

Artis zee – There's so much more to zee
Electrophysiology Gallery

SIEMENS

Electrophysiology

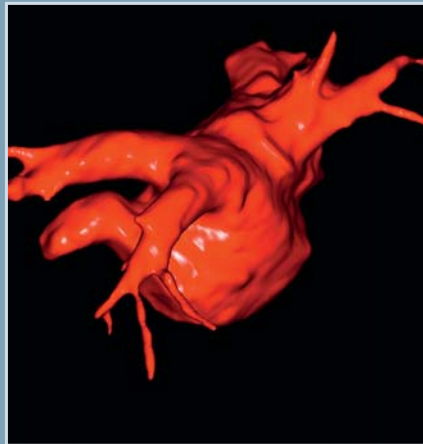
Overview



Overview

syngo® DynaCT Cardiac
3D imaging of the beating heart in the EP lab with ECG gating. Available with small and large detector

Decision



Decision

syngo InSpace EP
Easy one-click segmentation of the left atrium and additional structures

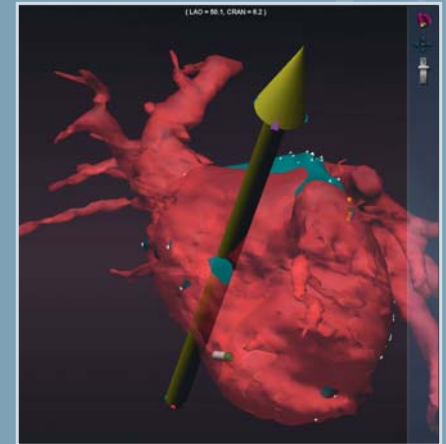
Guidance



Guidance

syngo iPilot
3D overlay of the segmented structure on the live fluoro image

Ablation

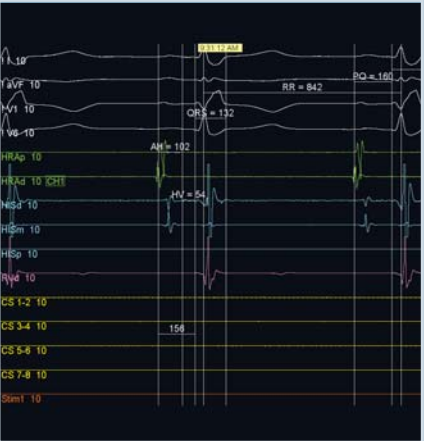


Ablation

Magnetic Navigation
Comfortable remote positioning of ablation catheters

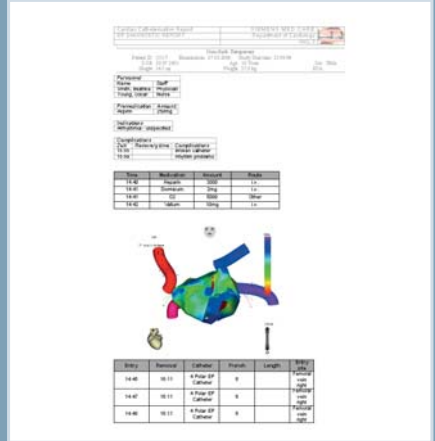
Gallery

Check Report



Check

AXIOM Sensis XP the recording system for electrophysiology with enhanced workflow support for stimulation and ablation



Reporting

AXIOM Sensis XP supporting convenient report generation including mapping diagram

