

Date (dd.mm.yyyy): 29.06.2026

Product description: CPQ-1770053

ARTIS one Edition X CA

1 Product Overview

Included products are listed below:

Item	Description	Qty	Rel
	<u>ARTIS one Edition X CA</u>		
1.	ARTIS one Edition X CA 14465263 / Country of Origin: CN	1	R
2.	Wireless Footswitch 14465269 / Country of Origin: DE	1	R
3.	Automap 14432948 / Country of Origin: US	1	R
4.	Mem. expansion 3 (50k - 1k Matrix) 14432940 / Country of Origin: US	1	R
5.	DSA/DR acquisition mode 14443053 / Country of Origin: US	1	R
6.	Fluoro Loop 14432947 / Country of Origin: US	1	R
7.	CLEARstent Live + CLEARstent 14434169 / Country of Origin: DE	1	R
8.	PERISTEPPING (native) 14440563 / Country of Origin: US	1	R
9.	Vascular analysis 14432943 / Country of Origin: NL	1	R
10.	3D Imaging & Processing 14440519 / Country of Origin: DE	1	R
11.	Starter kit CO Thermo 14433001 / Country of Origin: US	1	R
12.	Sensis Vibe Hemo 14443023 / Country of Origin: DE	1	R
13.	ECG radiolucent cable 14432867 / Country of Origin: US	1	R

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14.	Kit reusable pressure transducers 14455884 / Country of Origin: DE	1	R
15.	IBP adapter Y-splitter 14455815 / Country of Origin: US	1	R
16.	Lower body radiation protection 14432953 / Country of Origin: GB	1	R
17.	Moveable upper body rad. protection 14434157 / Country of Origin: DE	1	R
18.	LED Surgical Light 14440513 / Country of Origin: DE	1	R
19.	Large Display 14465267 / Country of Origin: DE	1	R
20.	Arm rest 14440459 / Country of Origin: DE	1	R
21.	Intercom - Comfort 14440411 / Country of Origin: DE	1	R
22.	DICOM Print 14432917 / Country of Origin: DE	1	R
23.	DICOM RIS-Modality Worklist 14432950 / Country of Origin: DE	1	R
24.	DICOM MPPS 14432951 / Country of Origin: DE	1	R
25.	Factory Inst Artis one 14440562 / Country of Origin: DE	1	R

T O T A L quantity is for one system

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Optional products are listed below:

Item	Description	Qty	Rel
	<u>ARTIS one Edition X CA</u>		
	<u>T O T A L quantity is for one system</u>		

2 Technical description

Item	Description
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1. **ARTIS one Edition X CA**

System description

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 cardiology with combined applications.

C-arm floor-mounted stand

The floor-mounted C-arm provides high positioning flexibility, comparable to a ceiling - mounted system.

The motorized movement of the C-arm from a head-end position to lateral positions provides free access to the patient's head and can reach from head to toe.

The C-arm can be rotated and allows motorized transverse and longitudinal movement. The system therefore provides 1.9 m lateral coverage and 2.1 m longitudinal coverage.

- Up to 8 preprogrammed work positions and an additional 70 user-defined work positions and 3 direct positions can be stored and recalled from table side.
- 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 35° to the left side of the patient longitudinal axis.
- Variable C-arm speeds up to 25°/s (up to 60°/s for 3D).
- Variable focus-to-detector distance between 90 cm and 120 cm.
- Isocenter-floor distance 107 cm.
- Focus-isocenter distance 75 cm.

Double oblique projections:

- LAO/RAO: $\pm 130^\circ$
- Cranial max. 55°
- Caudal 45°

Table:

- Direct patient access from all sides, both through the swiveling table and large tabletop cantilever.
- Mechanical triggering of table rotation using the table foot pedal, accessible from both sides.
- Telescopic foot with motor-driven height adjustment.
- Maximum patient weight: 250 kg. It is possible to install up to 100 kg of additional accessories, plus a further 60 kg for patient resuscitation.
- The table can be rotated to ensure quick access to the patient even in emergency situations.

Tabletop

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Patient positioning tabletop made of carbon fiber for universal use.

Mattress

Matching, special-foam mattress, 4 cm, incl. a latex-free cover.

