virtually the same contrast density by choosing different visualization presets for the two simultaneously loaded volumes. This enables clear differentiation between e.g. contrast-filled vessels, bones, stents, clips or coils. Furthermore, it allows the display of one low-contrast and one high-contrast volume in one view, often realized as embedded MPR where the high-contrast volume is visualized in VRT and the soft-tissue information is shown as MPR slice. This can be used e.g. for visualization of anatomical structure such as tumors in relation to the feeding vessels</p> <p>Common functions</p> <p>Inroom control functionality Allows for remote control of the <i>syngo</i> X-Workplace from the examination room via touchscreen and joystick mounted table-side or on a trolley. For this, a set of functions is offered inroom for e.g. 3D image assessment and manipulation, 3D navigation, multimodality image integration, or for actively following the steps of a pre-defined workflow.</p> <p>syngo Expert-i <i>syngo</i> Expert-i enables the physician to interact with the <i>syngo</i> X -Workplace from virtually anywhere. When clinical questions arise at the <i>syngo</i> X-Workplace, a second user with a Windows PC can quickly and efficiently access the <i>syngo</i> X-Workplace via the network. He or she can assume full control of every application on the <i>syngo</i> X-Workplace and can see all screen content that is displayed for the local user on the main monitor. This allows the parties involved to discuss clinical questions via phone and quickly reach solutions on a joint basis.</p> <p>DICOM Industrial standard for the transmission of information between DICOM-compatible units 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)</p>

/ Product	Description
<p>(Continued)</p> <p>syngo 3D Engine with Acquisition</p>	<p>For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.</p> <p>The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).</p> <p>Functionalities across interfaces with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility.</p> <p>A modification of the interface that might be required is not included in the offer; e.g. for the rare case that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.</p>
<p>syngo DynaCT</p>	<p><i>syngo DynaCT</i> is especially suited to support radiologists and neuro-radiologists during interventional procedures in the angiography suite with both endovascular and non-endovascular procedures. <i>syngo DynaCT</i> provides enhanced decision making during oncology procedures such as chemoembolization and RF-ablations. In neuroradiology, <i>syngo DynaCT</i> allows the visualization of bleeds, the ventricular system of the brain and microstent placement.</p> <p>With <i>syngo DynaCT</i> it is possible to visualize a density difference of 10 HU (Hounsfield Units) of an object 5 mm in size, or 5 HU for an object 10 mm in size, in a Thick-MPR display (measured with a CATPHAN 16 CT phantom with the CTP 515 module). <i>DynaCT</i> also offers:</p> <ul style="list-style-type: none"> - a new reconstruction algorithm optimized for fan beam geometry - 20sDR-H 109 kV for native <i>DynaCT</i> e.g., for detecting bleeding - faster 3D acquisition in 4x4 Binning mode <p>For <i>syngo DynaCT</i> 360 applications in the abdomen or thorax in conjunction with an Artis zeego system, the larger field of view (FOV 35 cm x 25 cm, 13.8" x 9.8") allows complete visualization of tumors, their feeding vessels and the surrounding tissue, e.g. in chemoembolizations. The larger FOV also optimally supports vascular treatments in the abdomen such as the placement of stent prostheses. The short acquisition time makes it easier for patients, especially those that are critically ill, to hold their breath during the acquisition.</p>
<p>syngo DynaPBV Body</p>	<p>Based on a special <i>syngo DynaCT</i> acquisition program with automatic processing, the blood volume is displayed color-coded. Under or oversupplied parenchymal areas in the abdomen can be displayed.</p> <p><i>syngo DynaPBV Body</i> provides physiological image information regarding lesions. As a result, individually differing response behavior to embolization can be better identified.</p> <p>In conjunction with Artis zeego: as the fastest 3D protocol on the market, <i>syngo Dyna3D HighSpeed</i> enables acquisitions to be generated in less than 3 seconds. As a result, moving organs such as the lungs can be displayed with a lot fewer artifacts.</p>
<p>syngo Fusion Package</p>	<p><i>syngo Toolbox</i></p> <p>Any change of the angulations of the C-arm or any change of the table position will cause the workstation to recalculate in real time the projection of the 3D markings to exactly match the current view of the live 2D X-ray image. This function can be used to guide the operator with his or her instruments to a target structure as the markings in the 3D image can serve as a surgical plan that is displayed during the procedure in the X-ray image.</p> <p><i>syngo 2D/3D Fusion</i></p> <p>While <i>syngo 3D/3D Fusion</i> requires a <i>syngo DynaCT</i> or <i>syngo Dyna3D</i> image to overlay a pre-operative CT on the live X-ray image, <i>syngo 2D/3D Fusion</i> requires only two 2D projections from different angles for such overlay. Simultaneous alignment in two views ensures overall alignment of the 3D volume and fluoro at all angulations.</p> <p><i>syngo 3D/3D Fusion</i></p> <p>Besides an improved diagnostic workflow, <i>syngo 3D/3D Fusion</i> becomes particularly powerful in conjunction with <i>syngo 3D Roadmap</i> and <i>syngo Toolbox</i>. For example, a fused CT, MR or PET image can be overlaid with live fluoroscopy in combination with <i>syngo 3D Roadmap</i>. If anatomical structures have been marked in the CT, MR or</p>

Product	Description
<i>(Continued)</i> syngo Fusion Package	PET image using syngo Toolbox,
