

SIEMENS

Artis with  
PURE®



Artis with PURE®

Adding smooth to smart.

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Answers for life.

# Artis with PURE<sup>®</sup>

Adding smooth to smart.

In angiography, many physicians don't get to experience the full capabilities of their modern interventional systems as both procedures and system interaction get increasingly complex. The new PURE<sup>®</sup> platform for Artis zee, Artis Q, and Artis Q.zen is changing this now: Adding smooth use to Siemens' smart technologies.

Increase your process efficiency in the angio suite, enable all your staff members to get the full potential of the system, and enhance your patient treatment outcomes – with an angio system that combines better ease of use, integrated expert therapy guidance, and tools providing better diagnostic information.

**For a PURE<sup>®</sup> experience in angiography.**

Artis with  
PURE<sup>®</sup>

## Smooth interaction

Save time during procedures. Fewer steps. More efficiency.

## Smart performance

Expand your capabilities. More confidence. Better outcomes.



Experience PURE<sup>®</sup>  
Scan this code  
or visit  
[www.siemens.com/  
artis-with-pure](http://www.siemens.com/artis-with-pure)

Not all features shown in this brochure are necessarily standard and available in all countries.

“With PURE<sup>®</sup>, interaction  
with the system is smoother  
and more intuitive.”

Prof. René Chapot, MD  
Alfried Krupp Krankenhaus Essen, Germany

# Smooth interaction in 2D imaging

## CLEARmap

Get fast and easy access to enhanced image quality in Roadmap

Achieving the best possible image quality in Roadmap is crucial during complex interventions. CLEARmap enables enhanced image quality and functionality with fewer system interactions. Get more out of your system by simplifying your workflow, while saving dose and contrast e.g. by allowing zooming and panning during Roadmap.



*“With PURE®, the image quality of DSA and Roadmap (native and subtracted) is outstanding.”*

Prof. René Chapot, MD  
Alfried Krupp Krankenhaus Essen, Germany

## CLEARmatch

Compensate for patient movement with next generation real-time pixel-shift in DSA and Roadmap

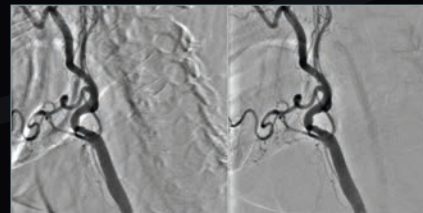
Patient motion leads to reduced image quality. CLEARmatch retains the live image while pixel-shifting the mask image in real-time to provide consistent image quality in Roadmap. Get sharper images and enhance your treatment even in challenging situations.



*“CLEARmatch provides crystal-clear images; this saves a lot of time.”*

Dr. Johannes Weber, MD  
Kantonsspital St. Gallen, Switzerland

left image: without CLEARmatch  
right image: with CLEARmatch

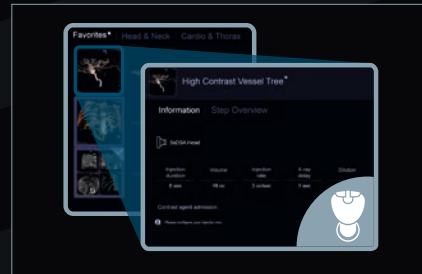


# Smooth interaction in 3D imaging

## 3D Wizard

Simplify 3D imaging with expert guidance

Choosing an optimal 3D protocol is not always easy. The 3D Wizard provides step-by-step expert guidance to achieve the desired imaging results. Increase your confidence when using 3D and get the full benefits from your system.



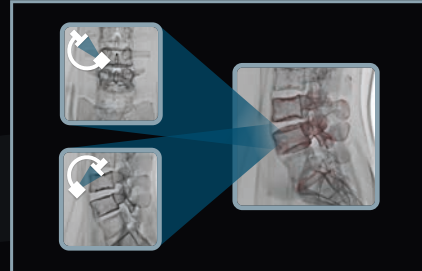
*“PURE® enables practically anybody to perform a perfect 3D run without the need of having experts around.”*

Prof. Martin Skalej, MD  
University Hospital Magdeburg, Germany

## syngo 2D/3D Fusion

Save 99% dose when integrating pre-op volumes for live image guidance\*

Pre-op CT, MR, or PET data is often available, but remains mostly unused in the angio suite. With syngo 2D/3D Fusion, only two fluoro projections are required to easily fuse 3D volumes from other imaging modalities for live image guidance. Expand your capabilities while saving radiation dose and contrast media.



*“Another feature we really appreciate is the new syngo 2D/3D Fusion. This allows us to fuse any external volume, be it CT or MR or PET, with just two 2D images, resulting in 3D volumes.”*

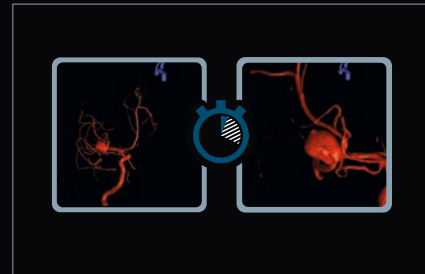
Bernhard C. Meyer, MD  
Hanover Medical School, Germany

\*This measurement was performed with an Alderson phantom using fluoroscopy with 10 images per 2D projection and a low-dose 6s DCT body program. Results in actual clinical practice may vary.

# Smooth interaction in 3D imaging

## QuickZoom

**Focus and zoom at tableside with just one click**  
Interacting with 3D volumes at tableside can be cumbersome. QuickZoom helps you save time and speed up your workflow. Click onto your region of interest, and QuickZoom centers and zooms automatically, and even provides high-resolution refinement of your 3D volume.