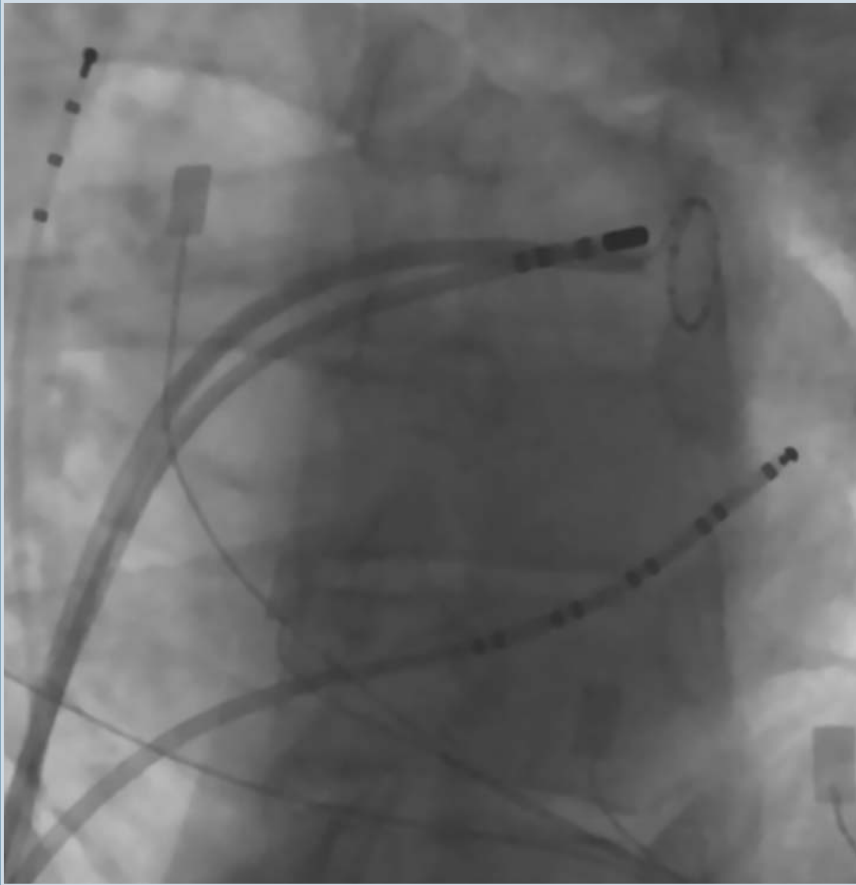
A complete picture for effective results

Artis zee delivers a new imaging chain that enables improved visualization of therapeutic devices or instruments, as well as a range of advanced applications – from intra-procedural 3D imaging to advanced guidance tools – that enable the electrophysiologist to plan and treat with greater speed and precision.

The Siemens Electrophysiology Gallery presents relevant features for ablation therapy and the added value they bring for your clinical workflow. You see at a glance the right combination of system features needed for efficient treatment of complex arrhythmias such as atrial fibrillation.

On the following pages, the Electrophysiology Gallery shows a selection of imaging results from each step of your clinical workflow.

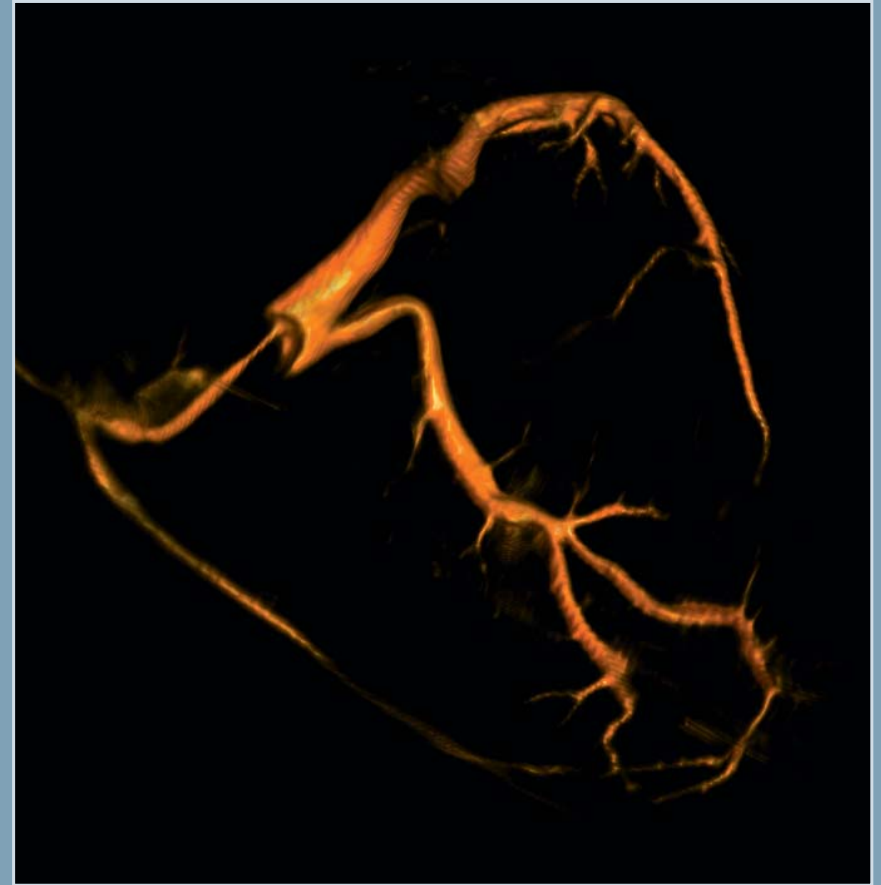
Overview



ECG-triggered fluoro

Catheters and guidewires are clearly visible at low-dose fluoroscopy. With ECG gated fluoroscopy the catheter position is shown at the same heart phase. Created by ECG-triggered fluoro.