This visco-elastic comfort mattress reacts to temperature and has the special property of adapting to the individual body shape under the influence of body weight and heat.

Application-specific accessories:

- Infusion bottle holder
- ECG cable clips
- Unilateral armrest: Carbon fiber armrest for cardiology and arm angiography to slide underneath the positioning mattress.
- Hand switch for radiation release and additional control functions.

Fluoroscopy

Digital pulsed fluoroscopy with pulse frequencies of 7.5 p/s, 10 p/s, 15 p/s, and 30 p/s in full image resolution. Pulse rates of 0.5 - 4 p/s are included as part of 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.

Card acquisition

Digital card acquisition technology with frame rates of 7.5, 10, 15, and 30 f/s acquisition, display, and storage in 1k matrix.

CARE package

ALARA principle

Siemens follows the ALARA principle: "As Low as Reasonably Achievable"; the CARE package (Combined Applications to Reduce Exposure) was developed based on this research and development principle to protect the examiner and the patient.

Dose saving:

- CAREfilter: Intelligent control software that minimizes X-ray dose. 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 with as20 detector: Pulsed fluoroscopy with additional, reduced pulse rates of 0.5, 1, 2, 3, 4, 6 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure, especially during interventional procedures.
- CAREvision with as40 / as30 detector: Pulsed fluoroscopy with additional, reduced pulse rates of 0.5, 1, 2, 3, 4 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure,

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| | <p>especially during interventional procedures.</p> <ul style="list-style-type: none">- 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 67 % during the examination. The Low Dose Acquisition protocol can be released with a separate pedal on the footswitch. |
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Dose monitoring:

- 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, considering 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.

Dose documentation:

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.

CLEAR package

The CLEAR package enables optimized image quality through real-time processing of the image data without increasing the radiation dose.

- 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

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| | <p>user corrections through windowing.</p> <ul style="list-style-type: none">- CLEARview: Dose-dependent filtering of the image data efficiently suppresses image noise, enabling clear, sharp images, even for low-dose acquisitions.- CLEARvessel: Every pixel is analyzed in real-time, and vessel edges are shown in high contrast without adding noise to the image.- CLEARmotion: Fine moving structures, such as small vessels and guidewires, are detected in the image and motion artifacts are suppressed efficiently. The visibility of small moving vessels and guidewires is improved significantly during fluoroscopy. |
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In addition, there is Dynamic Density Optimization (DDO) for on-line harmonization of native series and single images.

Image generation

X-ray generator

Microprocessor-controlled high-frequency X-ray generator with automatic dose rate control.

- Power output: 100 kW at 100 kV (IEC 60601-2-7 and IEC 60601-2-54), nominal power max. 80 kW (100 kV, 800 mA, 0.1 s) with MEGALIX Cat plus tube and the newest flat emitter technology.
- 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.
- Patient transparency monitoring.
- Tube load monitoring with indication in the live display.

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.

Tube assembly MEGALIX Cat Plus 125/40/90

Dual-focus high-performance X-ray tube assembly with flat emitter technology for angiography, with metal center tube in lubricated spiral groove bearing technology for permanent, noise-free rotation.

- Maximum tube voltage 125 kV
- Focus: 0.4/0.8 (35/90 kW)
- Anode angle 8.5°
- Maximum anode heat storage capacity: 3,375,000 HU
- Maximum tube current for fluoroscopy: 250 mA

High tube power provides brilliant image quality even with heavier patients. In addition, there is no need for X-ray pauses even during lengthy cases. The X-ray tube is completely silent, which is an additional benefit for patient and user.

as30 flat detector

The high-resolution dynamic flat detector with integrated removable grid is especially designed to fulfill the requirements of interventional cardiology and radiology.

184 µm pixel arrays provide highest spatial resolution and excellent contrast. Fluoroscopy as well as image acquisition are always done in 1k matrix and 16-bit

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	gray scale resolution with high detail visibility. Acquisition frame rates of up to 30 f/s are possible (up to 66 f/s with 3D).
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Usable input formats (diagonal):

- Overview: 39 cm
- Zoom 1: 32 cm
- Zoom 2: 25 cm
- Zoom 3: 20 cm
- Zoom 4: 16 cm
- Zoom 5: 11 cm

The compact design with integrated collision protection provides maximum C-arm angulation range for excellent patient access.

