Are you interested in the vasolab 320?
Then call us!
We would be pleased to tell you more about your possibilities with the vasolab 320.
The vasolab 320 is a modular designed system for the entire vascular diagnosis.

Measurement results of 2 extremities can be taken at the same time.

Examination processes, analysis of measurement results and evaluations of examinations are efficiently supported by examination programs which can be adjusted freely to examiners needs.

Main System
- Windows software
- Workstation type iMac
- Examination database
- Vasocart 320

Arterial function diagnosis
- Acral Pulse Oscillography (O-PO)
- Acral Blood Pressure Measurement (O-AP)
- Reactive Hyperemia (SG-AR)
- Segmental Pulse Oscillography (P-SPO)

Venous function diagnosis
- Digital Photoplethysmography (D-PPG / LRR)
- Phlebodynamometry (PDM)
- Vein Occlusion Plethysmography (SG-VOP, O-VOP)
- Filtration test

Bidirectional Doppler
- Peripheral and extracranial (CW)
- Transcranial (TCD)
- Automatic examination programs to calculate Ankle-Brachial-Index (ABI) and Toe-Brachial-Index (TBI) with automatic cuff control.

Vasodop 1000 - the integrated Doppler system
Doppler system for peripheral, extracranial and transcranial vessel diagnosis.
- Ultrasound Doppler frequency
  2 MHz (TCD)
  4 MHz and 8 MHz (CW)
- Examination programs (vessel list) can be adjusted freely to the examiners needs.
- Examination program to calculate Ankle-Brachial-Index (ABI) and Toe-Brachial-Index (TBI) with automatic cuff control.
- Doppler pressure measurement before and after exercise
- Clearly arranged examination results

Venous function diagnosis
- Digital Photoplethysmography (D-PPG / LRR)
- Automatic calibration ensures adaption to different skin structures and skin pigmentation
- Automatic detection of the venous refill time and venous blood absorption
- Automatic Tourniquet-Test

Vein Occlusion Test (SG-VOP), (O-VOP)
During the vein occlusion test the congestion maneuver as well as draining dynamic is measured with the help of classic strain gauge or optical sensors.
- Automatic detection of the venous refill time, the venous blood absorption and the venous outflow
Arterial function diagnosis

**Acral Pulse Oscillography (O-PO)**
An automatic calibration ensures adaption to different skin structures and skin pigmentations. Optical sensors measure the acral pulsation. Different sensor types can be selected:
- transmission sensors
- reflection sensors
- microcirculation sensors

**Acral Blood Pressure Measurement (O-AP) and detection of the Toe-Brachial-Index (TBI)**
Acral blood pressure measurement is carried out with congestion cuffs. Optical sensors are used to record pulsation (acral pulse oscillography). The pneumatic system ensures a correct inflation of the cuffs and also controls the deflation. The routine examination is controlled by an examination program (up to 5 cuff positions). Curve analysis can be carried out in different ways:
- automatic reading of systolic pressure
- automatic calculation of the Toe-Brachial-Index (TBI)
- manual evaluation of the pulse graph

**Segmental Pulse Oscillography P-SPO**
During the segmental pulse oscillography cuffs are controlled by a pneumatic unit. The examination program starts with a high cuff pressure. The decrease of air in the cuffs can freely be selected by the examiner. The examination program runs automatically.
- Automatic measurement with all pairs of cuffs (can be adjusted individually)
- Up to 10 segments are measurable with up to 10 pressure levels.
- Passive and active stress tests

**Reactive Hyperemia SG-AR**
During the reactive hyperemia examination cuffs are inflated to a supra-systolic level by pneumatic unit. After the occlusion phase, the arterial reserve will be measured. The settings of the self proceeding examination program can be changed individually.
- During the occlusion phase the pressure can be increased to a maximum of 250 mmHg.
- Measurement of arterial blood circulation at rest
**User interface**

- The structured screen design is characterized by high operating comfort and a short learning curve.
- User friendly operation with control bars, structured menus and interactive controls.
- System operation by keyboard, mouse or by remote-control.

**Applications interface**

- In the application interface the selected application will be started by using the default examination program.
- For monitoring purposes you can load previous examinations from the patient database.

**Result - work area**

- Clearly arranged examination results
- Easy and fast reporting by using text templates
- Automatic markers can be corrected manually.
- Using stored examination results makes patient monitoring possible.

**Documentation**

- On the printer protocol you will find all details about examiner, hospital, doctor’s office, examination notes and comments.
- All Examination results can be stored in a database and can be transferred by using GDT / DICOM / HL7 to an existing IT-System.
- Additionally it is possible to save the examination results as PDF file.

**Analysing software**

- The network compatibility of the vasolab 320 offers the opportunity to connect analysing stations across the network.
- Analysing Stations can be used for working on an examination (e.g. setting a marker), for making comments (e.g. findings) or for print out of examinations.

**Entering patients data**

- Selection of patients data from the patient database, using chipcards or add patient data manually.
- Transfer patient data from your existing IT-System, we support GDT, DICOM and HL7 interfaces.

**Examination - work area**

- Display the actual examination in real time. In addition the user is informed about the system status.
- Settings of predefined examination programs can easily be changed. In this way the examination follows defined worksteps.