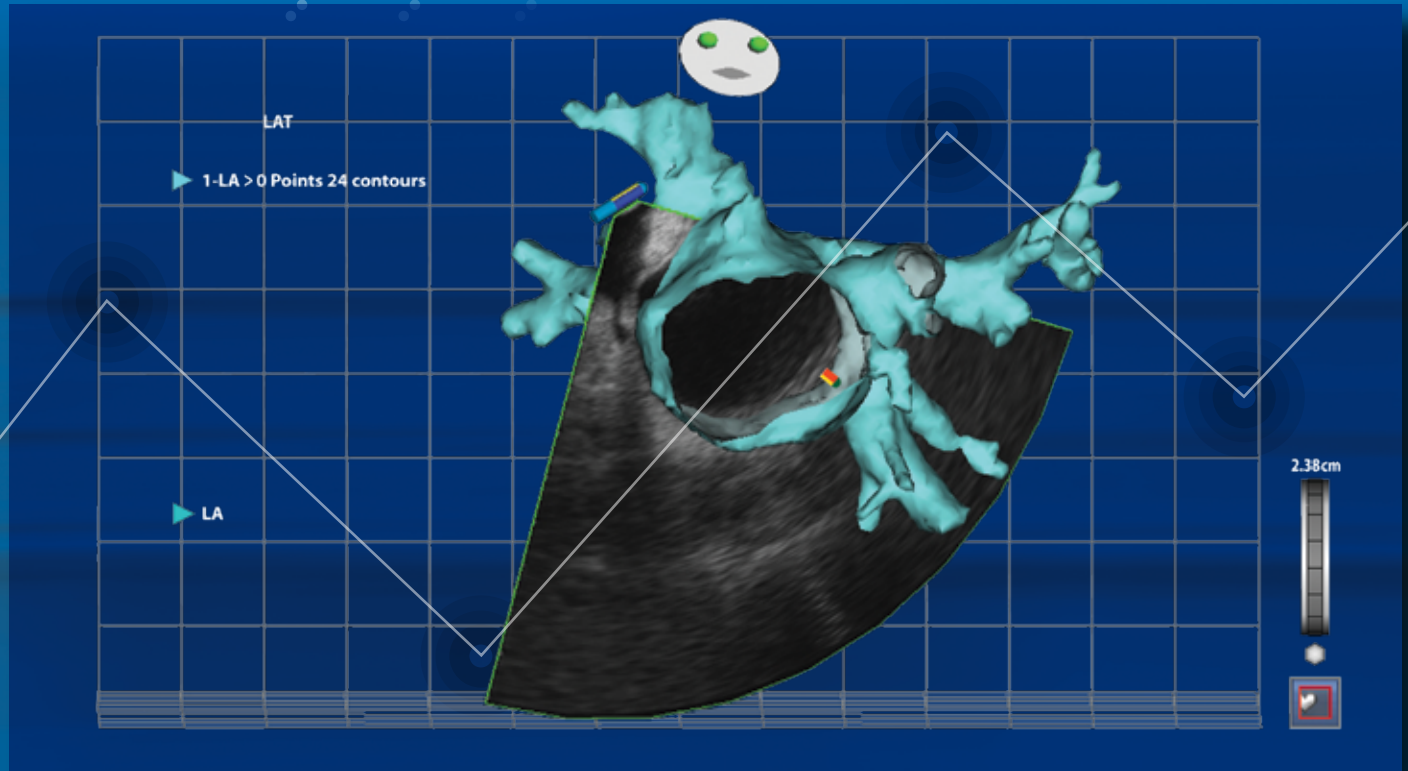


CARTOSOUND™

Image Integration Module with SOUNDSTAR™ Catheter

Ideas making a difference

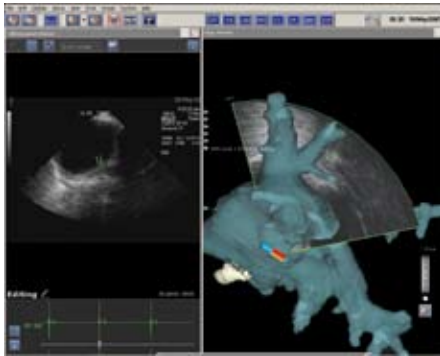


The future of electrophysiology is sound.

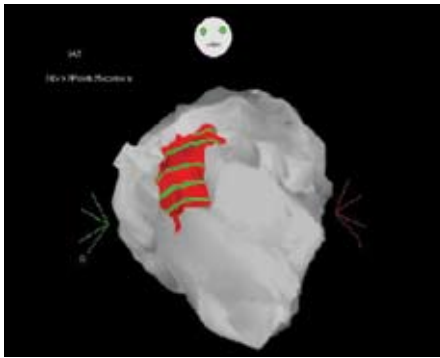
 **Biosense Webster®**
a *Johnson & Johnson* company

Where sound meets vision.