The flat detector is mounted on a motorized rotating turntable at the C-arm. This ensures upright presentation of the anatomy on the monitor screen independent of the relative position of the C-arm to the patient at all times.

Motorized adjustment of the detector-patient distance.

Removable grid

The grid can easily be removed, saving the user time in examinations not requiring a grid. For example, in pediatrics, where dose saving is especially important.

Cardiac collimator

Compact multileaf collimator with rectangular collimator and wedge-shaped filter.

- Automatic synchronous rotation of detector and collimator unit to compensate image rotation in the different working positions of the gantry.
- Rotation also possible via table side control enabling upright images of objects or body parts not aligned with the table, e.g. arms.
- Five-step adaptive Cu pre-filtration (CAREfilter) to reduce the equivalent skin dose and improve radiation quality through dose saving for the soft radiation parts. Filter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu.
- Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing, for acquisition of the dose-area product and the calculated patient entry dose (CAREwatch).

StraightView

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.

Image processing:

- Image display as positive and negative, windowing, contrast and 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 for acquisition and fluoroscopy.
- Quantification: Angle and length measurements, automatic and manual calibration.
- Text functions: User-definable image annotation, free annotation or by means

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| | <p>of text components, comments line for the image, R/L display.</p> <ul style="list-style-type: none">- Fast and direct access to all series, single images, reference images, and photo file images via MULTIMAP. Access possible both in the examination and in the control room for displaying or post-processing images. |
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Imaging system

Image storage capacity

25,000 images in 1k/12-bit image matrix.

This can be optionally extended to 50,000 / 100,000 images.

Image export and networking

DVD/CD burner

DVD drive for automatic digital image storage in the background on DVD-/CD-ROM for off-line data exchange in DICOM format.

Networking

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 examinations without interruption, while the system is fully automatically transferring the images to the archive scene by scene. This is a background process, and thus does not interfere with the ongoing fluoroscopy or acquisition.
- DICOM Storage Commitment (StC): Feedback from the image archive. The DICOM StC function automatically gives feedback on whether the generated image data were successfully transferred. This provides the necessary certainty to the user before deleting the acquired images locally in the imaging system.
- DICOM-Query/Retrieve: Retrieval of archived images from a digital archive or from a workstation: Already archived image data from a previous examination can be fully retrieved and is then available for review and processing.
- DICOM Structured Report: All the quantification results obtained on the system as well as all dose information on the individual radiation releases can be saved in DICOM SR (enhanced SR) format and transferred to a DICOM network.

Note concerning DICOM interface(s)

The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

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.

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.

Displays in the exam room

Live and reference display integrated in 30" display. In addition, up to four external video sources can either be shown simultaneously or in separate, switchable layouts.

- Screen size: 30" (76 cm)
- Resolution: 2560 x 1600 (pixels)

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| | <ul style="list-style-type: none">- Excellent brightness for the entire service life: 400 cd/m² at a contrast ratio of 800:1.- Flicker-free and distortion-free image display. |
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Data for device and table position, dose, and system messages are displayed in the examination and control room.

Displays in the control room

21" color display for live image display in the control room is included as a desktop version with a black frame.

Display suspension

Ceiling-mounted, swiveling, rotating, and height-adjustable display suspension system. Standard equipment includes 30" display for live and reference image display as well as 3D in the examination room.

Operation

syngo

The intuitive *syngo* operating elements allow for managing the whole process from preparation of the patient to image post processing in a safe, reliable, and time efficient way.

In the examination room

For an ideal workflow, full operation capabilities for the system can be accessed directly at the patient table. These include complete system operation through modular control elements for controlling C-arm movements, the patient table, and the multileaf collimator.

syngo-based multi-functional joystick with on-screen menu guidance, for operation of the imaging system, including post-processing and selection of the organ programs. The on-screen menu and the control module buttons are specifically configurable to individual clinical requirements.

This means that the user can operate the system on their own without having to leave the examination room if this is deemed necessary by the situation.

In the control room

Standard Siemens *syngo* control via country-specific keyboard and mouse for all imaging system functions such as image post-processing, storing, and configuring of organ programs.

