AXIOM Artis U
The little big one
for universal angiography and cardiology applications
AXIOM

The versatile system for universal angiography and cardiology applications
Unchain your workflow!

Ease of Use
User-friendly system to optimize your clinical workflow

Image Quality
Powerful generator for exceptional image quality

Care
Optimize dose reduction without compromising image quality

Connectivity
Access the information you want — almost anytime, anywhere — with DICOM and syngo

AXIOM Artis U’s progressive technology is based on the four pillars of the AXIOM concept: outstanding image quality, comprehensive networking capabilities, easy handling and maximum care for patient and clinical staff. All designed with a single objective in mind: to unchain your workflow!
AXIOM Artis U is a “room-mobile” C-arm for a wide range of applications. We have taken the components of our high-end angiographic system and put them into a compact C-arm. The AXIOM Artis U bridges the gap between portable and fixed mounted systems and has an excellent price-performance ratio that meets the needs of any department.

- stunning image quality
- compact, “room-mobile” design
- broad applications spectrum
- durable system requiring low service maintenance
- excellent price-performance ratio
Ease of Use

User-friendly system to optimize your clinical work routine

Specifically designed to provide a broad range of applications, the AXIOM Artis U provides in-room mobility with an easy-to-use interface.

Flexible and easy C-arm positioning
The AXIOM Artis U could not be easier; with the push of a button, the electromagnetic brakes allow for quick, easy C-arm positioning. The C-arm is perfectly balanced for precise positioning. The motorized lift provides added convenience in your daily work routine.

System control within arm’s length
The ergonomic design of the tables side control allows convenient system operation, either on the trolley or tables side in a sterile environment. The user interface is virtually self-explanatory; universal icons make it easy for an operator to quickly learn the system.

Dedicated, yet mobile
The C-arm is dedicated to a specific room. This eliminates sharing the system with other departments. The C-arm can be moved out of the way to free the room for other applications.
AXIOM Artis U supports a wide range of applications for universal angiography, angiocardiography, endovascular and non-vascular interventions.

The “room-mobile” C-arm and trolley with tableside control for C-arm functions make AXIOM Artis U an extremely practical system to work with.
Apart from its ease-of-use and universal capabilities, the AXIOM Artis U offers excellent image quality. The combination of a strong imaging chain and proven imaging system provides exceptional image quality.

**High output generator**
A high-output generator guarantees the image quality of a high-performance angiography suite. The system can be configured with a 65 or 80 kW generator, both capable of providing the power to penetrate dense anatomy.

**High-heat-capacity X-ray tube**
The heat capacity of the OptiTop X-ray tube has 783 kHU. This almost eliminates downtime for cooling. Image quality will not degrade during long interventions.

**Image intensifier tailored to your needs**
The system can be configured with either a 23 cm (9") or 33 cm (13") image intensifier. The high DQE of the image intensifier not only guarantees lower doses, but ensures great image quality. This combined with a specially designed full-sized CCD camera (1k x 1k matrix) allows you to visualize detailed information with striking results.

**DDO – Digital Density Optimization**
The contrast, brightness and greyscale are electronically optimized to help you see hidden details all in one image. Digital adjustment of the 10-bit greyscale further enhances contrast in critical regions and provides even greater detail recognition. Fine vascular structures distributed over dense areas (e.g., diaphragm or spine) are just as visible as those located over the lungs, for example.

**Postprocessing with LEONARDO workstation**
Used in combination with the LEONARDO workstation, AXIOM Artis U enables you to postprocess captured images for optimization, thereby providing you with additional diagnostic support for further treatment decisions.

**Flat-panel displays**
Compact and light, the Siemens TFT monitors provide excellent image quality and long lasting reliability. AXIOM Artis U provides excellent real-time and reference images displayed on high-resolution, high-contrast and flicker-free TFT flat displays located on the trolley.
AXIOM Artis U’s universal applications spectrum covers a wide range of imaging procedures in angiography, angiography, orthopedics and pain therapy.
A system built for patient and staff well-being

Giving special attention to the patients and medical staff, AXIOM Artis U is equipped with highly advanced dose-reduction technology.

**CAREMATIC – automatic dose calculation**
CAREMATIC, an integrated dose control function, provides fully automatic calculation and optimization of exposure data on fluoroscopy values.

**CAREVISION – variable pulse frequency for fluoroscopy**
With CAREVISION, AXIOM Artis U allows you to adjust the pulse frequency to meet the requirements of each individual application. Capable of pulsed fluoroscopy of 3.0; 7.5 and 15 pulses per second, the system exposes patients and staff to significantly less dose, particularly during interventions.