syngo NeedleGuidance	<p>syngo Needle Guidance workflow provides a guided intuitive 3 step approach, for consistent needle positioning results:</p> <p>Step 1: Definition and check of the needle path on a DynaCT or an external CT or MR or PET-CT dataset.</p> <p>Step 2: Check of automatically proposed progression views that will be used for monitoring the needle procedure.</p> <p>Step 3: Alignment and progression of the needle under fluoro 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 in all three dimensions.</p> <p>Subsequently, a control scan can be performed and automatically fused with the planning volume using fusion functionality. syngo DynaCT, CT, PET or MR images are accepted for the image fusion.</p>
syngo Embolization Guidance	Based on a 3D acquisition, relevant vessels are marked and a vascular midline calculated. The ability to graphically overlay it with the current fluoroscopy image supports embolization of e.g. tumor-feeding vessels. Includes the license for <i>syngo</i> Embolization Guidance.
syngo Angio Package	<p>The <i>syngo</i> Angio Viewer enables dynamic review of DSA scenes (in native or subtracted display) and their postprocessing at the <i>syngo</i> Workplace, with functions such as:</p> <ul style="list-style-type: none"> - Remasking. - Pixelshift. - Anatomic background. - Opacification etc. - Review of DYNAVISON and PERIVISION scenes
syngo Scene Compare w/biplane	<p>Control room: 19" color flat display or Artis Q Cockpit connection kit There is one additional display for the control room or one connection kit for an Artis Q Cockpit.</p> <p>The Siemens 19" LCD color display features very high contrast even under very bright ambient light conditions. The Gamma curve was precisely adapted to the CIE/DICOM recommendation and is thus especially suited for gray scale display.</p> <p>LCD flatscreen display</p> <ul style="list-style-type: none"> - 19" (48 cm) screen size - Resolution: 1280 x 1024 (pixels) - Maximum brightness (typ.): 280 cd/m² - Flicker-free and distortion-free image display - Anti-glare screen <p>The controlled background lighting provides stable lighting throughout the entire product life cycle.</p>
syngo DICOM SR Viewer #X	For optimized display of reports that were created with <i>syngo</i> applications, the <i>syngo</i> DICOM SR Viewer is delivered with dedicated templates. Unknown report types (e.g. from other vendors) are displayed by using a generic template.
Vascular 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.

Product	Description
<p><i>(Continued)</i></p> <p>Vascular analysis</p>	<ul style="list-style-type: none"> - Determination of degree of stenosis. - Automatic and manual reference diameter determination. - Automatic and manual calibration methods. - Distance and angle measurement. <p>The Vessel analysis allows precise quantification under sterile conditions, direct at table side with the touchscreen control. This speeds up the intervention and makes the procedure safer for the patient. The reports can be easily stored in the patient folder for documentation and to show the correct analysis of dilatations etc.</p> <p>Especially to be used for vessel sizes between 0.5 mm and 50 mm.</p>
<p>Automap</p>	<p>Automap optimizes the procedure workflow, especially during interventions. A selected reference image displaying the needed medical information (e.g. before dilatation) is used as the basis for moving the system to the correlated position automatically. The intervention can be continued immediately without manually repositioning the patient. On the other hand, the system is able to select a reference image for the current device position. In case of changes in device position, this enables the user to see the corresponding reference images quickly and safely.</p>
<p>DICOM RIS-Modality Worklist</p>	<p>Note concerning DICOM interface(s) For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.</p> <p>The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).</p> <p>Functionalities across interfaces with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility.</p> <p>A modification of the interface that might be required is not included in the offer; e.g. for the rare case that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.</p>
<p>DICOM Print</p>	<p>Printing Acquisitions using a Virtual Filmsheet Selecting "Auto-Print" automatically forwards the images stored in the virtual filmsheet to the printer. This optimizes the workflow, eliminating the need for user interaction. In addition, a specific layout can be configured on the virtual filmsheet, which the user can review and edit on the monitor at any time. As a result, printing is only required after the layout has been optimized on the monitor, saving time and costs.</p> <p>Note: For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.</p> <p>The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).</p> <p>Functionalities across interfaces with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility.</p> <p>A modification of the interface that might be required is not included in the offer; e.g. for the rare case that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.</p>
<p>Lower body radiation protection</p>	<p>The lower body radiation protection can be attached to the accessory rails either on the right or on the left side of the patient positioning table. It consists of the following shielding units:</p> <ul style="list-style-type: none"> - A basic unit shielding the area between accessory rails and the floor. It is flexible and can be adapted to the examiner's preferences. - One LB radiation protection pivot swivel element that can move out of the way during collisions with the tube and still retain its protective function. - Two clip-on units pointing upwards from the upper edge of the basic unit with a length of 57 cm and 27 cm.

