Image Guiding Solutions

Interventional Cardiology

Upgrade your system workstation and applications, enhance your clinical practice

GE HealthCare

Cardiology interventions upgrade: what added value for your practice?

The fields of structural heart (SH) and percutaneous coronary interventions (PCI) are rapidly advancing. New technologies are emerging to address the growing number of patients and rising complexity of procedures. Reducing major adverse cardiac events (MACEs) and improving patient outcomes are key challenges and optimal conditions are essential for achieving successful results.

Consider upgrading your system with ASSIST*, the comprehensive versatile suite to help address your heart team main challenges and improve outcomes in cardiology procedures.

Standard and complex structural heart interventions

SH activities are challenging and require specific expertise, especially with complex cases like multivalvular heart disease or low-flow aortic stenosis. Support in evaluating imaging nuances, providing clear guidance, optimizing anatomy understanding, and ensuring excellent visibility will help you manage SH interventions effectively.

Your upgraded solution: Valve ASSIST 2[1]

Gain visibility. Save time. Reduce dose and contrast media.

- **Easy valve sizing** with zero-click aorta segmentation and auto detection of valve plane.
- **Better understanding of left atrium anatomy** with 1-click segmentation of the 3D CT image.
- **Simplified guidance and time saving** with real time fusion of 2D fluoro with 3D anatomy from CT and X-Ray systems.
- **Improved visualization of moving contrast structure** without the need of contrast media use with one touch calcification enhancement feature.
- **Improved visual comfort** with the use of Digital Zoom.

Standard and complex structural heart interventions

Transcatheter aortic valve implantation (TAVI)

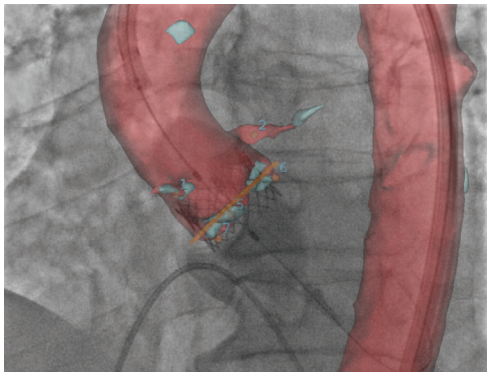
Your win

Facilitated and efficient procedure thanks to a streamlined and guided workflow for your TAVI procedures.

Your outcomes

Improved accuracy and planning efficiency

- **33%** contrast-media reduction[2]
- **33%** dose reduction[3]



Left Atrial Appendange Closure (LAAC)

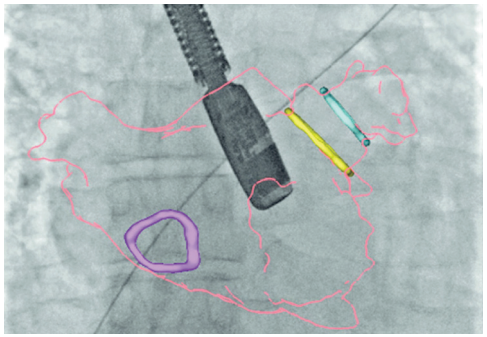
Your win

Simplified left atrium segmentation and facilitated device guidance and positioning throughout the procedure.

Your outcomes

Improved accuracy and planning efficiency[4]

- **78%** contrast-media reduction
- **28%** procedure time reduction
- **25%** fluoro time reduction



> Image fusion represents a huge advantage for structural heart procedures, with pre-op preparation and to reduce the dose of both contrast media and radiation.

Dr. Xavier Freixa
Interventional Cardiologist Hospital Clinic, Barcelona, Spain

Stay technologically and clinically current with access to the latest applications

Your upgrade package to stay at the forefront of technology

IGS workstation upgrade

AW workstation

Get access to the full ASSIST suite at table side

You buy

- Operating system hardware and software upgrade
- Volume Viewer Innova Enhanced
- Reconstruction engine evolution
- Applications refresh

You get

- Intuitive user interface
- Simplified workflow
- Increased storage capability
- Cybersecurity risk reduction
- 20% faster processing[6]

+

Interventional cardiology imaging upgrade

with ASSIST, 2D, 3D applications

Percutaneous coronary interventions

- PCI ASSIST 2[7]
- CardIQ Xpress 2.0 Reveal

Structural heart

- Valve ASSIST 2
- Digital Pen

Electrophysiology

- Digital Pen

2D and 3D applications to augment your imaging outcomes

Boost your clinical practice and confidence with cutting-edge apps

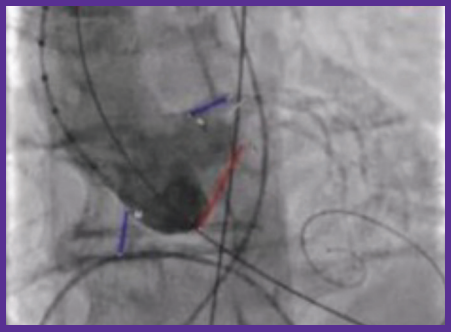
Area of interest

Digital Pen[5]

