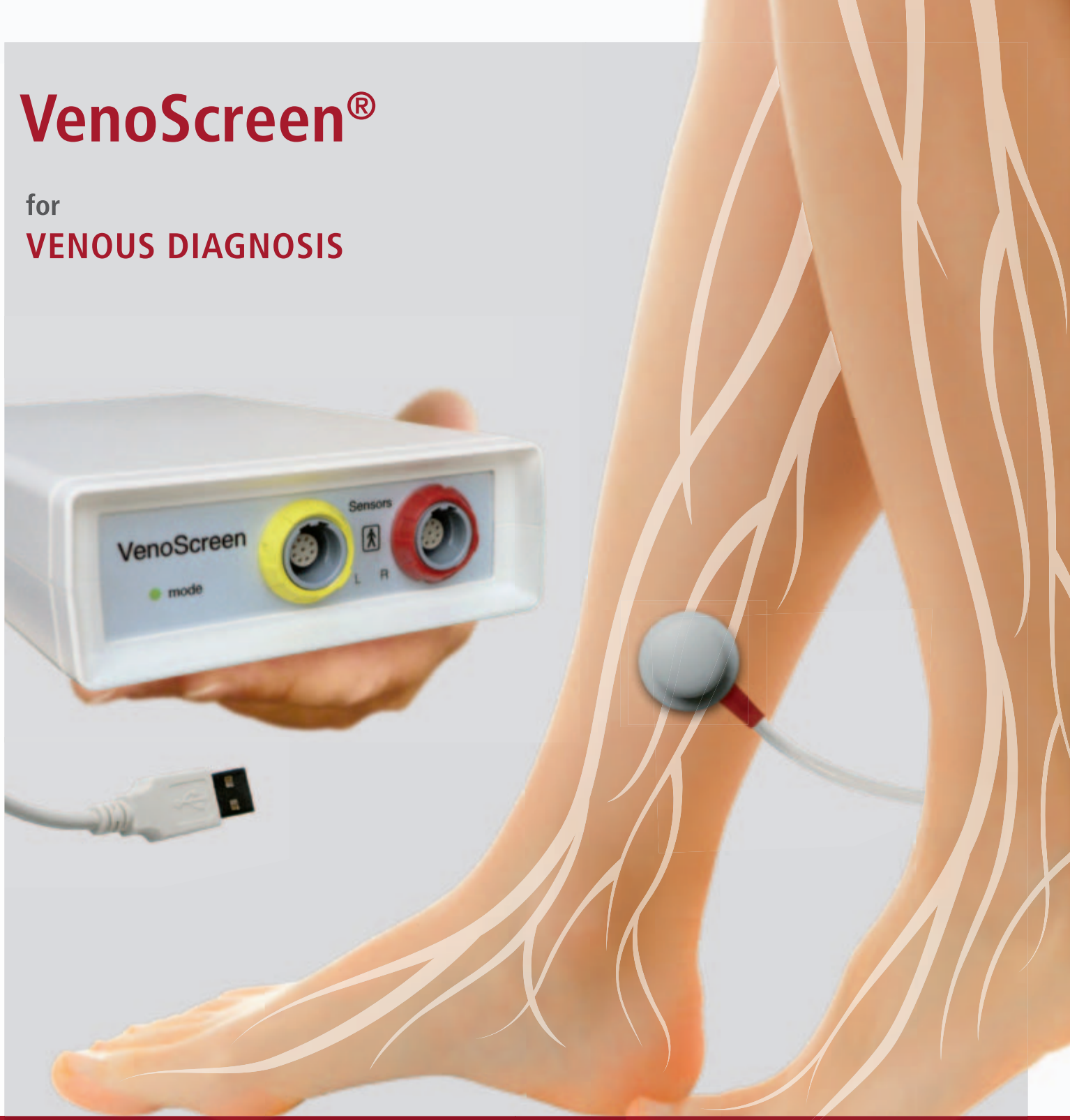
VenoScreen®

for
VENOUS DIAGNOSIS



LIGHT-REFLECTION-RHEOGRAPHY

LRR

2-CHANNEL-SYSTEM

NON-INVASIVE

SELF-CALIBRATING

AUTOMATED

DIGITAL

USB DRIVEN

medis

A SonoSite company

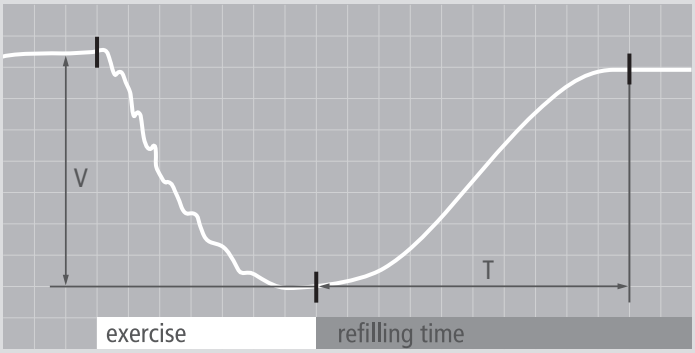
VenoScreen® for VENOUS DIAGNOSIS

MEASURING METHOD

The skin is illuminated by invisible infrared light. Blood absorbs this light much better than other tissue. Therefore, the reflected light, measured by the sensor, directly corresponds to the blood content in the examined skin area.

In case of light-reflection-rheography (LRR) the change of the venous blood in the vessels of the skin is analysed, which directly depends on the venous blood pressure in the larger vessels of the extremity.

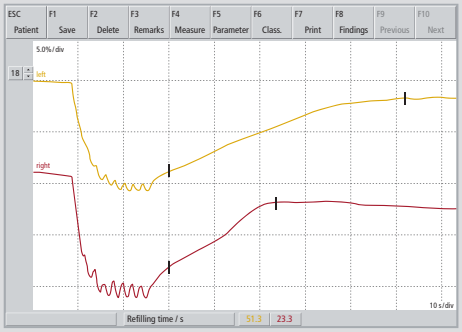
At the beginning of the test the muscle pump empties the veins (Tip-Toe-Test). This process and the following refilling phase are recorded and analysed and allow the diagnosis of venous insufficiencies as well as providing information about the efficiency of the muscle pump.