Product	Description
<p>(Continued)</p> <p>Lower body radiation protection</p>	<p>The scattered radiation shielding units can be attached to the basic unit in an overlapping and fan-shaped way to allow closed, adapted scattered radiation protection even in the lower thorax area.</p> <p>The maximum load of the accessory rails is 40 kg, the weight of the attached scattered radiation protection is 8 kg.</p>
<p>Moveable upper body rad. protection</p>	<p>Radiation protection attached via a ceiling-mounted, mobile stand for protection against scattered radiation; incl. 4 m ceiling rail.</p> <ul style="list-style-type: none"> - Swivable and rotatable around the fixed point, range of rotation 360°. - Counter-balanced, height-adjustable support arm. - Acrylic glass with Pb equivalent of 0.5 eq (w x h: 61 cm x 76 cm), with recess for interventional examinations.
<p>LED Surgical Light</p>	<p>Mach LED 2SC OR light with focusable light system, can be positioned flexibly. Can also be installed on the Portegra2 ceiling support of the portable radiation protection panel. It is therefore fully integrated into the ceiling-installed radiation protection system of the Artis Zee VC21/Q/Zen family.</p> <ul style="list-style-type: none"> - Luminance: 100,000 Lux for 100 cm distance - Field: 60 to 150cm - Color rendering index Ra: 95 - Color temperature: 4,500 Kelvin, single color - Focusable spot size: 14 to 28cm - Diameter of light head: 49cm - Number of LED lights: 21 - Total input power: 30 VA - Max. reach of the spring arm combination: 185 cm - Weight without grip sleeve: 12,5kg <p>OR lamp power connection 230V or 115V possible</p>
<p>Large Display</p>	<p>Display mount</p> <p>Preparation for the large display. The large display area allows for both large display and the free positioning of examination-relevant video signals.</p> <p>The fully integrated tableside control allows for selection from among twelve layout variants.</p> <p>For the diagnostic color display in TFT technology, with high luminance and extended viewing angle, the gamma curve has been adapted particularly for gray scale display according to the CIE / DICOM recommendation.</p> <p>Video signals such as live, assist and reference images, syngo X Workplace, Sensis/recording systems, PACS, HIS/RIS, ultrasound, ECG, external video, endoscope, mapping systems, system and table position, system messages and dose information can be individually positioned and displayed on the Large Display, if connected.</p> <p>The extended Roadmap function is included, if DSA is available:</p> <ul style="list-style-type: none"> - Native live fluoro image during fluoroscopy; otherwise Last Image Hold. - Native live fluoro image during roadmap / subtracted fluoroscopy; otherwise Last Image Hold. - Native live acquisition during DSA acquisition; otherwise native max-fill image. <p>If the dual reference function is available, parallel static reference images are displayed on both reference monitors.</p> <p>Technical specification for the 60" display:</p> <ul style="list-style-type: none"> - Display size (W x H) 60 ", 133 cm x 74.8 cm . - Screen size 60 ", 153 cm - Resolution: 3840 x 2160 (pixels); 8 megapixels at 4 x HD. - Color depth 16.7 10⁶ colors. - excellent brightness over the lifetime: 300 cd/m² at a contrast ratio of 4000:1. - Flicker-free and distortion-free image display.