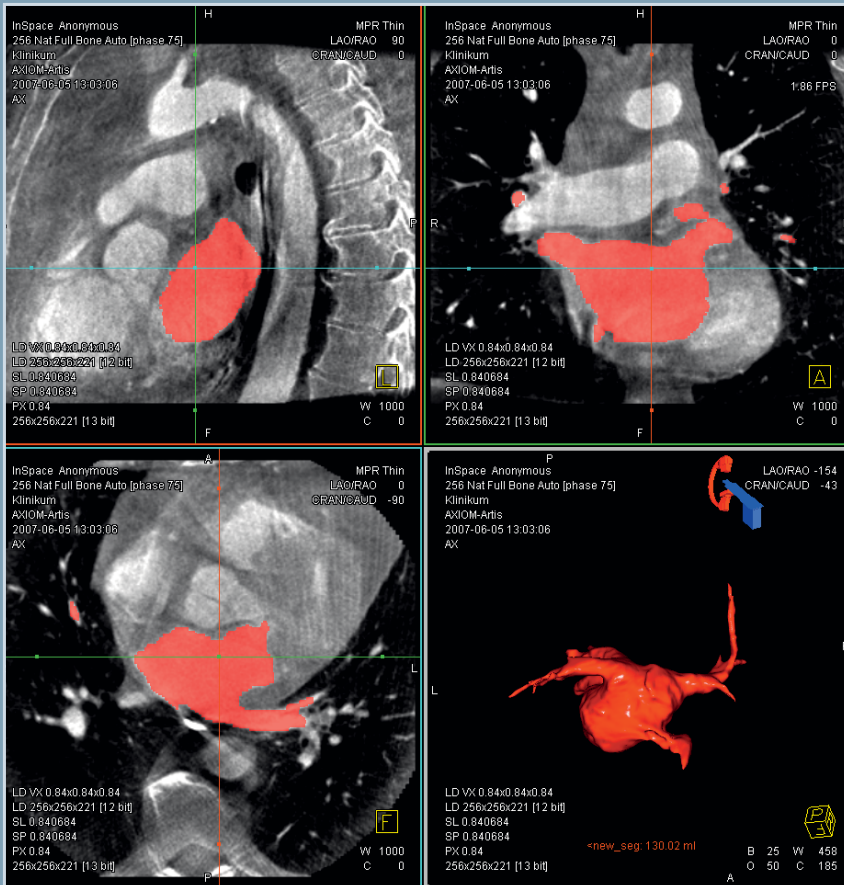
Overview



syngo DynaCT Cardiac

3D or 4D images of the heart acquired by rotational angiography with ECG gating directly in the EP lab. ECG-gated acquisition is of key importance for the visualization of the coronary sinus to help guide during Coronary Resynchronization Therapy (CRT). Created by syngo DynaCT Cardiac gated acquisition mode.

