

VasoScreen

The new dimension in
vascular diagnosis

— 4-Channel Pulse-Oscillography

Vascular screening • PAOD-diagnostic • therapy control

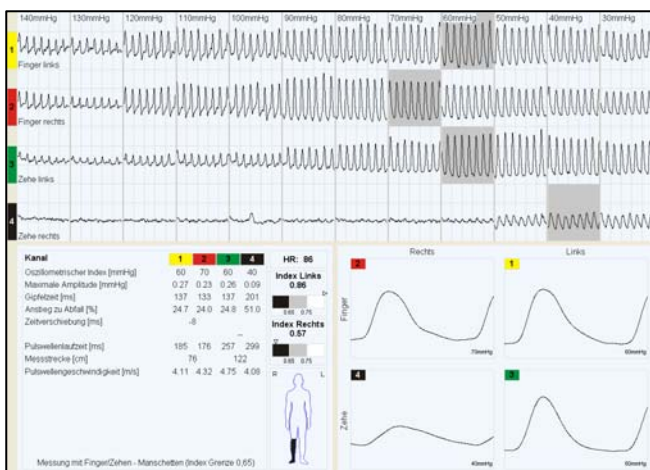
VasoScreen is based on the method of **Gesenius Keller** and enables a simultaneous oscillometric 4-channel measurement on wrist and ankle or optionally on finger and toe. The device can be upgraded to measure pulse wave velocity and derived parameters (an additional ECG channel is required).

Quick and easy in use



- Simultaneous four cuff measurement
- Examination time less than 5 minutes
- User independent method
- Computer assisted analysis
- Familiar Windows-user interface
- Post-processing of data
- Examination delegable

Reliable results



- Automatic parameter calculation
- Calculation of the peak time
- Ratio between rise and fall time
- Parameters with normal ranges
- Display of left-right differences
- Detection of Subclavian occlusions
- Also applicable with Mediasclerosis

The results are comparable with the values of a doppler measurement (ABI).

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Applications

- **PAOD- diagnosis**

A reliable determination of peripheral circulatory disorder is insured by the automated 4 channel measurement on wrist and ankle or optionally on finger and toe. Comparable to the Doppler Index the ratio of the oscillometric index from the lower and upper extremity is calculated. In contrast to Doppler **VasoScreen** - parameters are determined simultaneously and may also be used with Mediasclerosis patients (if measured on finger/toe).

- **Estimation of vessel status (vascular screening)**

Arteriosclerotic changes lead to a loss of vessel elasticity. In the initial phase these changes proceed without clinical symptoms. Therefore early diagnosis especially for high risk patients (e.g. diabetics) is important. The decreasing elasticity causes an increased pulse wave velocity, which can be measured and evaluated with the device (ECG-channel required).

- **Therapy control**

Blood circulation variations before and after dilatations, peripheral vascular training and medicamentous therapy can be objectified in a time and cost saving manner.

Technical data

Method	Pulse-Oscillography
Channels	4 channels oscillometric 1 channel ECG (for triggering of pulse wave parameters)
Cuff pressure	0 – 200 mmHg (+/- 2 mmHg)
Classification	Class IIa MDD, patient protection BF, insulation class I
Interface	USB
Dimensions / Weight	240 x 90 x 200 mm / 1,4 kg
PC-recommendation	PC necessary, IBM-compatible, USB-interface, operating system Windows 2000/XP, PC must meet all specifications of the MDD