

# Sensis Vibe

Amplify productivity

[siemens-healthineers.com/sensis](https://siemens-healthineers.com/sensis)



# The field of cardiovascular interventions is rapidly changing

The global burden of cardiovascular disease (CVD) is immense. With over 17 million deaths per year, CVD is the leading global cause of death. This figure is expected to rise to more than 23 million by 2030.<sup>5</sup>

The factors that drive this development are clearly visible: Obesity doubled globally between 1980 and 2008. Arterial hypertension has also risen dramatically over the same period.<sup>6</sup> Aging populations, insufficient physical activity and adoptions of western lifestyle all over the globe lead to an increasing number of patients with cardiovascular diseases. This development increases the demand for cardiovascular procedures.

At the same time, economic pressure is causing healthcare providers to adopt new paradigms of care that counteract the general trend of increasing costs for cardiovascular treatment. To service more people at lower costs while still providing state-of-the-art patient care, institutions will have to streamline their interventional workflows and documentation processes, enable interventional lab sharing, and ensure reliable data transfer and billing.

<sup>1</sup> [www.who.int/en/news-room/fact-sheets/detail/obesity-and-overweight](http://www.who.int/en/news-room/fact-sheets/detail/obesity-and-overweight)

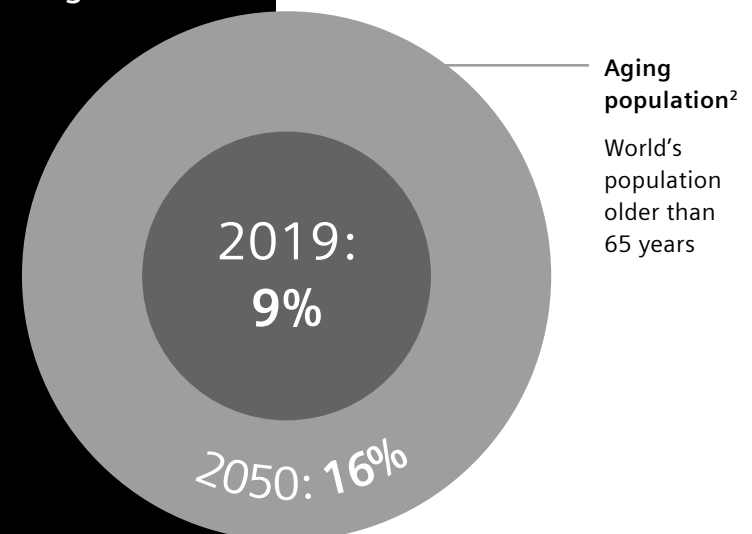
<sup>2</sup> [www.un.org/en/sections/issues-depth/ageing/](http://www.un.org/en/sections/issues-depth/ageing/)

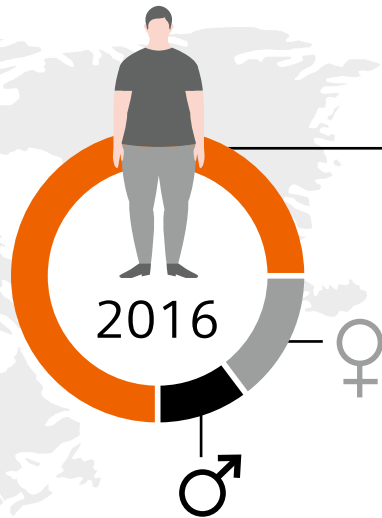
<sup>3</sup> [www.who.int/health-topics/cardiovascular-diseases/](http://www.who.int/health-topics/cardiovascular-diseases/)

<sup>4</sup> Decision Resources Group Medtech360 (Mar 2018) & own extrapolation

<sup>5</sup> World Heart Federation. State of the Heart – CVD Report. [www.world-heart-federation.org/?id=5537](http://www.world-heart-federation.org/?id=5537)

