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# Artis zee EP Suite

Making your EP lab a better place to work

Answers for life.





## Imprint

Imaging Excellence  
Enhanced Workflow  
Investment Confidence  
A comprehensive EP portfolio

## zee new possibilities in electrophysiology

Innovations in electrophysiology have created a strong demand for highly integrated solutions capable of supporting smooth workflows for the most complex procedures.

Siemens has put together one of the most forward-oriented portfolios for electrophysiology, an integrated solution for enhanced patient care: the Artis zee EP Suite. Covering everything from recording to 3D guidance.

**All designed to set new standards of efficiency in the EP laboratory.**

**Artis zee EP Suite**



## zee more every step of the way

The outstanding 3D imaging capabilities of Artis **zee** EP Suite lead the way through the EP procedure: from acquisition to ablation.

By delivering high-resolution CT-like images within seconds directly in the EP lab, *syngo* DynaCT Cardiac allows you to widen the 2D imaging spectrum of the heart to 3D.

Following acquisition, one mouse click is all that is needed to segment the left atrium out of the dataset. The segmented image can then be overlaid on the live fluoroscopy image for better catheter guidance.

With the Artis **zee** Large Display, a full color 56-inch screen, you now have the whole picture directly at tableside. One large screen capable of displaying up to 24 inputs with superb image sharpness and detail resolution.

### Step 1



## 3D acquisition

### *syngo* DynaCT Cardiac

With the help of rotational angiography, *syngo* DynaCT Cardiac creates CT-like 3D images of the beating heart directly in the cath lab – in less than one minute. ECG-gated acquisition enables visualization of the coronary sinus and the ventricles.

