



Artis zee Magnetic Navigation

A versatile solution for precision guidance

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SIEMENS



Artis zee Magnetic Navigation

Guiding devices with greater precision



Artis zee MN floor-mounted system

With its remote control capabilities and excellent precision, Artis **zee** MN floor-mounted system offers interventional cardiologists and electrophysiologists superb guide wire and catheter steering support.



Artis zee MN biplane system

As the only imaging manufacturer to combine advanced biplane imaging with magnetic navigation, Artis **zee** MN biplane system takes interventional procedures to an excellent level of precision.

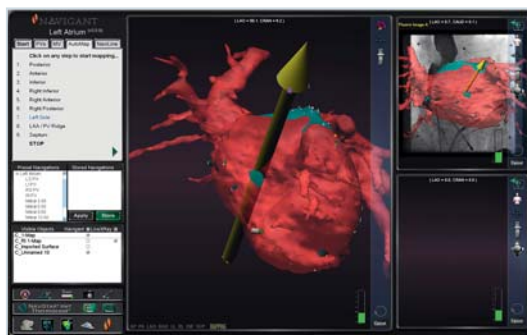
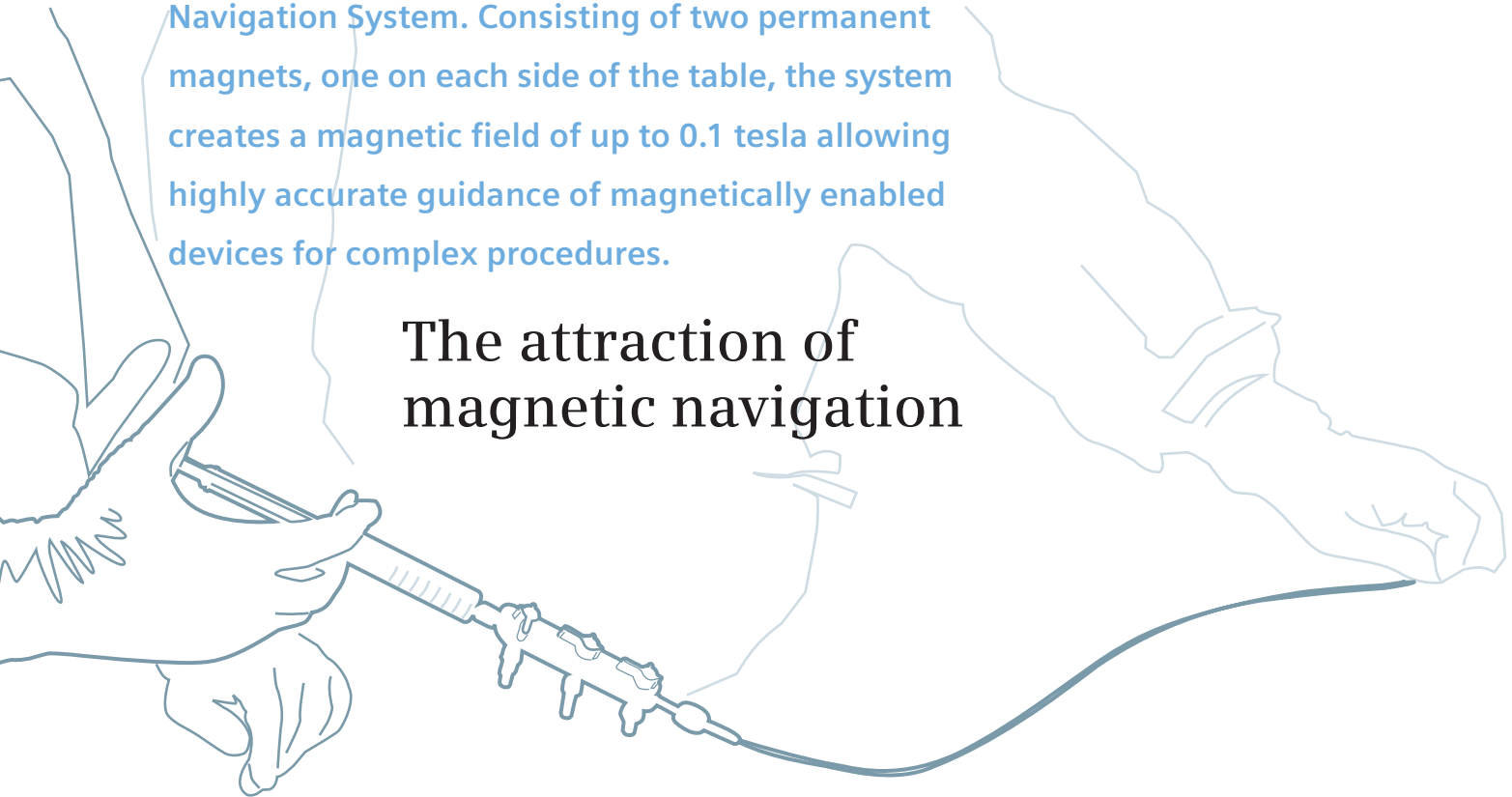
The rapid increase in the number of interventional procedures within recent years has led to an equally strong demand for advanced imaging solutions. Interventional physicians are eager to employ emerging technologies such as magnetic navigation, which allows even more precise guidance of magnetic catheters and guide wires.