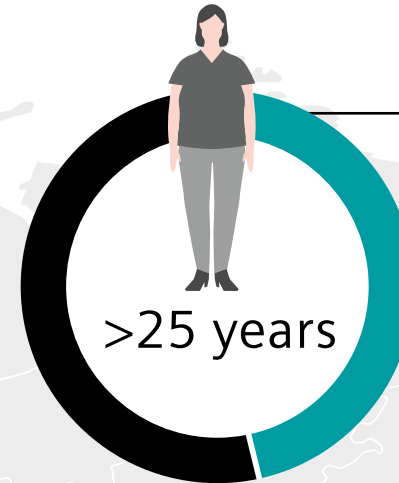
<sup>6</sup> The Worldwide Environment of Cardiovascular Disease: Prevalence, Diagnosis, Therapy, and Policy Issues: A Report from the American College of Cardiology. JACC Vol. 60 Suppl 5, No. 25. <http://dx.doi.org/10.1016/j.jacc.2012.11.002>





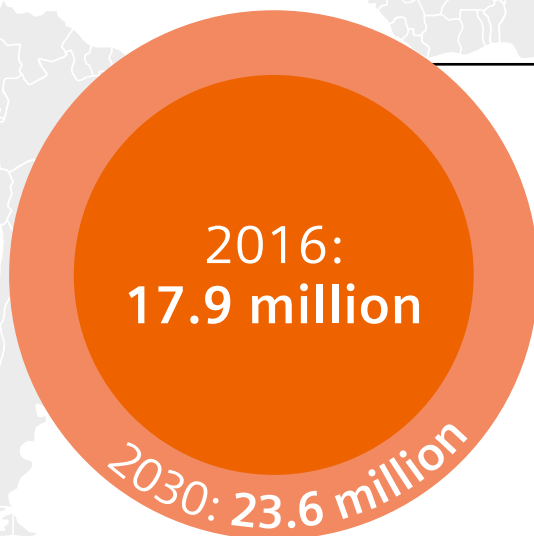
### Obesity<sup>1</sup>

2016:  
overweight people (18+): 1.9 billion  
· 39% of men  
· 40% of women  
  
obese people (18+): 650 million  
· 11% of men  
· 15% of women



### Arterial Hypertensions<sup>2</sup>

About 40% of people over the age of 25 have high blood pressure.