### Step 2

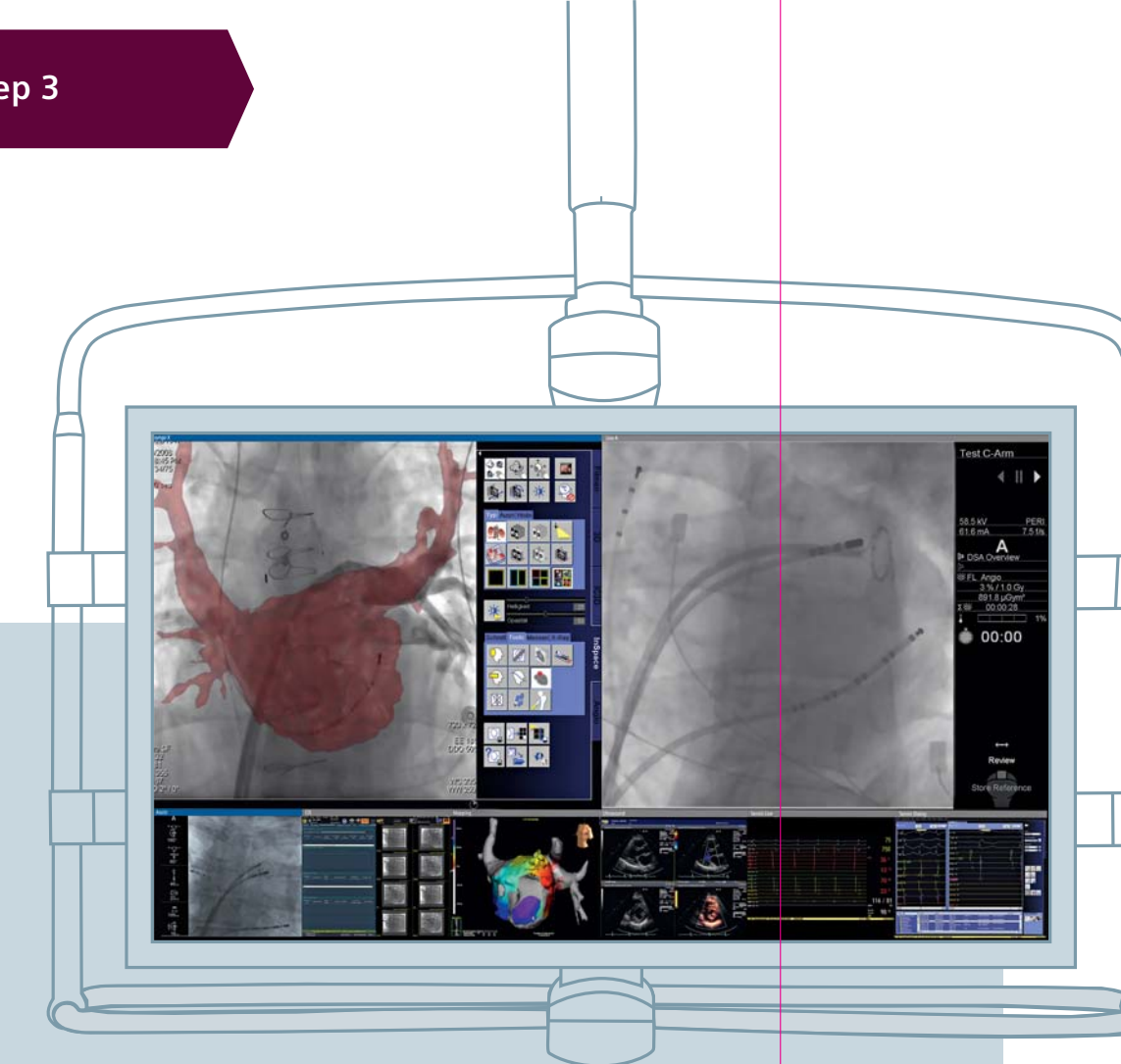


## Segmentation

### *syngo* InSpace EP

With its unique one-click segmentation, *syngo* InSpace EP allows quick and convenient segmentation of the cardiac chambers, thus reducing time-consuming manual interactions. The 3D segmentation image can be explored via an endoscopic view.