**CAREFILTER – smart filter adjustment**
The adaptive copper prefiltration function CAREFILTER, offering filtration levels of 0.1; 0.2 or 0.3 mm Cu, automatically adjusts the filter to the individual anatomy of the patient. Calculated on the basis of the organ program or the absorption density of the patient, skin dose values are kept to an absolute minimum while the image contrast is maintained.

**CAREPROFILE – collimation without radiation**
CAREPROFILE enables radiation-free positioning of the collimator and semitransparent filters with the help of the graphic display in the last-image-hold (LIH) frame.

**CAREWATCH – comprehensive dose monitoring**
CAREWATCH provides you with real-time updates of all relevant dose levels on the imaging system’s display monitor. CAREWATCH enables configuration of different displays for fluoroscopy (skin dose rate) and fluoro pause (accumulated skin dose, area dose product or percentage of a configurable dose limit value).

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*Results may vary. Data on file.*
In designing AXIOM Artis U, special attention was given to protecting the well-being of both patients and medical staff.

AXIOM Artis U is equipped with the highly advanced dose reduction technology of C.A.R.E. (Combined Applications to Reduce Exposure).
Leveraging the advantages of full DICOM compliance

With its full DICOM compliance, AXIOM Artis U enables you to leverage the advantages of a common imaging standard, thereby significantly streamlining the overall workflow of your radiology or cardiology department. Thus reducing costs in the process.

Seamless integration into existing IT
AXIOM Artis U is designed to support all DICOM services, including Print, Get Worklist, MPPS, Storage Commitment, Query/Retrieve and Send. It seamlessly integrates into your existing archiving and information systems, such as HIS, CIS, RIS and PACS.

Expand your communication
Whether to access patient demographic and clinical history data, transfer examination results, print images, or to forward them to the archiving system, AXIOM Artis U greatly expands your communications capabilities in many ways. Additionally, all of these functions can be performed directly from the examination room.

Recording examination data on CD or video
With the optionally integrated CD burner, AXIOM Artis U allows you to transfer examination results directly to CD for documentation and storage – or simply to provide patients and referring physicians with an immediate copy. Image information can optionally also be recorded on video.
With its full DICOM compliance, AXIOM Artis U fits seamlessly into your existing information network.
AXIOM Artis U –
Accelerating the procedural flow of your radiology or cardiology department

AXIOM Artis U can significantly accelerate the overall procedural flow of your department. With its full DICOM support, preset organ program options, quick setup times, as well as easy and convenient system handling, AXIOM Artis U streamlines your workflow.

**Examination preparations**

Pre-programmable system options, automatically setting exposure parameters for various routine organ procedures, allow you to concentrate on the examination at hand, rather than on the technology. Given the “room-mobile” qualities of the C-arm and trolley, system components are quickly brought into position and setup times are highly reduced.

**Diagnoses and interventions**

Ergonomic and efficient handling qualities of the C-arm make AXIOM Artis U a practical system to work with during diagnoses and interventions. With its extraordinary image quality, AXIOM Artis U supports performing diagnostic and treatment procedures, such as the placement of stents and other implants.

In addition, the imaging system performs numerous functions such as object and vessel measurement. If repositioning within the room becomes necessary due to e.g. anesthesiological procedures requiring additional equipment, AXIOM Artis U is easily rolled to the desired location.

**Documentation**

Once the examination is completed, AXIOM Artis U enables documentation of examination data in various media. Network, optional CD or video archiving, documentation via laser camera or postscript printer, as well as various hard copy formats accelerate the administrative tasks.
AXIOM Artis U significantly accelerates the procedural flow of your department.

With the "room-mobile" C-arm and trolley, setup times are highly reduced.

Pre-programmable system options let you concentrate on the patient, rather than on technology.

AXIOM Artis U can be optionally equipped with a series of convenient system features such as an integrated CD burner.
In step with medical engineering innovation

System configuration and installation support
With our well-trained and experienced staff of service engineers worldwide, we support you during every step of the planning and installation phase of your new system. Our qualified technicians are on hand from day one to provide you with assistance in selecting the appropriate room setup to meet the individual needs of your clinic. To minimize downtime and reduce costs, system installation is conducted quickly and efficiently, allowing you to get right to work with your new system.

On-site applications training
Staff training and support programs are of vital importance for handling the demanding challenges arising in your daily clinical environment, particularly given the rapid pace of technological advancement. Our global applications team, a group of highly trained and experienced specialists, is committed to assisting your staff in quickly acquiring the skills needed to operate our systems. As part of our comprehensive services package offer and dedication to professional partnership, these valuable resources are available to you along with our technology.
Proven Outcomes.
Proven Outcomes. This is what Siemens is helping to deliver right now. Outcomes that result from truly efficient workflow. Outcomes that improve your bottom line. Outcomes that lead to a level of care that feels exceptional to the patient and the care provider. Proof positive of the value of integrating medical technology, IT, management consulting and services. In a way that only Siemens can.
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