As an innovation leader in electrophysiology, Siemens is at the forefront of advancements in interventional procedures. Joining forces with Stereotaxis, Siemens developed two top-of-the-line magnetic navigation imaging systems for the groundbreaking Artis **zee** family: Artis **zee** MN floor-mounted system and Artis **zee** MN biplane system.

Enhanced Workflow

Artis zee Magnetic Navigation combines state-of-the-art imaging technology from Siemens with the highly advanced Stereotaxis NIOBE® Magnetic Navigation System. Consisting of two permanent magnets, one on each side of the table, the system creates a magnetic field of up to 0.1 tesla allowing highly accurate guidance of magnetically enabled devices for complex procedures.

The attraction of magnetic navigation



Guidance flexibility and precision

The system uses catheters equipped with tiny magnets in the tip. With the help of the external magnetic field, the catheters can be guided with greater flexibility and precision compared to manual interventional devices. In addition, integrated computer software allows users to remotely control the direction of the magnetic fields.

User- and patient-friendly

The high degree of device guidance flexibility and accuracy of Artis zee MN offers many advantages, including more user- and patient-friendly interventional procedures, increased efficiency, even entirely new ways of treatment.

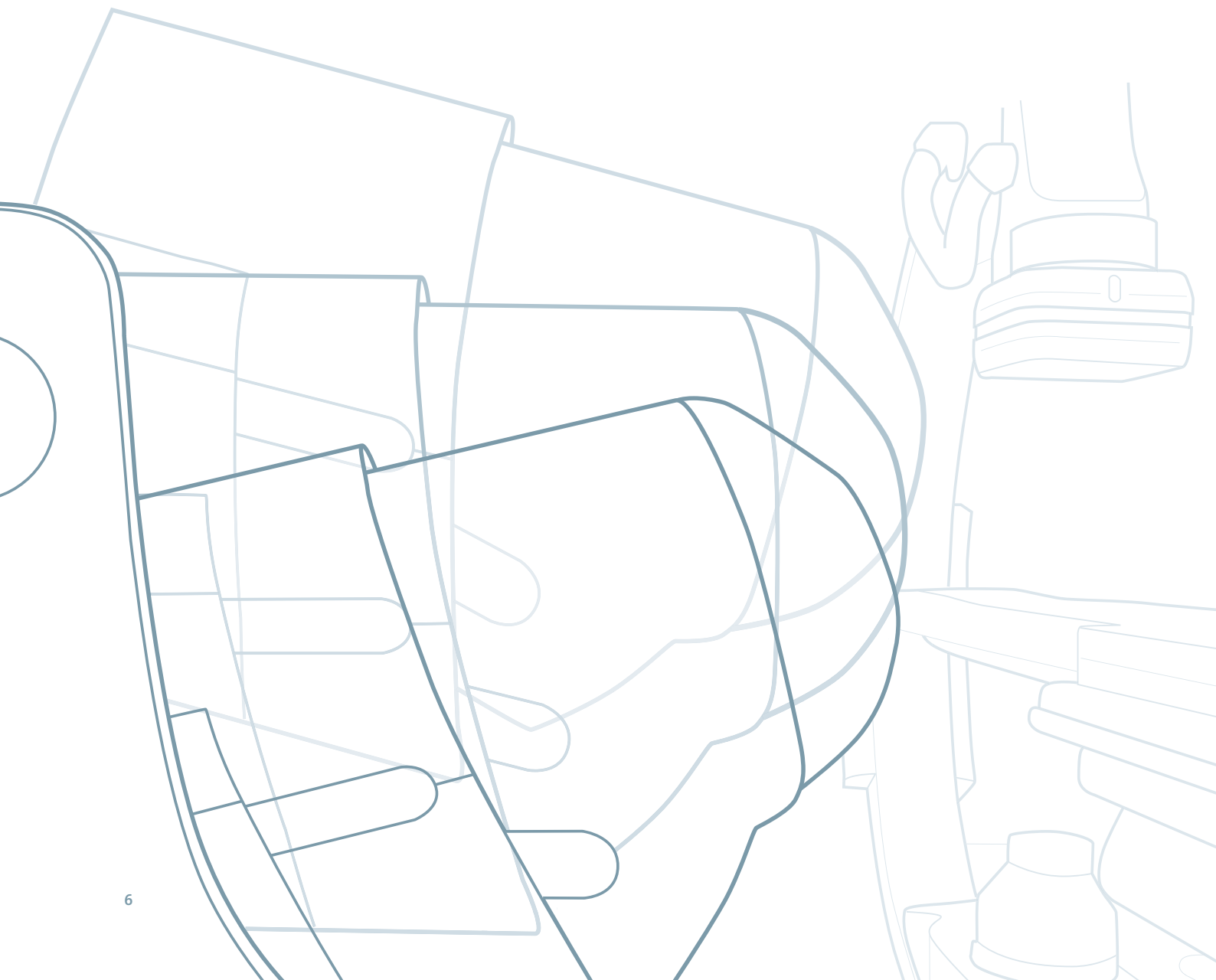


An interventional revolution

The precise navigation of magnetically enabled devices offered by Artis **zee** MN has virtually revolutionized electrophysiology and interventional cardiology. Instead of standing at the tableside for hours, electrophysiologists can now perform ablation procedures remotely from the control room – without radiation exposure.

Studies* have also shown Artis **zee** MN to offer greater efficiency by reducing radiation exposure and contrast media in the treatment of patients with complex coronary artery disease.

* <http://eu.stereotaxis.com/Medical-Professionals/Clinical-Publications/>





Artis zee MN Large Display