### Step 3



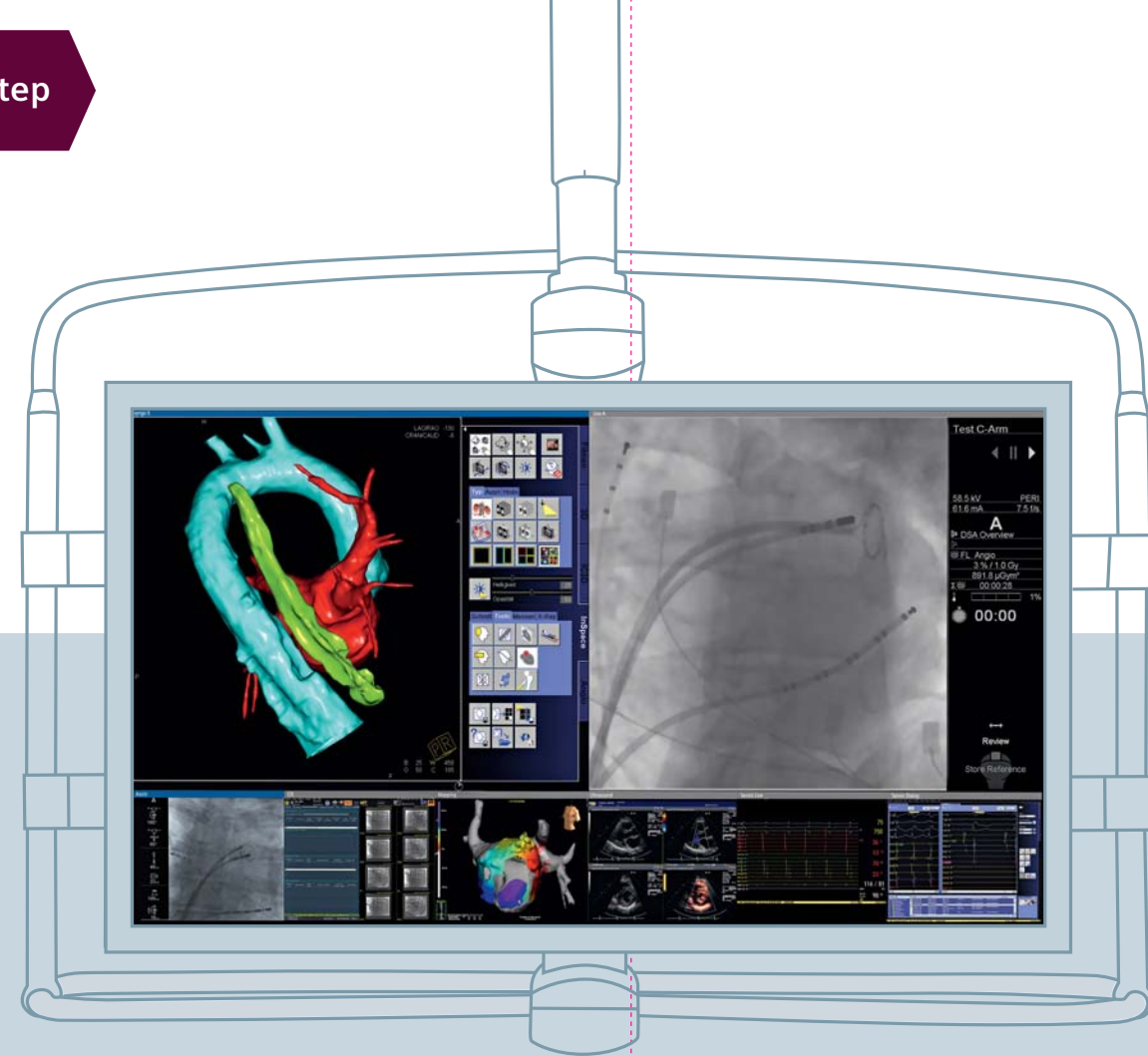
## Guidance

### *syngo* iPilot

Catheter guidance during ablation can be enhanced with the help of *syngo* iPilot, which provides an overlay of 3D segmentation results from MR, CT or *syngo* DynaCT and the live fluoroscopy. Angulations, even table movements, are synchronized between the 3D view and the Artis **zee** imaging system.



## Additional Step



## Multi-Segmentation

**syngo InSpace EP**

In an additional step, the 3D segmentation of the left atrium can be combined with adjoining structures such as the esophagus and aorta. Apart from helping to reduce the risk of arterial fibrillation procedures, the multi-segmentation image is also an ideal planning tool.

## Alternative Step



## Electroanatomical mapping

**Merging with navigation**

Segmentation results from syngo InSpace EP can be transferred to an electroanatomical mapping system such as CARTO™ or Ensite. Image integration software modules combine the electro-anatomical mapping and anatomical precision of syngo DynaCT Cardiac images. The result: optimized orientation through anatomical structures during ablation procedures.

# Three-step 3D guidance

Exceptional image quality and unmatched workflow efficiency from acquisition to 3D guidance:

Artis zee EP Suite sets new standards for electrophysiology. As an integrated solution, it has the potential to significantly step up overall workflow – in only a few simple steps.

**Acquisition**  
with syngo DynaCT Cardiac\*

**Segmentation**  
with syngo InSpace EP

**Overlay**  
with syngo iPilot

Artis zee EP Suite reduces the entire EP workflow, including optional visualizations, to a few simple steps

\*Also possible with pre-MR/ pre-CT.