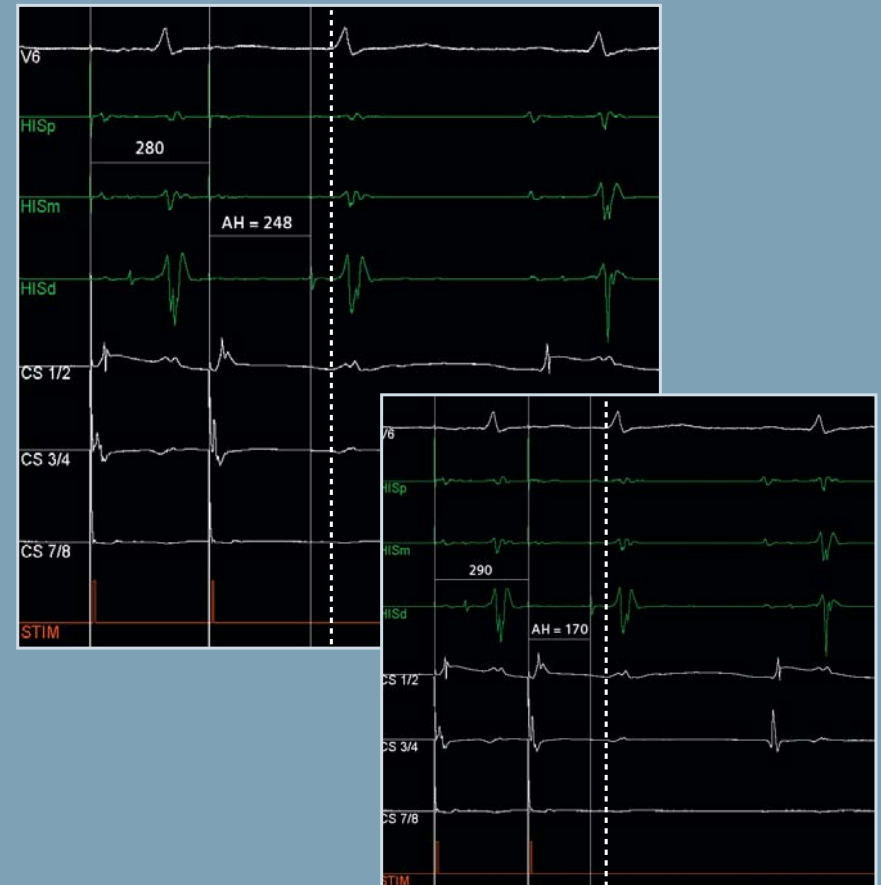
Decision



syngo InSpace EP

Detailed information on the anatomy of the patient's pulmonary vein ostia facilitates procedure planning for ablation of atrial fibrillation. Automatic segmentation of the left atrium and additional chambers is based on DynaCT Cardiac images. Segmentation results can be transferred directly to mapping systems. Created by syngo InSpace EP.

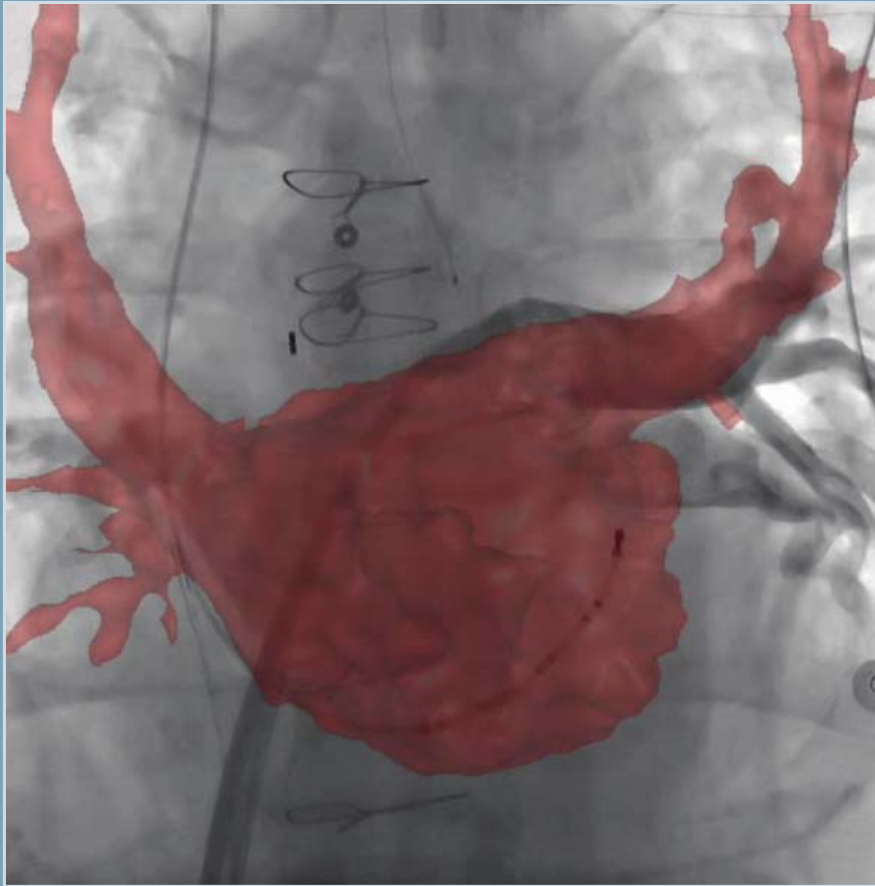
Decision



AXIOM Sensis XP

Recordings are displayed with outstanding signal quality. Jumps are detected by the ES Trigger and caliper functionality that greatly supports the monitoring during ablation. Created by AXIOM Sensis XP.