Customer Care

From the moment you purchase your Siemens system you will benefit from many services that are offered by "Customer Care"*. These include:

- Initial application training
- Interactive e-learning for various applications
- Free customer magazines
- Arrangements for clinical training via a global network
- Free trial licenses

You will find information on our e-learning program and further details on general "Customer Care" services on the Internet.

* The availability of "Customer Care" services may be restricted for some

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systems.

User Training

Siemens recognizes the significant investment you are making in purchasing a new imaging system and are determined that you are able to realize the full capability of this new system. Siemens clinical applications training ensures you have every opportunity to fully utilize your new system.

Content of user training:

- Handover Training and Follow-up Training
- Introduction to the functions, options, and handling of the Angiography system.
- Instruction on the use of the Angiography system together with modern, highly developed applications.

Delivery & duration of the user training varies and may be country specific so for additional information please contact your local Siemens representative.

2. **Wireless Footswitch**

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3. **Automap**

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.

4. **Mem. expansion 3 (50k - 1k Matrix)**

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5. **DSA/DR acquisition mode**

Digital acquisition technology with frame rates of 0.5 to 7.5 f/s in full resolution (up to 2.22 megapixels), 12-bit image matrix and digital real-time filtration. Single image and serial acquisitions with time-controlled and manually variable frame rate.

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.

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%.

Includes the "Advanced Roadmap" additional function which offers the following clinical benefits:

- DSA image can be selected as a mask for Roadmap
- Zoom can be changed during Roadmap
- Catheter and vascular contrast can be changed separately

In case of unexpected patient movements during DSA acquisitions, the subtracted images should be realigned to ensure optimal image quality. This can be done either with the manual pixel shift, or more conveniently with the ROI-based auto pixelshift.

6. **Fluoro Loop**

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7. **CLEARstent Live + CLEARstent**

CLEARstent Live allows real-time verification of stent positioning while moving the device. This enables the physician to precisely position the stent in relation to the anatomy of the heart and stents that already have been implanted. Contains both CLEARstent Live license and CLEARstent license.

The CLEARstent imaging function allows an improved display of fine stent structures, i.e. the grid of inflated stents. CLEARstent is a post-processed stent enhancement and may be used also on previously acquired images. Using the CLEARstent function special reference images from any scene or fluoroscopy scene acquired natively will be generated. Composite images are created by averaging several frames of a scene and by considering the alignment of balloon markers. If an ECG signal is available, the heart phase will also be considered.

8. **PERISTEPPING (native)**

The individual steps are released by a manual switch. Stepping distances are matched to the flat detector 26 x 29.

- Position-dependent variable frame rates.
- Fully automatic exposure control.
- Automatic storage of the collimator setting for each step.

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9. **Vascular analysis**

Measuring program integrated in the imaging system for objective, precise and reproducible evaluation of vessels.

- Automated contour detection
- Determination of degree of stenosis
- Automatic and manual reference diameter determination
- Automatic and manual calibration methods
- Distance and angle measurement

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.

Especially to be used for vessel sizes between 0.5 mm and 50 mm.

10 **3D Imaging & Processing**

syngo Dyna3D facilitates the interactive, high-contrast 3D reconstruction and visualization in real time of a volume in volume rendering technique, MPR and MIP.

The primary reconstruction results are available in the examination room within 18 seconds in diagnostic quality. Subsequent secondary reconstructions are even faster.

syngo DynaCT Cardiac allows the use of proven 3D reconstruction for contrasted X-ray projection images of ventricles and vessels of the heart. *syngo* DynaCT Cardiac contains reconstruction algorithms for untriggered 3D acquisitions (one C-arm rotation, approx. 5 seconds exposure time).

Features:

- 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.

Clinical applications currently supported by DynaCT Cardiac

Electrophysiology:

3D visualization of the left atrium to support ablation of atrial fibrillation (segmentation of the left atrium using EP extension, must be ordered separately).

Interventional cardiology/surgery:

Support before, during and after heart valve replacement through 3D visualization

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of the aortic valve and coronary ostia.

The *syngo* 3D Viewer provides interactive, real-time 3D visualization using volume rendering techniques, and is suited particularly to support online diagnosis and intervention planning.

