

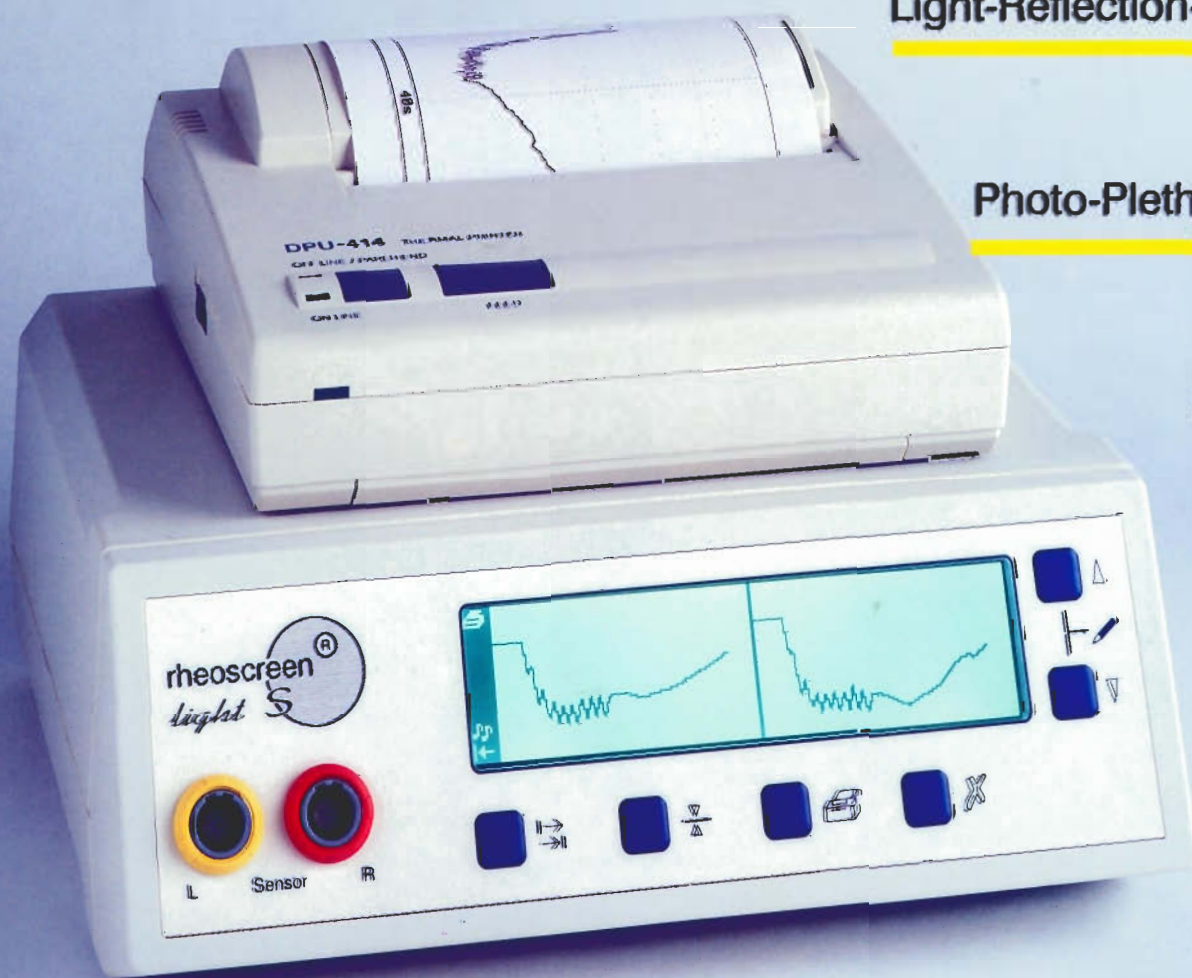
rheoscreen[®] light S

LRR

Light-Reflection-Rheography

PPG

Photo-Plethysmography



non-invasive

digital

compact

simple

**ARTERIAL + VENOUS
VASCULAR DIAGNOSIS**

medis.

Measuring Method

The skin is illuminated by non-visible infrared light. Blood absorbs this light much more than the other tissue. Therefore, the reflected light, measured by the sensor, directly depends on the blood content in the examined skin.

In the case of light-reflection-rheography (LRR) the venous blood content of the skin is analysed. The blood volume in the vessels of the skin directly depends on the venous blood pressure in the larger vessels of the extremity. By means of the muscle pump the veins are emptied. This process and the following refilling phase are analysed and allow the diagnosis of venous insufficiencies as well as provide information about the efficiency of the muscle pump.

Using photo-plethysmography (PPG) the blood pulsation in the arterioles of the skin can be measured. This kind of pulse wave analysis is suitable for diagnosing arterial diseases, in particular, on fingers and toes.



LRR

Tip-toe test for:

- diagnosing venous insufficiencies
- check-up of venous muscle pump

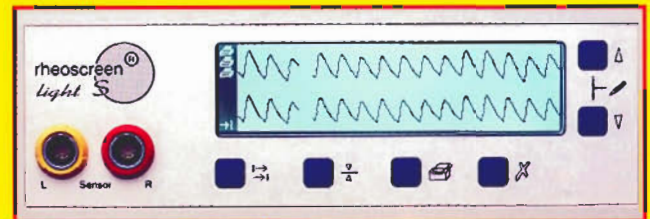
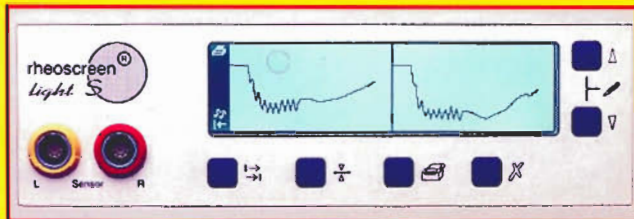
The exercise can be supported by an integrated and adjustable metronome.

PPG

Pulse wave analysis for diagnosing:



- peripheral arterial occlusive diseases
- functional circulatory disturbances



Technical Data

Measuring Method	photo-plethysmography (LRR + PPG), LED 950 nm/infrared; computer-controlled
Meas. Range	LRR: 0 - 10 Hz; PPG: 0,2 - 25 Hz
Display	illuminated display
Print Out	with external printer on thermo paper
Metronome	integrated; adjustable; can be switched off
Mains Supply	230 V +/- 10 % or 115 V +/- 10 % 50 - 60 Hz; < 30 VA
Dimensions, Weight	approx. 230 x 190 x 90 mm (w x d x h); approx. 2,5 kg; insulated
Electrical Safety	MDD class II; insulation class II; type BF; IEC 601-1; VDE 0750-1
Signal - Outputs	2 digital outputs (RS232); opto-electronically decoupled; 4 kV insulation voltage; for connecting a printer, a computer or another rheoscreen [®] device
PC-Connection	for connecting a computer to use the rheoscreen [®] software



Device rheoscreen[®] light (PPG, LRR) for connecting with a computer or in combination with other devices of the rheoscreen[®]-family.

Authorized distributor

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Subject to changes without notice!

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