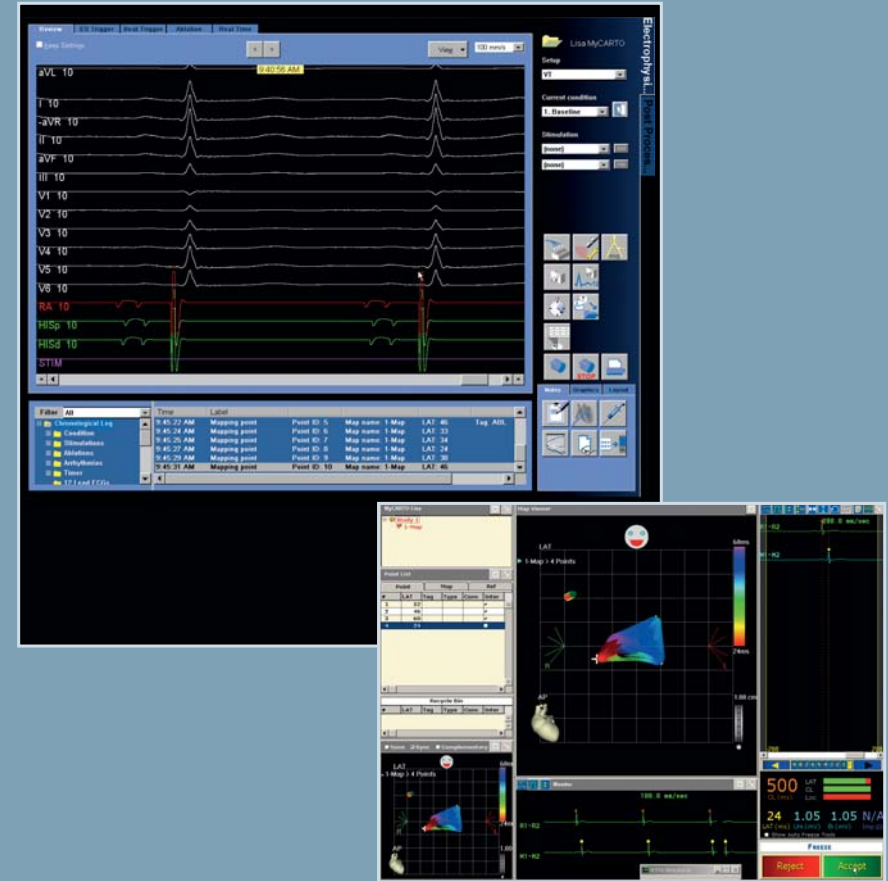
Guidance



syngo iPilot

The overlay function offers significant benefits during ablation, increases safety and potentially shortens the procedure time. By using dynaCT images, there is no need for time-consuming registration. Combine 3D visualization of segmented LA with live fluoroscopy to facilitate orientation during ablation therapy. Created by syngo iPilot.