# zee enhanced workflow— in the examination room and in the control room



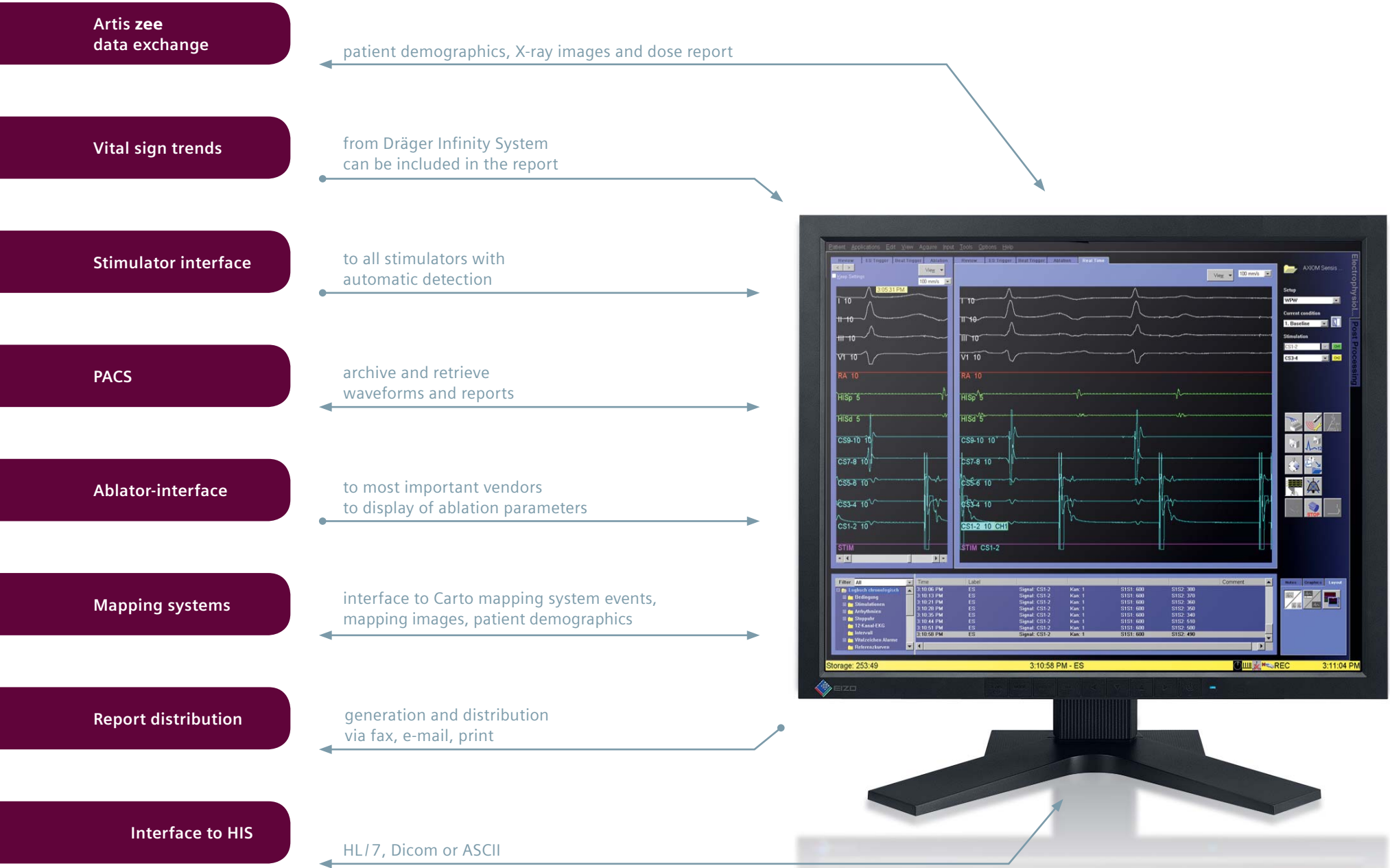
The Artis **zee** Large Display features a full color 56-inch medical-grade screen that lets you view multiple inputs simultaneously and provides over 200 layout configurations. Up to 12 different screen combinations with input from up to 24 image sources can be directly selected at table side and the image of clinical focus can be zoomed up to twice the size of a standard display.



Clean up your control room: The new generation of Artis **zee** Cockpit is able to display and control up to 9 compatible sources with one workplace featuring a 30" display. This means only one monitor, one mouse, and one keyboard. An additional 30" monitor, mouse and keyboard can be connected to provide a flexible working environment for two operators.

# AXIOM Sensis XP

## The core of your cathlab



With one central database for advanced reporting and interfaces to accommodate most devices for ablation therapy, AXIOM Sensis XP serves as the integrated core of your EP department.

AXIOM Sensis XP supports the most advanced EP procedures. Up to 64 intracardiac channels via 128 electrode inputs deliver crisp and clear waveforms that can be conveniently displayed and analyzed as needed. Interfaces to ablation and stimulation devices as well as to electro-anatomical mapping systems greatly enhance the workflow of the procedures.

