



# EndoNaut

Intraoperative navigation system with image fusion  
to optimize endovascular procedures

Peripheral Edition



## Bring the fusion technology everywhere

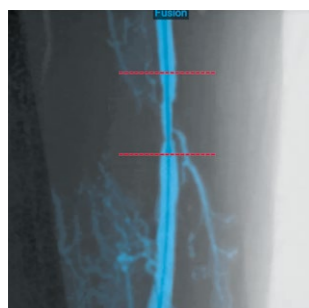
EndoNaut is a technologically leading image fusion device that empowers surgeons to conduct precise navigation directly at the interventional table. Compatible with most current C-arms, it can be intuitively controlled by the user via a smart touchscreen. The ability to generate panoramic views combined with the precision of the dedicated image fusion help the surgeon to significantly reduce the X-ray dose and the contrast media volume during Peripheral Arterial Disease (PAD) procedures\*.



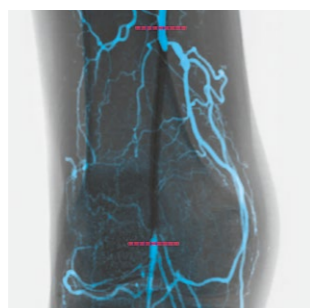
Algorithm based on artificial intelligence

- ✓ Plug & Play
- ✓ Exclusively PAD dedicated fusion technology
- ✓ Available at an affordable price
- ✓ Adapts easily to every surgeon's operating environment
- ✓ More confidence, accuracy 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



Stenosis



Thrombosis





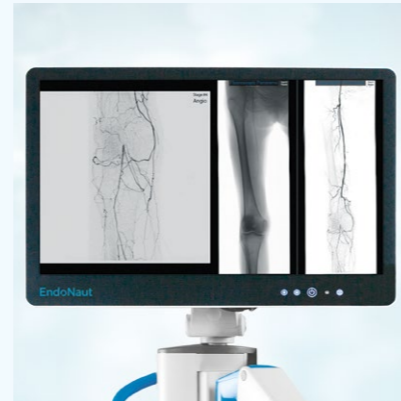
### Import your Angio CT scan, if available

- Review the patient Angio CT scan, if necessary and available
- Make any measurements on the CT scan and visualize the 3D volume before the procedure starts
- Alternatively, begin the procedure by directly connecting EndoNaut to the C-arm



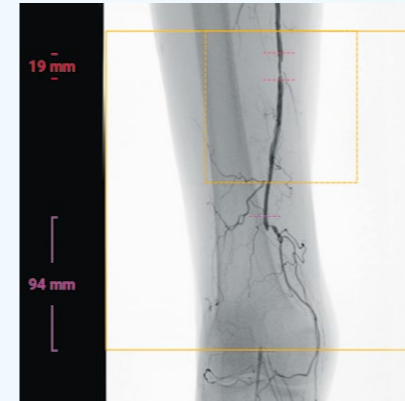
### Connect EndoNaut flexibly to your imaging systems

- Benefit from the seamless compatibility of EndoNaut with different imaging systems within your hospital, due to its open interface with both C-arms and fixed angiography systems
- Save time with the Plug & Play solution by requiring only a DVI cable for connecting EndoNaut to the imaging system
- Move the EndoNaut easily from one operating room to another as the system is compact and mobile, and place it by the interventional table



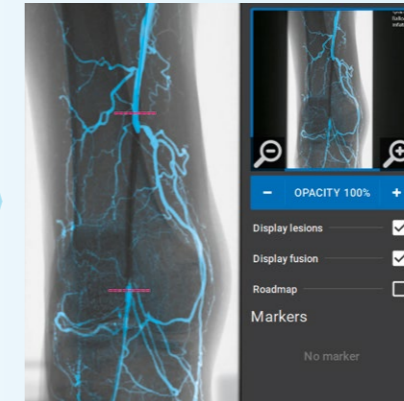
### Generate preoperative panoramas

- Easily create comprehensive preoperative panoramas, by stitching both fluoroscopic and angiographic limb images
- Display automatically a mixed panorama, getting a detailed view of the entire lower limb



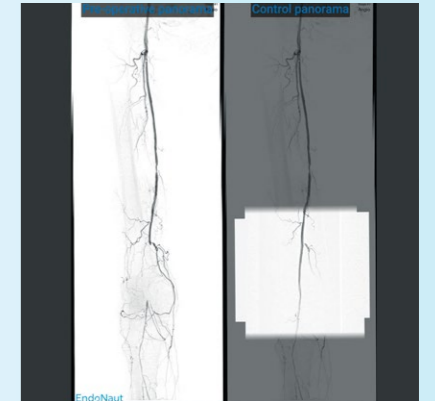
### Identify and mark all the lesions

- Mark thrombotic and stenotic areas within the panorama to get a clear picture of the required treatment approach
- Make a calibration to easily get lesion cues and length measurement
- Use the measurements to optimize the choice of balloons and stents, resulting in improved procedural outcomes



### Navigate intuitively thanks to the 2D image fusion

- Benefit from ready-made 2D fusion at no additional contrast and reduced X-ray dose\* based on a patented image registration algorithm
- Experience fast unlimited adjustments to follow any shift of the surgical table or patient movement, at no extra contrast



### Generate post operative panoramas for outcome assessment

- Use control angiographic images to create a comprehensive postoperative panorama
- Compare pre- and post-operative views to get a clear indication of the procedure result



## EndoSize

### Your comprehensive solution for endovascular procedure planning

Create precise planning within minutes, with the confidence that every procedural detail has been carefully considered.

\*Validation through clinical research:  
Endovascular revascularization using two-dimensional fusion imaging led to a reduction of >30% in both the contrast medium volume and the dose-area product.

"EndoNaut two-dimensional fusion imaging with a mobile C-arm for endovascular treatment of occlusive peripheral arterial disease", The Journal of Vascular Surgery (2021)

**Patented EndoNaut technology:**

U.S. Patent Number 11564750

U.S. Patent Number 10959780

U.S. Patent Number US11900620

**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**

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[www.therenva.com](http://www.therenva.com)

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EndoNaut® is a registered trademark of Therenva SAS. Therenva is constantly improving its products and reserves the right to update product specifications in accordance with applicable regulatory requirements. Country-specific data and options may apply.

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