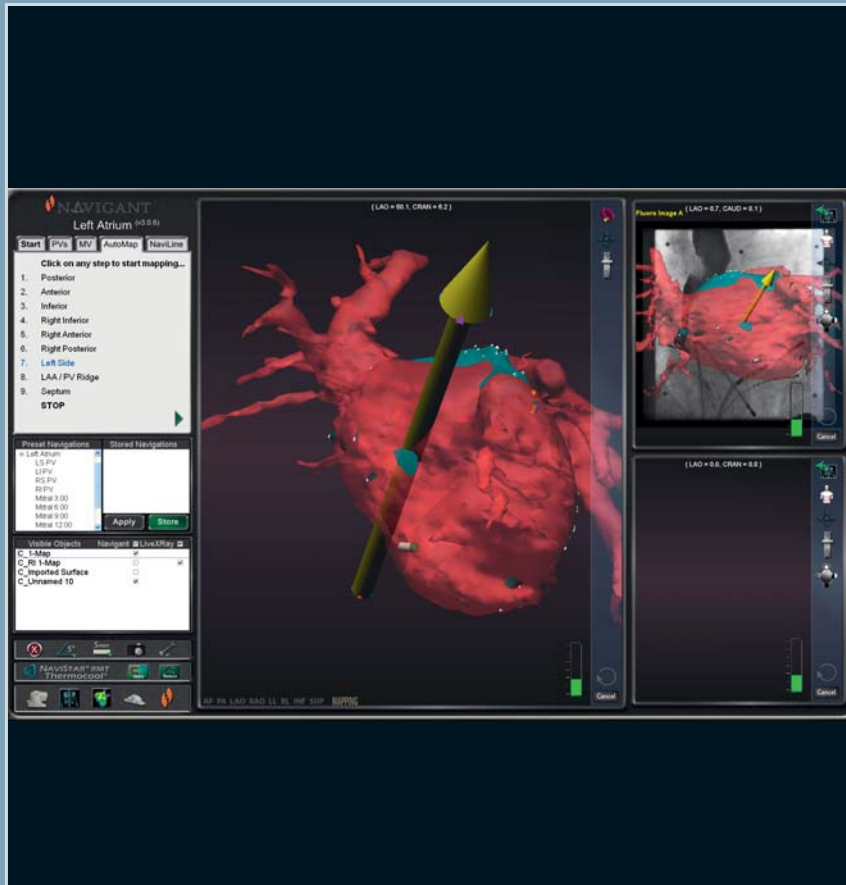
Guidance



CARTO interface

Combine detailed information about electrical activity with anatomical localization. Bidirectional communication between recording and electroanatomical mapping system enables synchronization of event logs. Segmentation results from syngo DynaCT Cardiac can be transferred to CARTO and merged with the electro-anatomical map. Created by AXIOM Sensis XP.

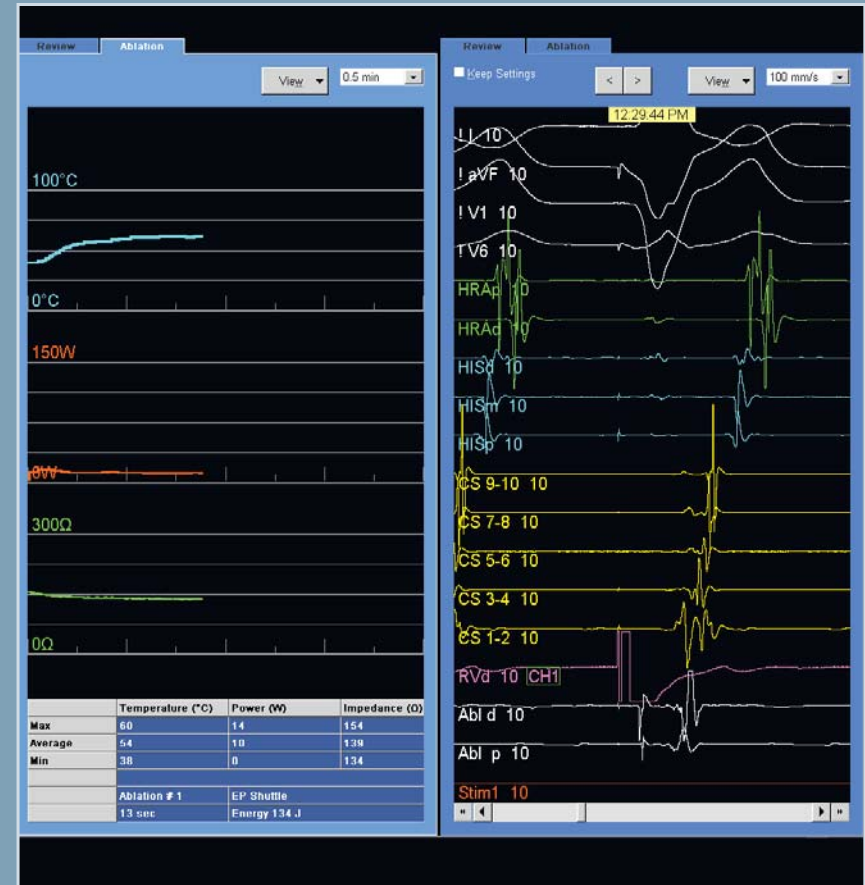
Ablation



Magnetic Navigation

Precise steering of magnetically enabled devices in a magnetic field leads to time and dose savings in ablation therapy. Catheters can be remotely guided to sites marked on the display. Ablation results are improved, thanks to stable wall contact of devices.
Created by NIOBE® II (Stereotaxis).