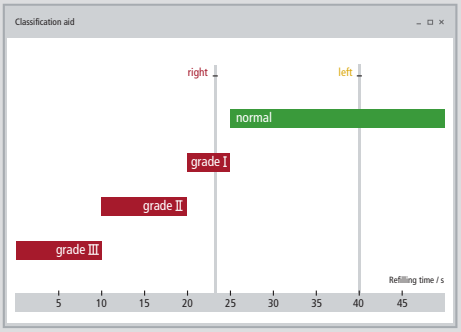
Recording of venous pump volume V and refilling time T

DEVICE CONFIGURATION

The VenoScreen device is USB driven and is for use with a computer on which a Windows software is installed. The VenoScreen software controls the measurement process, automatically evaluates the results and includes a patient data base.



Measurement screen



Evaluation screen

TECHNICAL DATA

Measurement Principle		Photo-Plethysmography (PPG) | Light-Reflection-Rheography (LRR / D-PPG)
Measurement Channels		2 x LRR / D-PPG
Power Supply		via USB port
Dimensions | Weight	w × h × d	100 x 35 x 160 mm / approx. 300 g
Safety	Medical Device Directive	Class II a
	Standards	IEC / EN 601-1 (Class II, Type BF) | IEC / EN 601-1-2 | 4 kV insulated | CE 0197
PC Requirements	Operating System	Windows
	RAM	> 512 MB
	HDD	> 40 GB
	Interface	USB

AUTHORISED DISTRIBUTOR

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