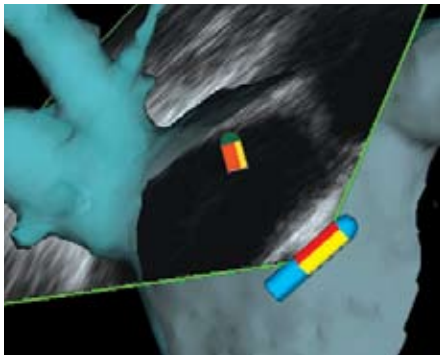
The CARTOSOUND™ Module and SOUNDSTAR™ 3D Catheter integrate real-time intracardiac echocardiography (ICE) imaging into the proven accuracy of the CARTO® System environment, enhancing visualization and navigational confidence.



SOUNDSTAR™ Catheter simplifies navigation to precise anatomical targets.



CARTOSOUND™ Module map (LV) displaying isolated areas of segmental wall motion.



Clear visibility of tip-to-tissue contact provides a new level of confidence.

Embedded technology. Extraordinary insight.

Exclusive SOUNDSTAR™ 3D Catheter technology adds an important new dimension of precise anatomic information to electrophysiology procedures.

- > Combines 3D ICE images and CARTO® System maps into integrated CARTOSOUND™ Module maps.
- > Catheter tip contains both a navigation sensor and ultrasound phased array probe.
- > Ultrasound probe is based on the clinically proven ACUNAV™ Catheter platform.

Confidence at the speed of sound.

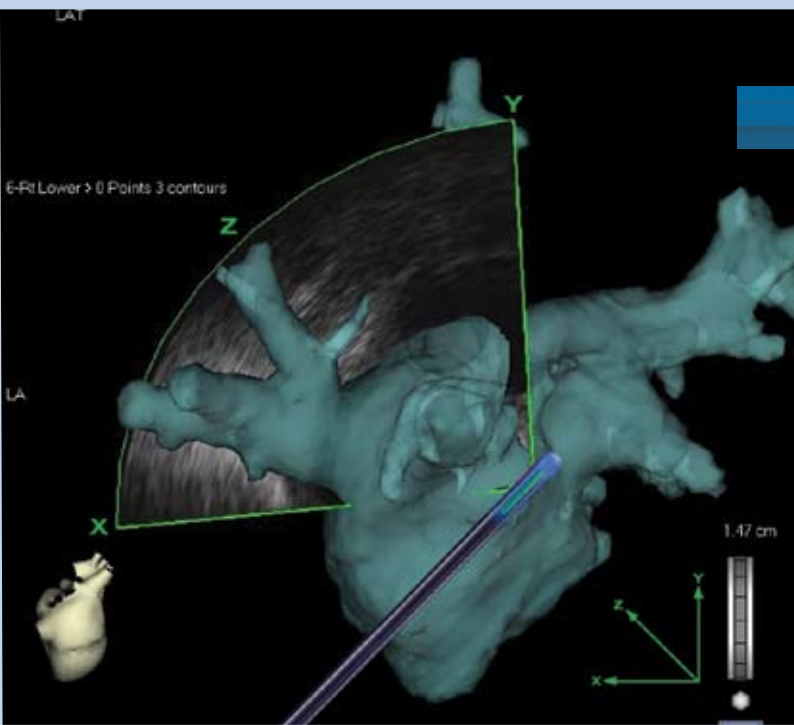
The integration of ultrasound with CARTO® System technology streamlines procedural efficiency, contributes to safety, and enhances the clarity of anatomical images.

- > Enables creation of Left Atrium (LA) and Left Ventricle (LV) CARTOSOUND™ Module maps from the right side prior to transseptal puncture.
- > Allows areas of differential wall motion to be identified and viewed in 3D.
- > Real-time ultrasound beam is visible in familiar CARTO® System 3D space.
- > CARTOMERGE™ PLUS Module enhances visualization by registering pre-acquired CT images to CARTOSOUND™ Module maps.





The CARTOSOUND™ Module with ICE difference



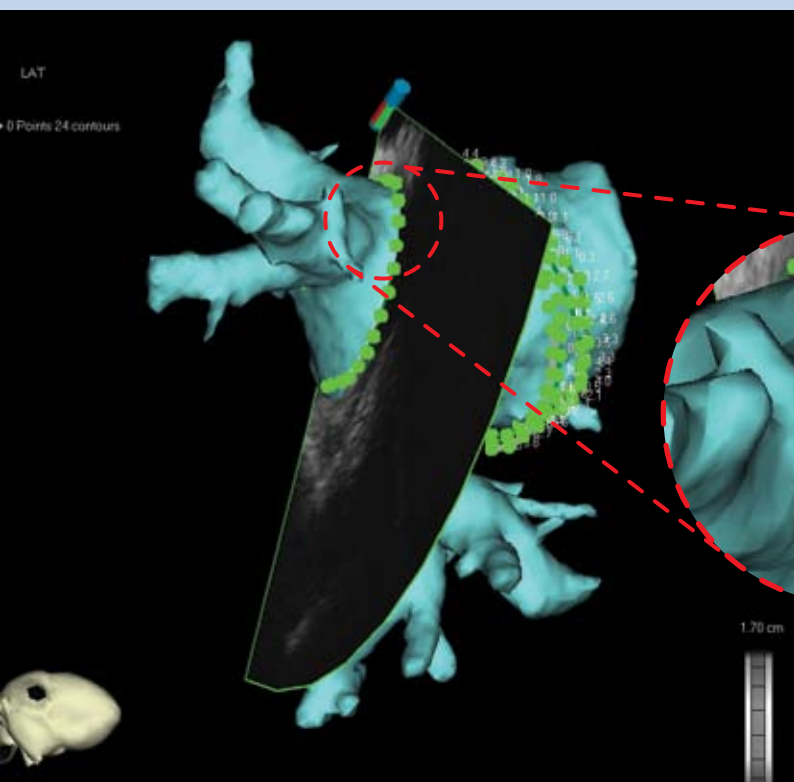
Precise location and orientation of the ultrasound beam to patient anatomy can be visualized from the right atrium with 3-dimensional accuracy.