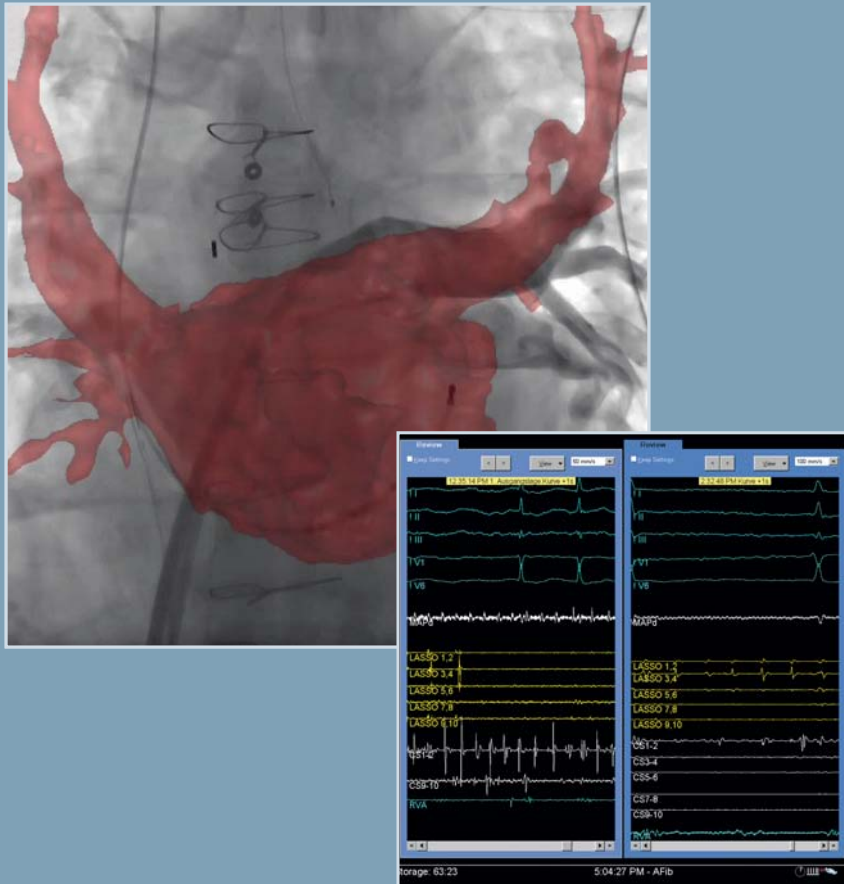
Ablation



AXIOM Sensis XP

Clear and crisp signals during ablation and graphical display of ablation parameters for maximum confidence in ablation therapy. Displays a large number of waveforms. Set-ups according to the user's preferences. Created by AXIOM Sensis XP.