Highlights area of interest on 2D images

Your win

- Landmarks in the moving images based on table and gantry movements
- A pen integrated at table side for your comfort and ease of use



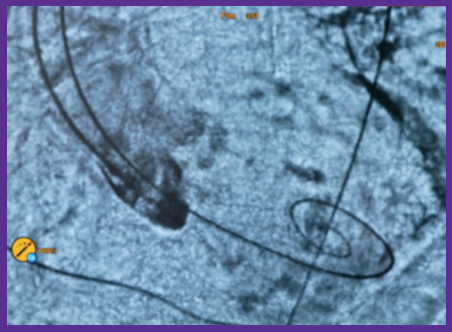
Augmented imaging

Calcification Enhancement

Virtually subtracts the non-moving organs

Your win

- Improved visualization of moving contrasted structures
- Use of contrasted objects to guide your device accurately and efficiently while reducing contrast media[2]



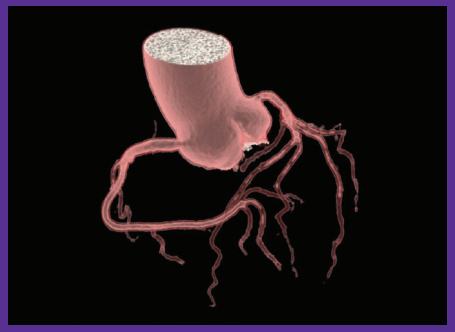
CT image integration

CardIQ Xpress 2.0 Reveal

Automatic coronary segmentation of CCTA. Aligned fluoro and CT images in the cathlab throughout the procedure

Your win

- Automatic gantry position alignment to match your preferred CT image view
- Supported device guidance by providing CT anatomical information at your fingertips



> Digital Pen is useful to measure the length and diameter of lesions, identify areas of interest: vessels, bifurcation that can then serve as a roadmap, position the system without X-Ray at any time of the procedure in relation to an area of interest.

Dr. Sébastien Véron.
Vascular and endovascular surgeon,
Hôpital Privé de la Loire, France
User of an Allia™ IGS 5 hybrid room

Disclaimers:

* ASSIST solutions are composed of multiple medical devices. Refer to your sales representative for more information.

Dr. Xavier Freixa and Dr. Sébastien Véron are paid consultants for GE HealthCare and were compensated for participation in these testimonials. The statements by Dr. Xavier Freixa and Dr. Sébastien Véron presented here are based on their own opinions and on results that were achieved in their unique setting. Since there is no "typical" hospital and there are many variables, e.g., hospital size, case mix, etc., there can be no guarantee that other customers will be able to achieve the same results.

1. Valve ASSIST 2 solution includes TAVI Analysis, HeartVision 2 and requires AW workstation with Volume Viewer, Volume Viewer Innova. These applications are sold separately.
2. Shafiq, et al. Effect of a new enhanced fluoroscopy technology (Valve ASSIST 2) on outcomes in patients undergoing trans-catheter aortic valvular replacement. TCT 2017; Abstract.
3. Overtchouk, et al. Advanced image processing with fusion and calcification enhancement in transcatheter aortic valve implantation: impact on radiation exposure. Interactive CardioVascular and Thoracic Surgery (2018)1–8. doi:10.1093/icvts/ivy136.
4. Roy, et al. Novel Integrated 3D Multi-Detector Computed Tomography and Fluoroscopy Fusion for Left Atrial Appendage Occlusion Procedures. Catheter Cardiovasc Interv2017;Mar 17, DOI:10.1002/ccd.26998.
5. Digital Pen option requires AW workstation with Volume Viewer, Volume Viewer Innova, Vision 2, VesselIQ Xpress, Autobone Xpress. These applications are sold separately. Digital Pen may not be available in all countries. Refer to your sales representative for more information.
6. AW workstation - As compared to previous AW system. Based on CPU specifications, memory speeds and PassMark® Software CPU Performance Test benchmark results (www.cpubenchmark.net/high_end_cpus.html). Not all applications may achieve this improvement.
7. PCI ASSIST 2 solution includes StentViz and StentVesselViz.

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