The application provides interactive volume rendering with a high-end graphics card and supports large datasets for up to 1,600 slices (512 x 512 matrix) and quality lighting effects.

Image data:

- Volume data from AX, CT, MR, and PET modalities.
- Up to 1,600 slices (512 x 512 matrix) without loss of resolution.

Image display modes:

- VRT, Color VRT, MIP, MinIP, and MPR rendering.
- Thin slice renderings for VRT, MIP, and MinIP.
- Changeable light source and shading effects.

Volume editing:

- Definition of clip planes.
- VOI Punch

Presets:

- Iconized bookmark with rendering presets per datasets, to store and retrieve volume visualization parameters (punch, lighting adjustment, windowing, layout).
- Iconized global presets of volume visualization parameters.

Output:

- Parallel 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.

3D Accessories

Contains accessories required for 3D reconstruction:

- Plexiglas calibration phantoms.
- Line phantom for image quality control.
- Form filter
- 3D data link

This option also includes the DR Acquisition mode Digital acquisition technology: 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.

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11 **Starter kit CO Thermo**

Sensis VC12 and Sensis Vibe Combo:

- CO intermediate cable (1.0m) connecting the CO accessories with the HemoMed pod.
- CO catheter cable connecting the CO catheter with the intermediate cable.
- CO Thermistor Cable connecting with the Ohmeda Thermistors.
- CO Thermistor Cable connecting with Edwards Thermistors.

Sensis Vibe Hemo:

- Edwards CO Trunk Cable connecting the CO accessories with the HemoBox.
- Argon CO Trunk Cable connecting the CO accessories with the HemoBox.

12 **Sensis Vibe Hemo**

Sensis Vibe is the vital core where all events, decisions, measurements, and data from your procedures are captured. It reduces administrative effort and standardizes documentation and reporting* across interventional entities. Sensis Vibe intuitively blends into the rhythm of the interventional floor and tunes up your workflow efficiency.

*For documentation and reporting, see recommended options.

System hardware configuration

HemoBox signal input unit (dimensions 147 x 230 x 80 mm; with cabling, pressure transducer adapter for previous signal input box and mounting kit for Modura table rail and IV poles; liquid ingress protection class IPX4).

For non-invasive blood pressure, four invasive pressure inputs, four invasive pressures dP/dt, SpO2 oxygen saturation, 12-channel ECG, respiration rate from capnography (option). With table-side buttons for balancing, NIBP measurement, cardiac output and muting audible vital signs alarms.

Examination room:

Either cabling kit for connection to Large Display and mid-size display (Artis one) or one

19" monitor with mounting kit and cabling:

- Resolution: 1,280 x 1,024 (pixel)
- Excellent brightness for the entire service life: 137 cd/m² at a contrast ratio of 300:1.
- Flicker-free and distortion-free image display.
- Meeting the strictest medical, safety and EMC emission standards.

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Control room:

- PC, keyboard, mouse

19" Monitors:

- Resolution: 1,280 x 1,024 (pixel)
- Excellent brightness for the entire service life: 137 cd/m² at a contrast ratio of 300:1.
- Flicker-free and distortion-free image display.
- Meeting the strictest medical, safety and EMC emission standards.

The "Respiration from ECG" is not longer available in VD15 and later. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

Acquisition software

Sensis Hemo application

Acquisition software to support monitoring and full disclosure recording of vital signs and invasive measurements and calculations of hemodynamic parameters in adult and pediatric cardiovascular interventions, such as left and right heart catheterizations, heart valve examinations and general angiography procedures.

The system features a comprehensive, user-adaptable catheter site list. Pullback measurements can be done using one of the following methods: single pullback, sequential pullback, virtual pullback.

As a standard, the system provides the following calculated and derived hemodynamic parameters: pressure calculations, rate of pressure change (dP/dtmax), gradients, shunts, cardiac output, valve area, work and power, cardiac index, flow and stroke volume, resistances, regurgitation.

Measured values, calculated and derived parameters can be compared, analyzed and edited (what-if scenarios) in flow sheet structured by procedure conditions. Sensis Vibe comes with a redesigned, lean user interface for mouse- and keyboard-based operation with customizable hot keys and adjustable split-screen mode.

Waveforms display can be programmed for layout and color. Can be displayed on up to five configurable pages per procedure type.