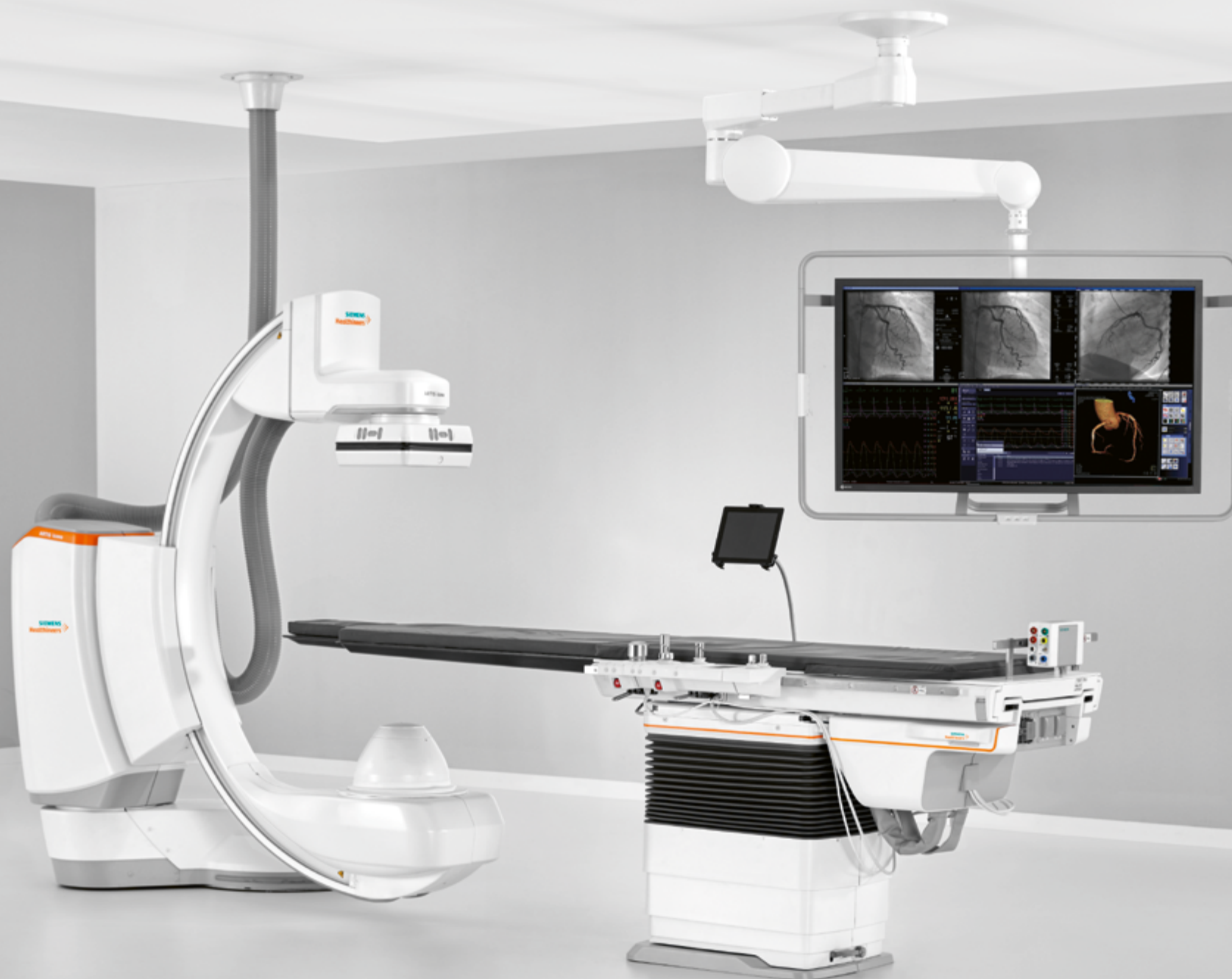


### Deaths caused by CVDs<sup>3</sup>

2016:  
17.9 million = 31%  
of all global deaths



### Growth in cardiovascular procedures<sup>4</sup>



# **Sensis Vibe tunes up, blends in, pays off**

Cath labs and hybrid ORs are busy places where many things are happening at once. Even if a procedure is routine, all moves need to be synchronized, and the entire team has to be on the same wavelength. Documenting the procedure must blend into this flow.

Imagine a documentation system so anticipative it feels like a member of your team. A system that catches the Vibe and lets you handle administration along the way – without missing a beat.

This system is Sensis Vibe.

Sensis Vibe® is the vital core where all events, decisions, measurements, and data from your procedures are captured. It reduces administrative effort and standardizes documentation and reporting across interventional entities. Sensis Vibe intuitively blends into the rhythm of the interventional floor and tunes up your workflow efficiency.





# Sensis Vibe – tunes up

**In the cath lab you have to continuously balance critical duties in order to ensure patient safety and document the course of the procedure for follow-up care and administrative purposes.**

**Sensis Vibe's core principle is ease of use at every step of the procedure. From the one-stop patient registration between Sensis and Artis to adaptable workflow support programs, Sensis Vibe helps you keep the focus where it truly belongs – on the patient.**

- Get up to speed quickly with the new intuitive user interface and FlashDoc® functionality
- Customizable workflow support programs with configurable activities to help standardize procedures
- Profit from clinical decision support tools like SAI and FFR
- Enjoy smart, automated, and adaptable data validation for complete and consistent reports at the end of the procedure
- Integrate Sensis Vibe in the hybrid OR and rely on the same recording and documentation system in the hybrid OR and cath lab

