SIMULANDS

simu SLICE
LAA

PULSATILE PROCEDURAL HEART SIMULATOR
FOR TRANSCATHETER LEFT ATRIAL APPENDAGE OCCLUSION

PROCEDURAL SKILLS & IMAGING TRAINING

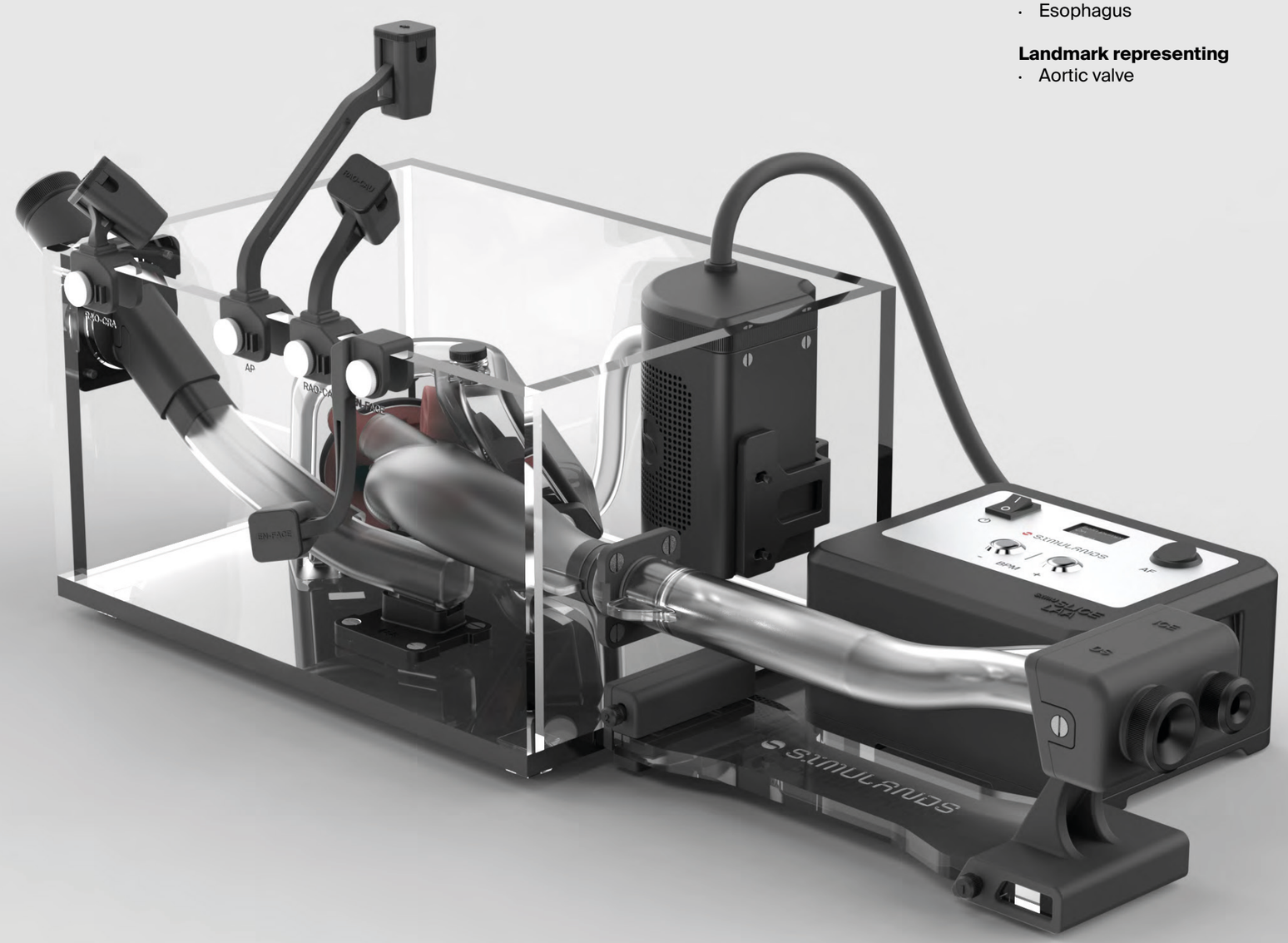
The simuSLICE pressure platform simulators offer pulsating movement of the targeted structure

FOCUS

- Procedure and imaging

LEARN

- Procedural imaging echo and fluoro
- Advanced anatomical landmarks
- Delivery system and implant maneuvering in wet environment
- Delivery system and device functions - interaction with moving structures
- Detailed procedural steps training



RIGID STRUCTURES

- Femoral transseptal access
- ICE catheter access
- Transesophageal access

SOFT STRUCTURES

- Inferior vena cava
- Right atrium
- Fossa ovalis
- Pulmonary vein
- Left atrial appendage
- Mitral valve
- Esophagus

Landmark representing

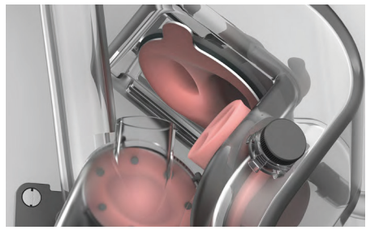
- Aortic valve

CAMERAS

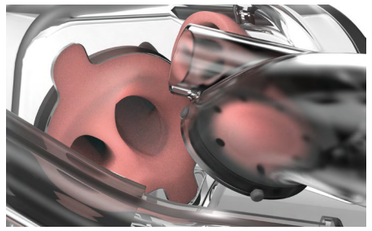
Four video cameras replicating the full spectrum of main fluoroscopic and echocardiographic views.
1x tablet with split screens for visualization and training session recording.

