

VenoScreen[®] *plus*

for
VENOUS DIAGNOSIS



**LIGHT-REFLECTION-
RHEOGRAPHY**

LRR

2-CHANNEL-SYSTEM

**READY-TO-USE
NON-INVASIVE
SELF-CALIBRATING
AUTOMATED
DIGITAL**

medis.

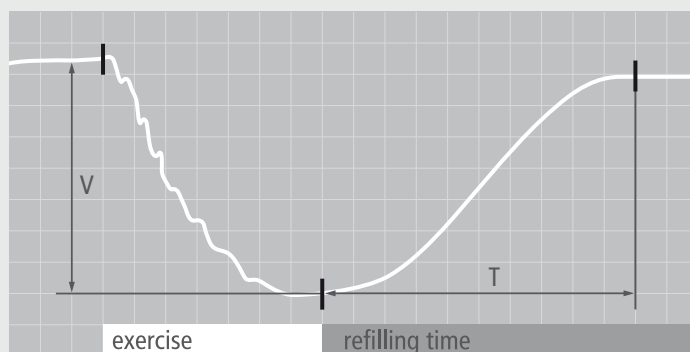
VenoScreen[®] *plus* for VENOUS DIAGNOSIS

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 plus** is a ready-to-use device and consists of the measuring unit with integrated thermo printer and a mobile colour display with touch screen to operate the measuring device and to display the measuring process and the examination results. The device can be operated intuitively and easily.



Exercise



Recording



Results

TECHNICAL DATA

Measurement Principle		Light-Reflection-Rheography (LRR / D-PPG)
Measurement Channels		2 × LRR / D-PPG
Power Supply		100–240 VAC, 50/60 Hz, max. 1.4–0.7 A, medical
Dimensions Weight	w × h × d Weight	21 × 9 × 23 cm 1.5 kg
Control Panel		8" or 10" TFT colour display with touch screen
Safety	Medical Device Directive Standards	Classe II a EN 60 601-1 (Class I, Type BF) EN 60 601-1-2