- > Enhances visualization of:
 - Transseptal puncture
 - Anatomical structures
 - Tissue tenting
 - Ablation catheter tip-to-tissue contact
 - Pericardial effusion
 - New thrombus formation*
 - Potential complications
- > Left sided anatomical maps can be created from the right side before transseptal puncture.
- > Maintains unrivaled accuracy of CARTO® System maps.

It all adds up to confidence for the electrophysiologist in both left and right sided cases.

The sound move for today and tomorrow.

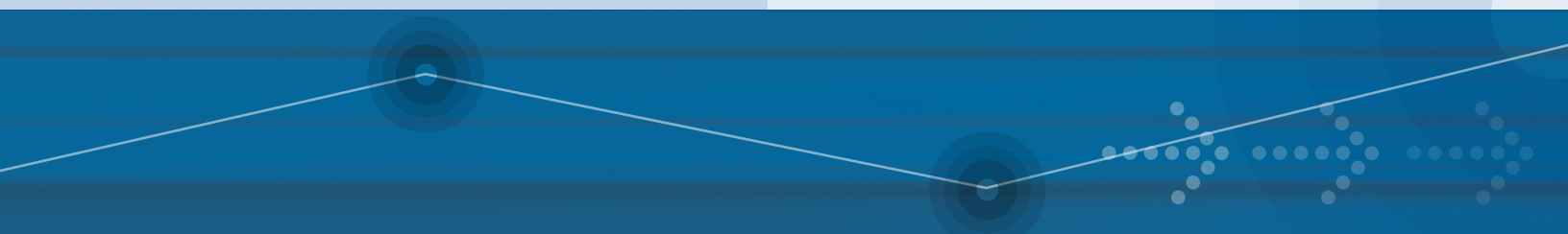
The advanced CARTOSOUND™ Module offers electrophysiologists a clear path to new levels of procedural excellence. It's another example of Biosense Webster's innovation helping identify, reach, and treat arrhythmias with precision and confidence.



Area detailed.

Compatibility with the CARTOMERGE™ PLUS Module permits use of pre-transseptal CARTOSOUND™ Module maps to register pre-acquired images.

* During the case.





CARTOSOUND™ Image Integration Software Module Specifications

CARTO® XP System Software 2007

Dell™ Precision™ 390 Workstation (for dedicated use with the CARTO® XP System)

CARTOSOUND™ Image Integration Module Ultrasound Compatibility

Siemens ACUSON Sequoia™ Ultrasound System loaded with software version 10.1 or higher, AcuNAV™ Catheter Package, and Biosense Webster communication kit

Siemens ACUSON Cypress™ Cardiovascular Ultrasound System with the AcuNAV™ Catheter Package

Siemens ACUSON Cypress™ plus Cardiovascular Ultrasound System with the AcuNAV™ Catheter Package

CARTOSOUND™ Image Integration Module Ordering Information

CATALOG #	EUROPEAN ORDERING #
CARTOSOUND	CRTSND

SOUNDSTAR™ 3D Ultrasound Catheter Imaging Specifications

Longitudinal side-fire imaging plane displays anatomy and devices in standard echocardiographic format

64-element Parallel Drive Phased Array imaging technology provides high resolution imaging in all modes

7 mm aperture

Vector™ wide-view imaging format for increased anatomic information

Sequoia™ system imaging frequencies: 10.0MHz, 8.5MHz, 7.5MHz, 5.5MHz

Cypress™ system image frequencies: 7.0MHz, 6.0MHz

SOUNDSTAR™ 3D Ultrasound Catheter Ordering Information

CATALOG #	FRENCH SIZE	LENGTH
SNDSTR10	10F	90 cm

AcuNAV™ 2D Ultrasound Catheter Compatibility*

CATALOG #	FRENCH SIZE	LENGTH
082 55 790	10F	90 cm
082 67 996	8F	110 cm

*Ultrasound image display is adjacent to CARTO™ System maps, not integrated.



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