*“QuickZoom is a big step forward in terms of usability and easiness. It enables us to stay in the room, meaning we do not need to go out in the control room any more.”*

Prof. Martin Skalej, MD  
University Hospital Magdeburg, Germany

## Heads-up Display

**Stay focused with context-sensitive On-Screen Menu**  
Focusing on the patient during procedures is a must in the angio suite. Access all relevant data and functionalities via the On-screen Menu on the Heads-up Display. Without the need to look down, keep your attention on the intervention and ease your procedure.



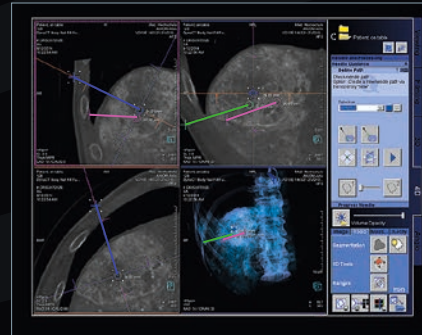
*“With the Heads-Up Display, I can simply select from preset menus with the joystick, and this eases navigation during the procedure.”*

Bernhard C. Meyer, MD  
Hanover Medical School, Germany

# Smooth interaction in procedure planning

## Multiple Needle Guidance

**Save time by planning multiple needle paths in one step**  
In complex interventions, placing multiple needles is time-consuming. Multiple Needle Guidance allows you to plan several needle paths in one step. Simply call up each path one by one during the intervention to streamline your procedure.



## Parallel Patient Processing

**Share system capabilities between exam and control rooms**

To be able to work in parallel both in the control room and the exam room is essential when it comes to the best possible room utilization. With Parallel Patient Processing, planning a procedure is possible without interfering with an ongoing one. This helps to streamline your workflow, maximizing system productivity.

*“Parallel Patient Processing is a significant workflow improvement because it allows us to process data both in the exam room and in the control room in parallel on different data sets. It improves our efficiency by optimizing our usage of the control room workstation.”*

Bernhard C. Meyer, MD  
Hanover Medical School, Germany

## Bookmarks

**Save and recall procedure planning data easily**

Typically, pre-planning a procedure had only been possible right before the intervention. With Bookmarks, planning results can easily be saved and recalled at the push of a button at any time. Optimize your workflow and be more efficient.

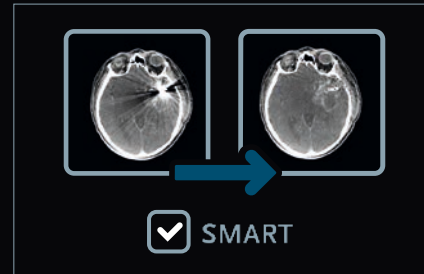


# Adding smooth to smart.

## **syngo DynaCT SMART**

### **Reduce metal artifacts to see the unseen**

Important diagnostic information can be obscured by metal artifacts. Reduce these artifacts with *syngo DynaCT SMART* (Streak Metal Artifact Reduction Technique). This helps you increase diagnostic confidence and increases the chance for visualizing complications such as bleedings close to metallic objects.



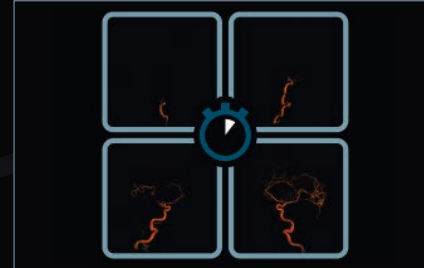
*“Intravenous DynaCT with **syngo DynaCT SMART** is our method of choice over conventional CTA or MRA to follow-up aneurysm patients after clipping and stent/coil treatment.”*

Demetrius Lopes, MD  
Rush University Medical Center, Chicago, USA

## **syngo Dyna4D**

### **Welcome the 4th dimension to the angio suite**

Direct 3D flow information was limited to CT, MRI and ultrasound – yesterday. With *syngo Dyna4D*, you can now see flow patterns in 3D, providing a virtually unlimited number of DSA runs at no additional dose and contrast media.\* *syngo Dyna4D* helps you expand your clinical capabilities in the angio suite by optimizing patient selection and individualized treatment strategies.



*“**syngo Dyna4D** enhances treatment planning and choose patients, best suited for endovascular treatment, by combining the advantages of 2D-DSA and 3D. This will reduce radiation exposure and contrast dose.”*

Charles Strother, MD  
University of Madison, Wisconsin, USA













\*This is the experience of individual users. Results may vary.










“I think the most important aspect of PURE® is the ease of use and the resulting quality. All those tools together bring about greater safety for the patient.”

Prof. Martin Skalej, MD  
University Hospital Magdeburg, Germany

Artis with PURE®  
Adding smooth to smart.

		Floor-mounted	Ceiling-mounted	Biplane	zeego*
Artis with PURE®	Artis one				
	Artis zee				
	Artis Q				
	Artis Q.zen				

Multi-Purpose *	Detectors	X-ray Tube
	<div>   midsize detector </div>	MEGALIX Cat Plus
	<div>   small detector </div> <div>   large detector </div>	Interventional cardiology
	<div>   small detector </div> <div>   large detector (HDR) </div>	Interventional radiology
	<div>   midsize detector (crystalline silicon) </div>	Surgery
		GIGALIX

\* Only available with large detector.

The PURE® platform is available on Artis zee, Artis Q and Artis Q.zen systems, taking the unparalleled performance of Artis products to a new level.

Experience the full potential of your angiography system with PURE®. To get more information on how your Artis system can be upgraded, please contact your local sales representative.

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In the interest of complying with legal requirements concerning the environmental compatibility of our products (protection of natural resources and waste

conservation), we recycle certain components. Using the same extensive quality assurance measures as for factory new components, we guarantee the quality of these recycled components.

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The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

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