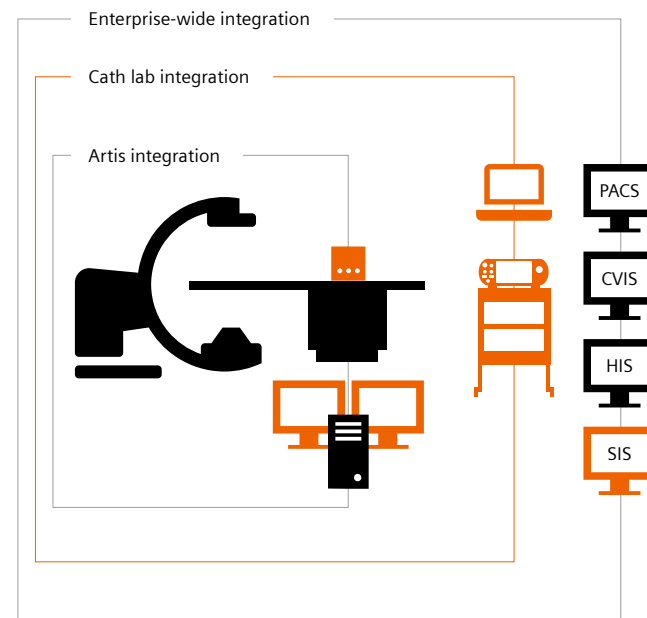


# Sensis Vibe – blends in

As an IT administrator you need to ensure data consistency, system stability, and interoperability. To support you in meeting the evolving demands for standardization and accountability, Sensis Vibe smoothly blends in with your IT infrastructure and easily adjusts to individual needs. And when it comes to reliability – you can simply take stability for granted with Sensis Vibe.

## Smooth, reliable, and secure

- Ensure reliable data transfer to various hospital IT systems – Sensis Vibe uses the following interface languages: ASCII flat file, XML, DICOM, and HL7
- Easily adapt documentation to your requirements with the highly tailored Sensis Information System (SIS) database
- Enable institution-wide integration with multi-lab connectivity
- Reduce billing errors through seamless information integration with billing systems
- Prevent data loss and downtime with Sensis Vibe's new local cache
- Maximize utilization and ensure extended data security with Sensis Vibe's virtual server appliance





# Sensis Vibe – pays off

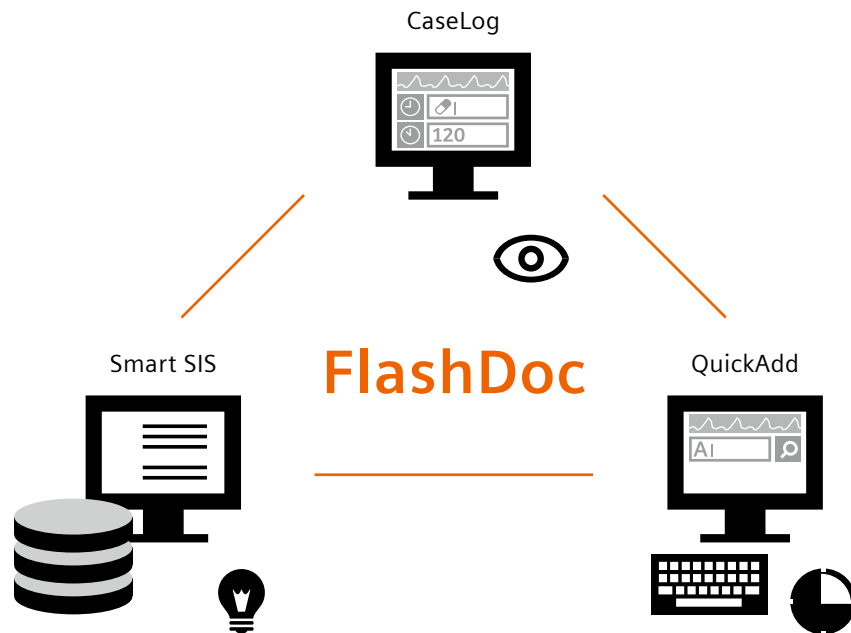
**As a health service provider you need to manage costs and revenue to sustain state-of-the-art patient care for today and tomorrow. Sensis Vibe positively impacts your bottom line in many ways, from speeding up data management to showing you the big picture of your interventional floor's efficiency.**

