EndoNaut®

Intraoperative navigation system with image fusion
to optimize endovascular procedures

Aorto-iliac Edition

Bring the fusion technology everywhere

Endonaut® is a technologically leading 3D image fusion device that allows the physician to perform navigation directly at the interventional table. Compatible with most current C-arms, it can be intuitively controlled by the user via a smart touchscreen. Intraoperative tools such as predictive simulation of vascular deformation create an out-standingly precise visualization for accurate interventions.
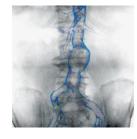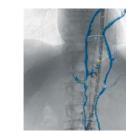
Algorithm based on artificial intelligence

✓ Plug & Play

✓ Available at an affordable cost

✓ Adapts easily to the surgeon's operating room

✓ More confidence, accu-racy and visual comfort during procedures

✓ Immediately ready for use with mobile or fixed C-arms

✓ Controlled by the surgeon right from the interventional table

✓ Helps reduce contrast media and X-ray dose

✓ Stand-alone, independent system – no cloud connection via internet required

Applications

EVAR

B / FEVAR

TEVAR

Recanalization / Embolization

Import your 3D data set to prepare your image fusion

– **Benefit from the use of high resolution images from the CT scan** as a basis for precise 3D image fusion

– **Import the data from EndoSize® with your complete OR planning** to have your 3D volume with all relevant information such as all measurements, endograft name and C-arm positioning

– **Alternatively, start directly from DICOM** to get immediate information for the image fusion when no planning is possible, e.g. in emergencies

Check all preoperative data on screen

– **Display the preoperative planning digitally on the main screen** to get prepared for the upcoming procedure

– **Check all information related to the procedure**, like CT-Scan, 3D volume, or measurements created by EndoSize® – now and at any time of the procedure
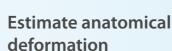
Connect EndoNaut® flexibly to your imaging systems

– **Benefit from the freedom to use EndoNaut® with different imaging systems in your hospital,** as it has an open interface to any C-arms and fixed installed systems

– **Save time with the Plug & Play solution** by connecting EndoNaut® to the imaging system by one DVI cable only

– **Move the EndoNaut® easily from one operating room to another** as the system is compact and mobile, and place it by the interventional table

Generate image fusion with ease

– **Merge fluoroscopy and CT images automatically** by using a patented image registration algorithm to get your 3D fusion in seconds – easy, fast and reliable

– **Work with ready-made 3D volume generated in seconds, with either a small amount of contrast media or none at all** (depending on the procedure)

Estimate anatomical deformation

– **Use a predictive visualization of deformed vascular structures** as an intelligent algorithm calculates the deformation caused by stiff guidewire and device insertion

– **Create a reliable basis for accurate navigation and intra-operative measurement** with the predictive estimation of anatomical deformations, which is unique on the market
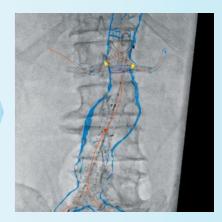
Navigate intuitively directly from the interventional table

– **Use a smart digital zoom** for greater convenience, without the need for zooming with the C-arm or for an additional X-ray dose

– **Display the arteries' centerlines** and navigate within the 3D anatomy via fingertips, showing specific CT images and taking extra measurements intraoperatively

– **Use the ostia and markers set in EndoSize® and add additional markers** directly with the touchscreen as necessary during the procedure

EndoSize®

Your comprehensive solution for endovascular procedure planning
Create your planning easily in minutes to gain more confidence that all details of the procedure have been taken into account.

Patented EndoNaut technology:
U.S. Patent Number 11564750
U.S. Patent Number 10959780

Request an EndoNaut® demo in your OR.
Contact us and we will put you in touch
with your local distributor.

International support team at your side
contact@therenva.com
www.therenva.com