Product	Description
<p><i>(Continued)</i></p> <p>Large Display</p>	<p>Technical specification for the 55" display:</p> <ul style="list-style-type: none"> - Display size (W x H) 55 ", 121 cm x 68 cm . - Screen size 55 ", 139 cm - Resolution: 3840 x 2160 (pixels); 8 megapixels at 4 x HD. - Color depth 1.07 10⁹ colors. - excellent brightness over the lifetime: 350 cd/m² at a contrast ratio of 1450:1. - Flicker-free and distortion-free image display. <p>Technical specification for the 56" display:</p> <ul style="list-style-type: none"> - Display size (W x H) at 56", 124.4 cm x 70 cm - Screen size at 56", (142.2 cm) - Resolution: 3840 x 2160 (pixels); 8 megapixels at 4 x HD. - Color depth 16.7 10⁶ colors. - excellent brightness over the lifetime: 300 cd/m² at a contrast ratio of 800:1. - Flicker-free and distortion-free image display. <p>Bypass concept In case of error, such as controller failure, the Large Display switches automatically to bypass mode and emergency fluoroscopy is displayed on the Large Display.</p> <p>Backup concept The Large Display has a backup concept to ensure against power supply failure (2 separate power supplies for the left and right sides of the Large Display).</p> <p>Display mount The longitudinally mobile, swiveling, rotating, and height adjustable display holder with normal working range contains a large color flat display. All cables are integrated.</p> <p>Technical data for the display holder:</p> <ul style="list-style-type: none"> - Longitudinal travel range 217.5 cm with 300 cm rails. - Longitudinal travel range 337.5 cm with 425 cm rails. - Height adjustment range 85 cm. - Swivel range (max. system rotation) 300 degrees. - Display swivel range 330 degrees. <p><i>Note: The type of large display can be chosen with a separate position.</i></p>
<p>Large Display video controller 24</p>	<p>The Large Display video controller 24 receives various internal and external video signals for presentation to scale on the Large Display. Up to 24 external and internal video sources can be connected, 18 digital (DVI-D), 3 analog (VGA) and 3 combined analog/digital channels. Important images for diagnostic purposes can be displayed to scale in their original size on the Large Display. Less important, non-diagnostic information can be displayed at a reduced size by the interpolation algorithm for image information integrated in the video controller.</p> <p>An enlarged or reduced display can be selected individually via the display configurations at the fully integrated tableside control. The video controller then takes over interpolation and adaptation of image size.</p>
<p>Sec. operation in the control room</p>	<p>Rail profile (short table attachment) for table operation</p> <ul style="list-style-type: none"> - Weight: 1.4 kg - Rail length: 12 cm - Width: 20 cm - Height: 14.5 cm

Product	Description
<p>(Continued)</p> <p>Sec. operation in the control room</p>	<p>Rail profile (long table attachment) for device operation (with or without table operation)</p> <ul style="list-style-type: none"> - Weight: 2.8 kg - Rail length: 25 cm - Width: 20 cm - Height: 14.5 cm
<p>Intercom - Comfort</p>	<p>Communication / Intercom system for communication between examination room and control room, with additional footswitch for conversation selection in the examination room. Microphone and control box on the console in the control room. With adaptive acoustic filter for background noise suppression in the examination room. Microphone in the examination room installed on the ceiling.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: Intercom - Comfort replaces the old intercom system (without adaptive acoustic filter for background noise suppression). Delivered as an option only, not included in the basic configuration</i></p>
<p>Head holder w/ pad set</p>	<p>The head holder is used to position the patient's head during the examination. Using the cushions or wedges, the patient's head is secured in the head holder. Cushions with large, medium, and small dimensions are included to support the head. The head holder is attached to the narrow tabletop with two knurled screws and a mounting device. Possible only with the 4 cm thick special foam mattress.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: Possible only in connection with the narrow tabletop and thin mattress, the neuro tabletop used previously is no longer possible. Not in conjunction with the Surgery table. Already included in the following basic configurations: - Neuroradiology - Neurosurgery Can also be ordered as an option.</i></p>
<p>Catheter bracket</p>	<p>The stainless steel instrument tray is attached to the accessory rail at the foot end at the same height as the patient positioning tabletop. Dimensions 53 cm x 65 cm (w x l). Max. load: 5 kg.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: Not in conjunction with the Surgery table. Delivered as an option only, not included in the basic system unit</i></p>