## **Maximize your efficiency**

- Improve efficiency with Sensis Vibe's optimized documentation process
- Enable interventional lab sharing among disciplines with the Sensis Vibe/EP combo solution
- Get the full picture for analyzing, controlling and benchmarking interventional floor statistics
- Protect your cash flow by providing complete and accurate procedure data for billing
- Benefit from new features and workflow improvements over the entire product lifecycle with Sensis Vibe's comprehensive upgrade opportunities

# FlashDoc

Sensis Vibe's new user interaction concept prominently features FlashDoc, a completely redesigned procedure data documentation philosophy. Targeting optimal ease of use, FlashDoc includes three core components – QuickAdd®, CaseLog, and an even smarter version of the Sensis Information System (Smart SIS) – all embedded in a new, intuitive user interface.



- **QuickAdd** enables simplified data entry using auto-completion, which speeds up procedure data capture.
- **CaseLog** offers an optimized, time-stamped overview of all hemodynamic/electrical events and other occurrences recorded or manually captured.
- **Smart SIS** helps to create a consistent record with individually defined validation rules that verify entries and measurements automatically.



# Advanced applications

## SAI

Sensis Vibe offers special features for advanced users, such as automated calculation of the systolic area index (SAI) that provides a very efficient method for diagnosing and documenting constrictive pericarditis.