More specialized imaging, recording, mapping and documentation is being required for interventional procedures.

The Artis **zee** Large Display, a full-color 56-inch screen, gives you the whole picture directly at tableside. One large screen capable of displaying up to 10 inputs simultaneously with unsurpassed image sharpness and detail resolution.

Doing double duty

Artis **zee** MN is available as a monoplane floor-mounted or as a biplane solution to support magnetically assisted procedures. With the magnets in park position, both configurations can also be used as conventional cardiology systems for higher room utilization.

Smart handling

Artis **zee** MN features intuitive user interfaces supporting smooth workflow. Bidirectional communication between the imaging system and the magnetic navigation system includes synchronized movements and a collision prevention function between the C-arm and magnets.

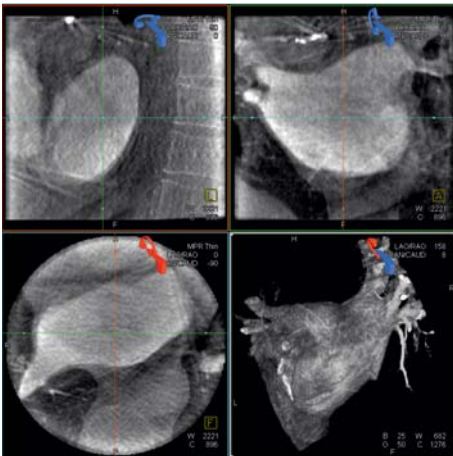
Integrated recording

Artis **zee** MN can be combined with AXIOM Sensis XP, an integrated recording system for hemodynamic and electrophysiological applications. Convenient reporting capabilities, excellent signal quality and bidirectional communication with Artis **zee** and mapping systems such as CARTO™ characterize AXIOM Sensis XP. Synchronized event logs provide fast access to detailed recording information.

Imaging Excellence

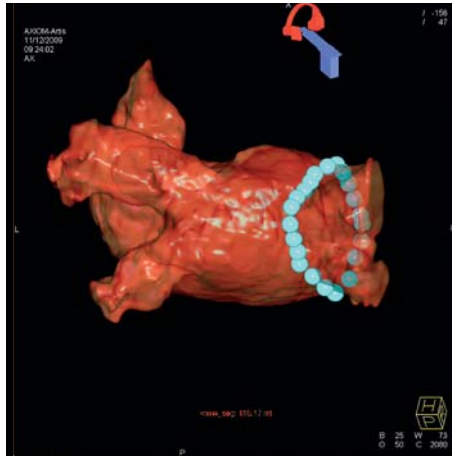
As the newest members of the Artis zee family, Artis zee MN floor and Artis zee MN biplane deliver exquisite visualizations of the finest details at very low dose. Both systems feature a 20 x 20 flat detector and a variety of leading-edge imaging applications and functions. From CT-like imaging to stent planning with 3D visualizations, Artis zee lets you see more.

Excellent 3D visualization



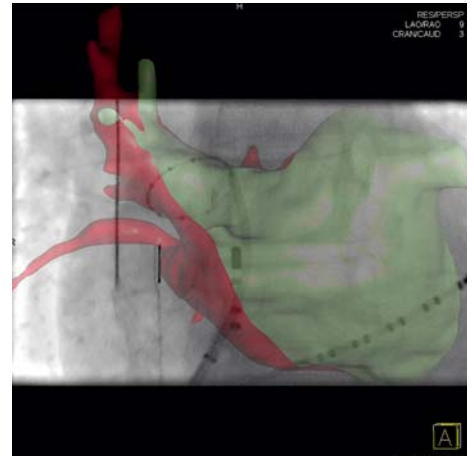
syngo DynaCT Cardiac

Artis zee Magnetic Navigation offers enhanced 3D imaging capabilities. Using rotational acquisition with syngo DynaCT Cardiac, the system generates high-resolution CT-like images within seconds. It can even provide 4D images of the cardiac anatomy.