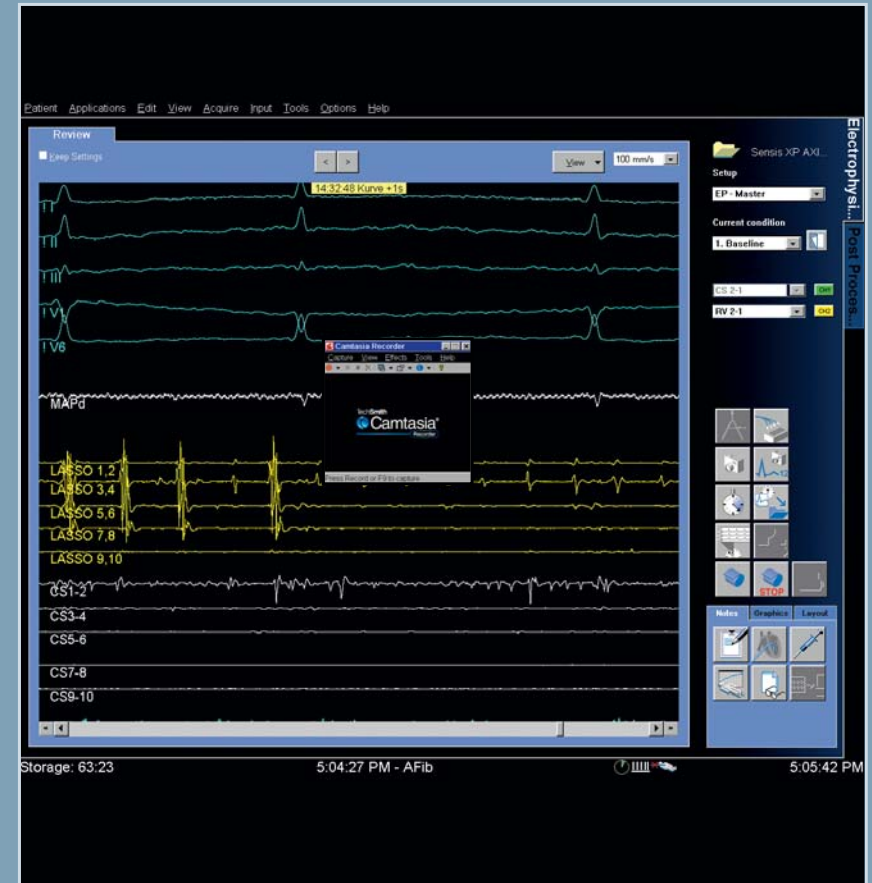
Check



AXIOM Sensis XP

Complete electrical isolation of the pulmonary veins is the target for ablation of atrial fibrillation. Identify remaining gaps with a lasso catheter. Created by AXIOM Sensis XP and syngo iPilot.

Check



AXIOM Sensis XP and Camtasia video

The final check shows sinus rhythm. 12-lead ECG snapshots can be used for documentation purposes. Recording sequences can be exported as a movie for presentations. Created by AXIOM Sensis XP and Camtasia video.

Report

AXIOM Sensis XP report interface showing patient information, medication table, and anatomical diagrams.

Time	Medication	Amount	Route
14:42	heparin	300	iv
14:47	clopidogrel	75mg	iv
14:47	GI	5000	blow
14:48	Advan	10mg	iv

Entry	Removed	Catheter	French	Length	Entry
14:45	18:11	4 Polar EP Catheter	8		Removed via right
14:47	18:11	4 Polar EP Catheter	8		Removed via right
14:48	18:11	4 Polar EP Catheter	8		Removed via left

AXIOM Sensis XP

From stimulation protocol to ablation summary and X-ray dose, customized report templates are automatically completed with preselected data. Fluoro images, waveforms, and images like CARTO Merge or the segmented left atrium can be integrated for more comprehensive reports.

Created by AXIOM Sensis XP.

Report

syngo Dynamics report interface showing a grid of electroanatomical maps and various rhythm analysis panels.

Baseline Rhythm: **Normal**

ECG Rhythm (V5/2): **Normal**

Refactory Periods: **Normal**

Brady arrhythmias:

Condition no.	Date/Time	Event Label	Event Comment	Arrhythm cycle length	Onset time
1	14:42:00	Normal			

Tachy arrhythmias:

Condition no.	Date/Time	Event Label	Event Comment	Arrhythm cycle length	Onset time
2	14:42:00	Normal			

Potential data conflict with PACS - notify system administrator

ghossein EP Worksheet | View Data... | Set All Normal | Print...

syngo Dynamics

syngo Dynamics is a multi-modality image review, archiving, and reporting system with a real time interface to AXIOM Sensis XP. The system was designed to improve the efficiency of clinical procedures through intuitive, evidence-based reporting.

Created by syngo Dynamics.



Artis zee family with AXIOM Sensis XP

Single and biplane imaging with integrated recording solution

Imaging excellence

- ECG-gated fluoroscopy
- Intra-procedural 3D imaging
- 2D/3D overlay without registration

Enhanced workflow

- Interface to mapping systems
- Integration with magnetic navigation
- Integration with AXIOM Sensis XP



Artis zee Large Display

As the amount of information increases, so does the need to present all information needed for the next workflow step directly at the tableside. The Artis zee large Display offers a solution to this challenge

- 8 megapixel, medical-grade 56" display
- 21 input sources
- Layout configuration at tableside

Integrated solutions increase the efficiency of ablation procedures

Whether monoplane, biplane, multi-axis, or combined with magnetic navigation, the complete Artis **zee** portfolio enables advanced imaging from 2D to 4D for optimal clinical outcomes during ablations.

The integration of our Artis **zee** imaging solutions and the AXIOM Sensis XP recording system supports accurate diagnosis and efficient treatment of complex arrhythmias.

Further information on Artis **zee** systems and the integrated recording solution can be found in the Artis **zee** portfolio brochure and the respective product information or ask your local Siemens representative.

Download the latest cases for intra-procedural 3D imaging in electrophysiology:

www.siemens.com/DynaCTCardiac-Cases

All features mentioned are not necessarily standard.



Artis **zee** Multi-axis system

Multi-axis system based on robotic technology for cardiovascular procedures

- syngo DynaCT Cardiac acquisition in head, side, or lateral position
- Flexible working heights help reduce fatigue
- Multiple park positions and flexible positioning for unmatched patient access

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