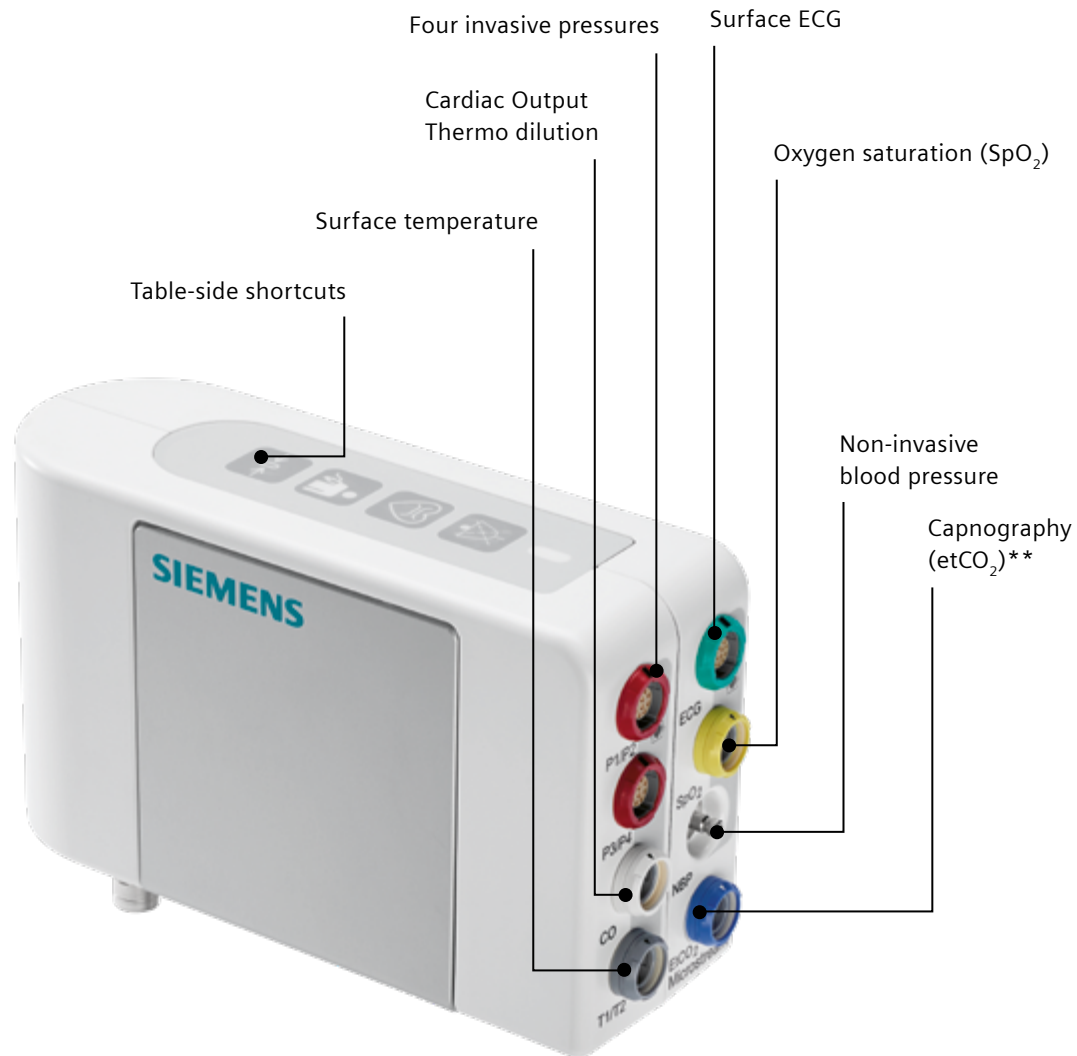
## FFR and Pd/Pa

Sensis Vibe enables flexible measurement of the fractional flow reserve (FFR) and resting indices (Pd/Pa) by integrating pressure wires from Boston Scientific and Abbott as well as ACIST FFR microcatheters.

Sensis Vibe allows easily to choose between FFR and the hyperemic-free assessment resting Pd/Pa. In order to optimize the workflow, all resulting FFR and NHPR's data (numerical values and waveforms) are stored into the Sensis Vibe database and can be embedded into the final reports.



# HemoBox



## Sensis Vibe for hemodynamics

The extremely compact signal input unit for hemodynamic recording reduces the hardware impact in the examination room by 82 percent\* and offers flexible mounting options.

## Hybrid OR integration

Sensis Vibe's HemoBox also meets the hygienic standards of a surgical environment (IPX4 compliance). This enables you to offer fully integrated care when treating a previous patient in a cath lab and hybrid OR by providing the same range of invasive signals in both environments. With Sensis Vibe, data and measurements from previous interventions are now natively available in the hybrid OR.

## A scalable solution for hemodynamics and EP

Sensis Vibe can be extended to a combined system featuring both hemodynamic and electrophysiology acquisition. The ComboBox is flexibly configurable and offers outstanding IECG signal quality, even during ablation.

\* Compared with Sensis VC12 hemo hardware

\*\* Option

# ComboBox for EP

Further advantages: Since you need only one system for both hemodynamics and EP, you need less space, you have only one interface resulting in less training, you have all data in one database, and you can minimize your hardware investments.

