# EndoNaut

Intraoperative navigation system with image fusion
to optimize endovascular procedures

Peripheral Edition

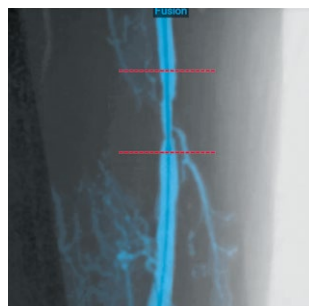# Bring the fusion technology everywhere

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*.
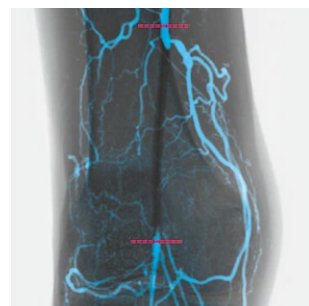
Algorithm based on artificial intelligence

✓ Plug & Play

✓ Exclusive 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
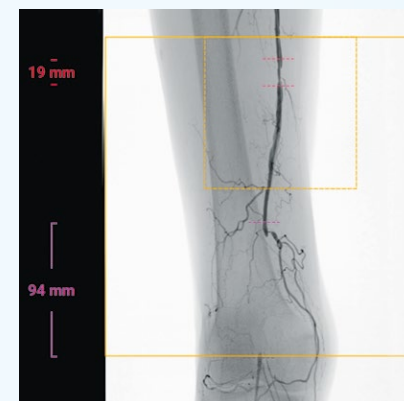
## Connect EndoNaut flexibly to your imaging systems

– **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
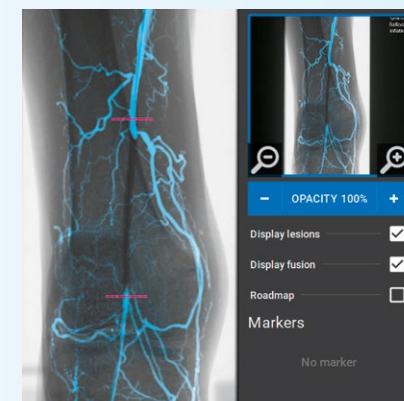
## Generate preoperative panoramas

– **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 postoperative 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.

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