- Workflow support license
- Vital signs alarms license and audio module
- FFR and DFR licenses to integrate Boston Scientific, Abbott, ACIST and OpSens FFR devices.

Productivity Tools:

- *syngo* multitasking operating system
- *syngo* database system
- Sensis Security Manager
- Sensis Communication Manager
- Sensis Configuration Manager
- Artis interface for bi-directional data exchange (patient data, X-ray snapshots, dose data, ECG signal, table-side Sensis operation), ethernet-based.
- Ethernet communication to hospital network
- DICOM worklist

Item	Description
	- DICOM MPPS license - Export waveforms** - Generic printer interface (see data sheet for minimum requirements) - Archiving via central DICOM nodes - Export of discrete values via ASCII flat file or XML.

**These products/features are not commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

Accessories and parts included in delivery:

- Starter kit vital signs
- ECG cable kit (IEC1 and IEC2)
- HemoBox analog out cable

Recommended options (not included in delivery):

- Sensis UPS
- Sensis Vibe FlashDoc (Master or Client)
- Additional interfaces (if applicable)
- Report workstation licenses to enhance the documentation workflow outside the control room.
- Upgrades to Sensis Vibe or compatible versions for your existing Sensis units.
- Starter kits to ensure everything is in place for your first Sensis Vibe-guided procedure.

Ready for:

- Siemens Healthineers Remote Service (during warranty, option for service contract).
- Interface and database customization (offered via customer service).

It is mandatory to have a power backup for Sensis. A UPS needs to be provided either by the hospital or purchased from Siemens Healthineers. The minimum requirements for the UPS are defined in the Sensis data sheet.

Training

Siemens Healthineers recognizes the significant investment you are making in purchasing a new recording system and are determined that you are able to realize the full capability of this new system. Siemens Healthineers clinical applications training ensures you have every opportunity to fully utilize your new system.

Content of user training:

- Instruction on system, operator and patient safety
- Instruction on operation of the system
- Instruction on proper cleaning of the system
- Instruction on basic and advanced waveform set-up and processing

PEPconnect:

Your smarter connection to knowledge in digitalizing healthcare (<https://pep.siemens-info.com>).

Delivery & duration of the user training varies and may be country specific. For additional information please contact your local Siemens Healthineers

Product description:
Date (dd.mm.yyyy):

CPQ-1770053
29.06.2026

Item	Description
------	-------------

representative.

13 **ECG radiolucent cable**

Contains:

- Radiolucent limb lead electrode cable kit
- Radiolucent chest lead electrode cable kit

Product description:
Date (dd.mm.yyyy):

CPQ-1770053
29.06.2026

Item	Description
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14 **Kit reusable pressure transducers**

Including:

- 4x Memscape SP 844 pressure transducer.
- Adapter cable for Sensis.

Not included:

- Disposable accessories (plastic domes and line sets).
- Mounting for pressure transducer.

15 **IBP adapter Y-splitter**

Product description:
Date (dd.mm.yyyy):

CPQ-1770053
29.06.2026

Item	Description
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16	Lower body radiation protection
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17	Moveable upper body rad. protection
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Product description:
Date (dd.mm.yyyy):

CPQ-1770053
29.06.2026

Item	Description
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18	LED Surgical Light
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19	Large Display
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Item	Description
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20 **Arm rest**

21 **Intercom - Comfort**

The following is included:

- A microphone with a control box for the control room.
- A microphone with an adaptive acoustic filter for background noise suppression for the examination room.
- A foot control for call selection for the examination room.

Item	Description
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22 **DICOM Print**

Printing Acquisitions using a Virtual Film sheet

Selecting "Auto-Print" automatically forwards the images stored in the virtual film sheet to the printer. 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.

Note:

For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.

The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

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.

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.

23 **DICOM RIS-Modality Worklist**

Note concerning DICOM interface(s)

For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.

The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

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.

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.

Item	Description
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24 **DICOM MPPS**

Sent in MPPS:

- Total dose-area product
- Number of exposures
- kV per image (DICOM Exposure Dose Sequence)
- ms per image
- mA per image

Note concerning DICOM interface(s)

For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used.

The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s).

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.

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.

25 **Factory Inst Artis one**