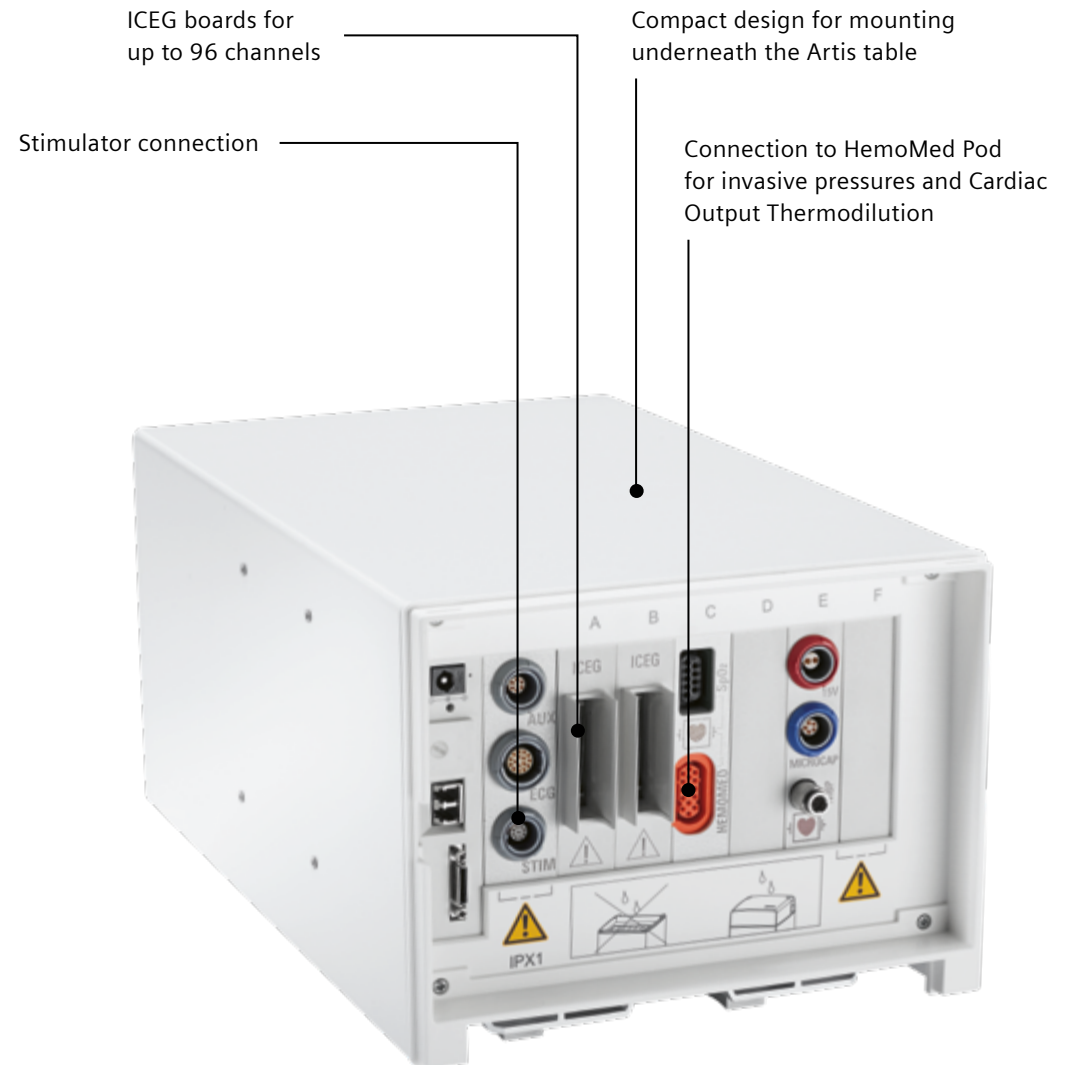
During complex EP procedures, Sensis Vibe serves as the central puzzle piece connecting key therapeutic equipment in the lab: the angio system, stimulators, ablaters, and mapping system.

Sensis Vibe also grows with your EP lab as it lets you easily add a further IECG board to expand your clinical capabilities in EP.

## Excellent signal quality during ablation



Courtesy: Karolinska University Hospital, Huddinge, Stockholm, Sweden





# Sensis Vibe – interacts seamlessly



## Artis systems

Sensis Vibe is fully integrated with all Artis interventional angiography systems via a bidirectional interface. The Artis systems offer a broad portfolio of interventional imaging devices to cover all clinical needs in cardiology and electrophysiology, as well as in interventional radiology and surgery.



## Hybrid OR

Due to its IPX4 compliance, Sensis Vibe's HemoBox meets the surgical requirements for a hybrid OR. If you plan to invest in a hybrid OR, Siemens Healthineers is the right partner. Our experts will draw on our extensive experience in planning and installing hybrid ORs and hybrid labs. They will take into account your hospital's existing infrastructure and design a solution that best suits your needs.



## Advanced system support

Via our secure data link Siemens Remote Service (SRS), Sensis Vibe can be connected to the service experts in our Customer Care Center. Via SRS, the performance and condition of your equipment can be monitored in real time. SRS makes a broad range of proactive and interactive services available – including fast error identification, remote repair and software updates, preventive maintenance, and collaboration services.

# Why Siemens Healthineers?

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving the patient experience, all supported by digitalizing healthcare.

An estimated 5 million patients globally benefit from our innovative technologies and services every day in the areas of diagnostic and therapeutic imaging, laboratory diagnostics and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 120 years of experience and 18,500 patents globally.

With around 50,000 dedicated colleagues in more than 70 countries, we will continue to innovate and shape the future of healthcare.

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