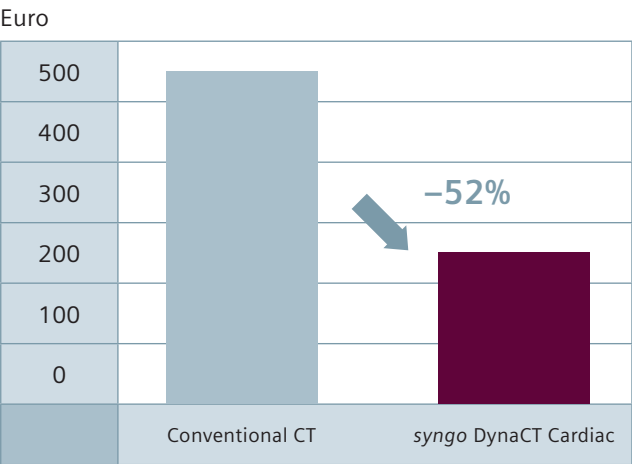
AXIOM Sensis XP supports convenient database management and report generation. Moreover, AXIOM Sensis XP can be easily upgraded from a single lab to a multilab solution or upgraded with hemodynamic functionality for a true combo system.





# Excellent long-term value

Artis zee EP Suite can make a positive impact on your EP procedures and your bottom line. In addition to their numerous clinical advantages, the highly innovative products of Artis zee EP Suite offer superb value for the long-term.



## Streamlining EP procedures

High-level integration of all of the various systems can significantly streamline workflow in the EP lab. Patient demographics need only be entered once, and all measurements, events and materials can be stored in one central database for comprehensive report generation. 3D imaging in the EP lab with *syngo DynaCT Cardiac* helps to further speed up procedures and save costs by eliminating the need for a pre-procedural CT scan. It can even result in potentially shorter hospital stays for patients, thereby further lowering overall costs for the procedure.



*syngo DynaCT Cardiac* can achieve cost savings for 3D imaging of more than 50% by reducing the need for additional CT scans, patient transports and overnight hospital stays. Over an eight-year period, the hospital can potentially save up to 500,000 euros\*.

\*Data on file

## UPTIME Services – solving tomorrow’s problems today

At Siemens, systems and services go hand in hand. During EP procedures, imaging systems play an increasingly important role in providing critical support. With the development of digital solutions, there is a greater need for seamless workflows – and for high operational security. Our proactive service solutions help increase system availability, reliability and workflow efficiency. We also offer hands-on training, workshops and continuing education courses.



From on-site applications training to optional clinical courses, we can help you **optimize your workflow and get the most from your Artis zee.**

## A partner at your side

As a proactive service provider, Siemens UPTIME Services offers real-time remote monitoring and preventive maintenance of your Artis zee hardware and software components. The Siemens Guardian Program™ provides continuous real-time remote Artis zee system monitoring on an ongoing basis for possible deviations from defined parameters. It thus ensures a high level of system availability by detecting and resolving errors before malfunctions occur.



**The Siemens Guardian Program™ optimizes your workflow with proactive real-time system monitoring.**

# Artis zee versatility

The new Artis **zee** family of interventional imaging systems features the complete portfolio for cardiology, including a floor-, ceiling-mounted, and biplane. Even a highly flexible multi-axis system with robotic technology: Artis **zeego**.



Artis **zee** floor-mounted

The excellent positioning flexibility allows patient access from the left and right side as well as head-to-toe coverage. The system is easy to install and fits even in small rooms. The Artis **zee** floor-mounted system offers flexible positioning and superb patient access for clinical staff. New ergonomic system controls allow for smooth tableside operation.