1. RAO-CRA

2. AP



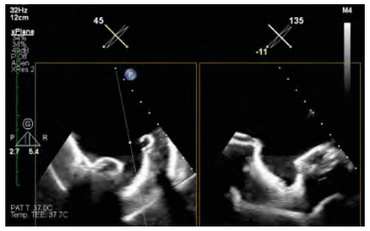
3. RAO-CAU



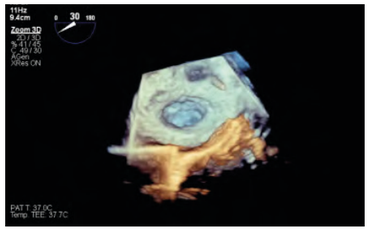
4. En-Face

REAL IMAGING ECHO, ICE AND FLUORO COMPATIBLE

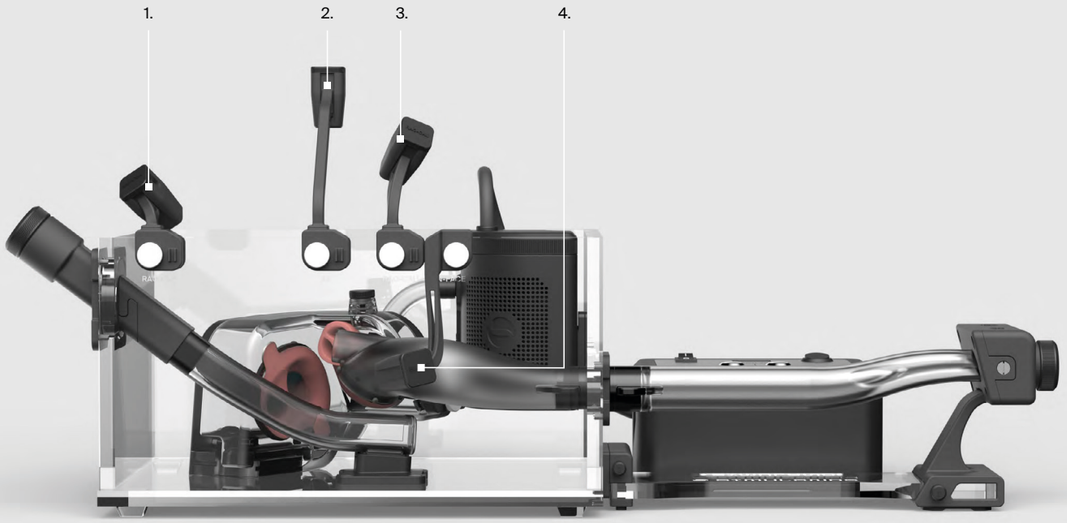
Real-time imaging training with ultrasound systems visualizing the structures of interest and the device in a realistic anatomical setting.
Customized imaging to suit you needs.



X-Plane of LAA



3D En-Face of LAA



HUMAN GRADE PLATFORM

MODULAR ANATOMICAL SYSTEM

- Device-anatomy tactile interaction in wet environment with pulsatile LAA movement
- Replicating human grade anatomy of interest: inferior vena cava, right atrium, fossa ovalis, pulmonary vein, left atrial appendage structure and mitral valve
- Based on real patients CT, MRI and 3D echo datasets

SIMULATOR COMPONENTS

Promotes understanding of 3D anatomy from 2D displays with integrated video-camera systems and fine hand-eye coordination.

MULTIPLE PATIENT SCENARIOS

Basic - Simplified LAA anatomy.
Advanced - Challenging procedure maneuvering with pre-punctured fossa ovalis.
Exchangeable challenging LAA anatomies.

PULSATILE EXPERIENCE

- Delivery system and implant maneuvering in wet environment
- Realistic imaging with pulsating structures

MATERIALS

Proprietary materials enhance the human grade experience with high level of echogenicity.

TECHNICAL FEATURES

PULSATILE SYSTEM

- Pulsatile portable pump system for realistic LAA movement
- Self-adjustable body temperature control (36.7°C)
- Adjustable heart rate between 40-80BPM
- Atrial fibrillation mode
- Adjustable pulsatile intensity

POWER SYSTEM

- 12V powered system with socket for various power cables and plugs
- Worldwide compatible with voltage from 100 to 264V at a frequency from 50 to 60Hz

PLUG AND PLAY

No tools required - full system setup ready in under 10 minutes.
Just add warm water and it’s ready for your device.

IMAGING CAPABILITIES

- All components can be used in the cath lab under fluoroscopy
- Four video cameras
- 1x tablet with split screen capabilities for visualization and recording
- Transesophageal access route and realistic esophagus

AQUARIUM

10L - quick water fill container included.

SETUP INFO

Electronic IFU documentation with Step-by-Step video user training and guide for simple assembly.

IN THE BAG

All fits into: backpack
Total weight: 8kg
Dimensions: 50x40x22cm

JOIN THE SIMULANDS REVOLUTION

Our simulator components replicate the characteristics of the human anatomy. The simulators are engineered to reproduce real life haptic interaction of the medical devices within the targeted anatomy, representing true anatomical geometries and trajectories. All of our simulators can be used under real echo and fluroscopic guidance.

SHIFTING THE PARADIGM

From Patient and Animal testing to platforms for R&D and comprehensive Hands-On procedural training using:

- Real Devices
- Real Imaging
- For the Real Heart Team

SIMULANDS systems designed and validated according to **all relevant ISO normative** requirements of clinical and technical equivalence to the human cardiovascular systems.

Our simulators are used for **human factor testing**, usability and ergonomics and meet required benchmarks of various competent authorities, ethics committees and notified bodies (CE, FDA, MDR).

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