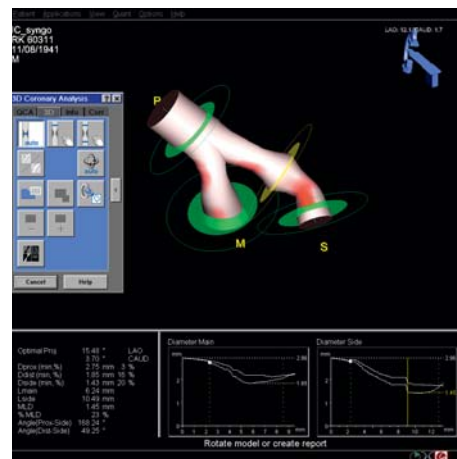
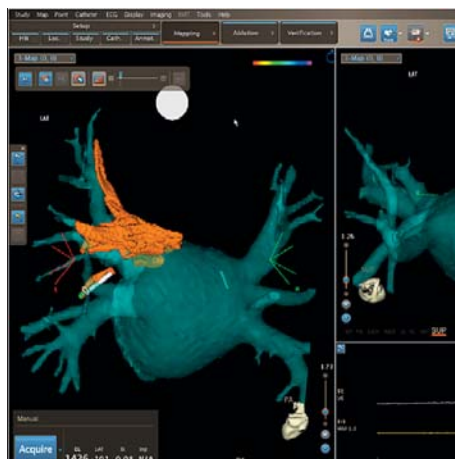
syngo InSpace EP

With Artis zee Magnetic Navigation and its 3D applications, you can increase the efficiency of your ablation planning. syngo InSpace EP enables quick and easy segmentation of CT, MR or syngo DynaCT images of the cardiac anatomy. With just one mouse click, it offers you a detailed overview of the left atrium.



syngo iPilot

syngo iPilot provides a dynamic overlay of the 3D segmentation over the live fluoroscopy image for exceptional guidance – making time-consuming registration a thing of the past.



Electroanatomical mapping

The segmentation image from *syngo* InSpace EP can also be combined with electroanatomical mapping systems such as CARTO™ from Biosense Webster, providing superb orientation during ablation procedures. CARTO™ system-supported catheter navigation is based on true anatomy.

IZ3D

During percutaneous coronary interventions, the image quality provided by Artis *zee* Magnetic Navigation makes all the difference. 3D visualizations of the coronaries additionally support treatment planning of complex interventions. IZ3D generates a 3D model of a vessel with highly accurate quantification of lesions and stenoses particularly with bifurcation lesions.

Investment Confidence

Artis **zee** Magnetic Navigation is state-of-the-art interventional technology with numerous clinical advantages and multiple value prospects over the near- and long-term.

High value utilization

Streamline procedures


Incorporating advanced imaging functions such as *syngo* DynaCT Cardiac, Artis **zee** MN virtually eliminates the need for a pre-procedural CT scan. 3D imaging and therapy can be performed on one system, thereby significantly streamlining workflow by eliminating time-consuming registration on another system. Acquired images can be immediately used for image guidance.

Faster and versatile

Artis **zee** Magnetic Navigation with the NIOBE® system enables quick and accurate catheter navigation, potentially reducing the time needed for procedures as well as the risk for complications. What's more, Artis **zee** MN is incredibly versatile. With the magnets in park position, it can also be used as a conventional cardangiography system.

Life is value potential

Siemens is committed to helping you get the most out of your investment with unparalleled service support: everything from on-site applications training to dedicated e-learning and a wide range of international clinical workshops. There are also proactive services such as the Guardian Program™ designed to provide maximum system availability by remote monitoring, as well as managed system upgrades and clinical portfolio expansion.



“We have absolutely increased the efficiency of our lab. We use the system five days a week from 8 am to 7 pm. And we have doubled the number of ablations performed – from five to ten interventions per day.”

Prof. Dr. Carlo Pappone
Head of Cardiology, St. Raffaele Hospital, Milan, Italy

“3D imaging with *syngo* DynaCT Cardiac is such a fantastic way to get a quick and confident overview on the left atrial anatomy. We now can navigate the ablation catheter in real time on true anatomy. This makes magnetic assisted interventions even more efficient for us.”

Prof. Dr. Petr Neužil
Department of Cardiology, Na Homolce Hospital, Prague, Czech Republic

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