<p>Arm holder (pair)</p>	<p>For Artis tabletops, the two arm holders help to laterally position the arms comfortably along the patient's body. They are slid laterally underneath the mattress, level with arms, and fixed by the patient's body weight. The patient's arms can be immobilized with commercially available securing straps (not included). Two pairs of arm holders of different length and height (matching the mattress height) are supplied, that are suitable both for thick and thin mattresses.</p> <p>An arm holder weighs 8 kg.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: Not in conjunction with the Surgery table and multi-section metal / carbon tabletop or the multi-section Surgery metal / carbon tabletop RoW. Already included in the following basic configurations:</i></p>

Product	Description
<p><i>(Continued)</i></p> <p>Arm holder (pair)</p>	<ul style="list-style-type: none"> - Combination Interventional cardiology / radiology - Interventional radiology - Neuroradiology - Combination Interventional radiology / cardiology - Vascular surgery - Neurosurgery <p>Can also be ordered as an option.</p>
<p>Kyphoplasty arm rest "UNI"</p>	<p>This support makes it possible to position the patient's arm comfortably in various positions underneath the tabletop, e.g. in the elbow position at an angle of 90° parallel or transversally to the wide tabletop. The positioning of the arms can be adjusted according to the arm length und thickness with an additional included pad for the armrest.</p> <p>The armrest is attached to the tabletop under the mattress without the need for an additional attachment.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: The armrest for vertebroplasty and kyphoplasty can be used with the wide Artis tabletop. Delivered as an option only, not included in the basic configuration. Not in conjunction with the Surgery table.</i></p>
<p>Kyphoplasty arm rest "CARD"</p>	<p>This support makes it possible to position the patient's arm comfortably in various positions underneath the tabletop, e.g. in the elbow position at an angle of 90° parallel or transversally to the narrow tabletop. The positioning of the arms can be adjusted according to the arm length und thickness with an additional included pad for the armrest.</p> <p>The armrest is attached to the tabletop under the mattress without the need for an additional attachment.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: The armrest for vertebroplasty and kyphoplasty can be used with the wide Artis tabletop. Delivered as an option only, not included in the basic configuration. Not in conjunction with the Surgery table.</i></p>
<p>Tabletop extension</p>	<p>The lateral table extension is used especially in angiography and general radiology for big and obese patients as an additional armrest. It is slid underneath the positioning mattress and fixed by the patient's weight.</p> <p>The lateral table extension consists of radiolucent carbon fiber material, which avoids disturbing edges and shadows in the image. Arm pads made of washable plastic foam material are available on both sides. The patients's arms are immobilized by Velcro straps. Max. load per side 20 kg.</p> <p><i>Ordering information that can be deleted from the final version of the offer follows: Not in conjunction with the Surgery table Delivered as an option only, not included in the basic configuration.</i></p>
<p>Body strap set</p>	<p><i>Ordering information that can be deleted from the final version of the offer follows: Not in conjunction with the multi-section Surgery metal / carbon tabletop or the multi-section Surgery metal / carbon tabletop RoW.</i></p> <p><i>Delivered as an option only, not included in the basic configuration.</i></p>
<p>Narrow tabletop with thin mattress</p>	<p>The visco-elastic comfort mattress for narrow tabletop reacts to temperature and has the special property of adapting to the individual body shape under the influence of body weight and heat.</p>

Product	Description
Eaton Powerware 9355 15 kVA UPS	<p>This UPS is recommended when protection and uninterruptible power is required for the C-arm and table. Emergency fluoroscopy is not available with this UPS. If emergency fluoroscopy is required, the 9390 - 160 kVA UPS is recommended for the full system. One UPS per lab.</p> <p>Operation:</p> <ul style="list-style-type: none"> - Since this UPS is working completely uninterrupted, a power failure is observed when no radiation is available and the display shows "No X-ray please wait". - The Emergency power lamp (red) will light on the power display during a power failure. All stand movements are possible and the image system functions are protected against data loss. Guaranteed back up time: 10 min. - Restoring of hospital's main power supply is indicated when the generator boots again (also green Hospital power lamp lights). Full exposures are available after apx. 75 seconds. <p>Includes UPS, battery, maintenance bypass panel, and one year on-site parts and labor coverage (24x7) by Eaton Powerware.</p> <p>Additional seismic brackets are required to make this system OSHPD approved.</p>
Grey anti-fatigue floor mat for hospital	<p>Industrial-grade anti-fatigue floor mat that provides comfort and durability. As a high-quality product designed to fight fatigue, it provides support for tired, aching feet, legs and back. Beveled edges for safety. Size 3'x5'.</p>