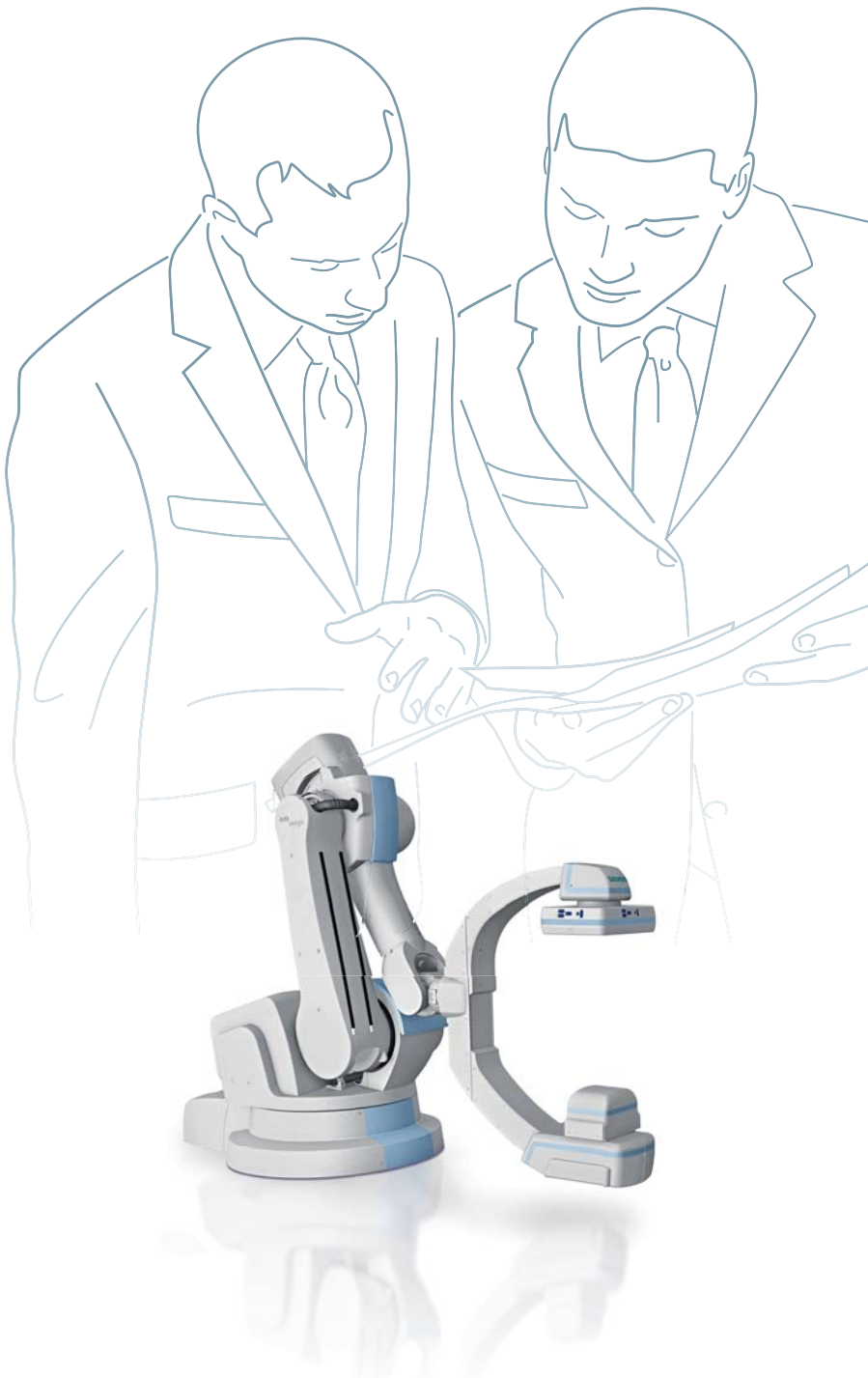
Artis **zee** ceiling-mounted

The motorized C-arm positioning allows 2D and 3D imaging from the head, right and left side of the patient. It allows excellent head-to-toe coverage. The ceiling-mounted system version enables highly flexible positioning around the patient. Its motorized C-arm positioning capabilities include flexible isocenter memory.



Artis **zee** biplane

Positioning flexibility in biplane mode with the lateral position of the floor-mounted stand allows free head access during the procedure. The dual panel system comes with two small detectors for biplane acquisition with up to 60 f/s. The mixed detector model (30 x 40 cm and 20 x 20 cm) provides extra coverage and is ideally suited for imaging structural heart diseases.



Artis **zeego**

As the first multi-axis system with robotic technology, Artis **zeego** offers exceptional positioning and head-to-toe coverage. The system incorporates several convenient, high precision control features, including a variable working height to help reduce fatigue. The system offers a flexible working height, resulting in more comfort for the cardiologist during complex long-lasting EP procedures.



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