

<b>VQ1000 D-PPG technical data</b> <small>(technical specifications are subject to change without notice)</small>	
<b>Device</b>	<b>Sensor</b>
<b>Dimensions</b>	<b>Line voltage</b>
190 x 90 x 35 mm (L x W x H)	230 VAC / 50 Hz 110 VAC / 60 Hz optional
<b>Weight</b>	<b>Power dissipation</b>
approx. 740 g	11 VA
<b>Powersupply</b>	<b>Charge voltage</b>
Rechargeable Battery; electronic charging prevents overcharging and deep discharge.	12 V

<b>Tourniquet cuff (optional)</b>	
<b>Width</b>	<b>Length</b>
3 cm	45, 60 and 90 cm, adjustable by Velcro fastener



# vasoquant® 1000 D-PPG

## Quantitative Photoplethysmography

Single channel Photoplethysmograph  
Automatic Calibration  
Automatic Analysis  
Simple Operation  
Patented

# LRR



Are you interested in the VQ1000 D-PPG?  
Call us for further information!  
We would be pleased to tell you more about the VQ1000 D-PPG !

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innovative medical products

**VQ1000 D-PPG** USA

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## VQ1000 D-PPG

In 1981, LRR (light reflection rheography) was developed in Germany as a method to diagnose venous insufficiency. With appropriate wavelengths and well designed radiation geometries, changing amounts of blood in the superficial veins can be recorded.

Changing reflectivity of the skin within the measurement area is evaluated. As a result of the patient's calf muscle contraction, venous bloodflow is increased and the peripheral venous pressure decreases. After the phase of movement a leg refilling phase starts, caused by the arterial blood inflow.

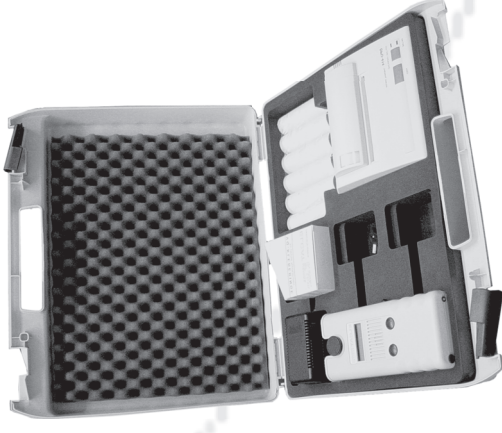
The D-PPG method is a consistent and patented advanced development of the LRR method.



Digital Photo-plethysmography	
ELCAT GmbH (Version 4.35)	
Name	.....
Date of birth	.....
Extremity	: left ... right ...
Date, Time	.....
Diagnosis	.....
Remark	.....
<b>MUSCLE PUMP TEST:</b>	
Sample curve Normal	
<b>Quantitative parameters:</b>	
Venous refilling time	: To > 48 s
Venous pump power	: VO = 5.3 %

### You can use the versatile D-PPG device for

- Measurement of venous function, quantifying venous pump power of the calf muscle
- Differentiation between healthy and pathologic venous states
- Determination of degree of venous insufficiency
- Rapid diagnosis of venous function in high risk patients
- Ability to follow progression of venous pathology
- Evaluation of leg pain with uncertain origin. Assessment of need for surgical or medical intervention



### Everything in one case...

- D-PPG device
- Thermal printer
- Battery charger
- Connection cable (to printer)
- 1 box of adhesive collars; 6 rolls of thermal paper (approx. 500 measurements)
- Manual

An automatic calibration before each measurement ensures the adaptation to different skin structures and skin pigmentations.

The venous pump power (curve amplitude) is now independent from initial blood circulation and becomes reproducible and quantitative recordable.

The D-PPG-device supports the examination with optical and acoustical metronome signals (for the patient's exercises) and ensures a time-saving and error-free examination.

Before each examination the D-PPG runs a self test.

A special sensor head records the blood filling of the cutaneous veins in a depth-optimized way.

Simple handling is ensured by the structured menu-driven operation and an integrated learning program.

Measurement results, menus and the charging status of the battery are shown on the display. Previous examination results are saved automatically.

The integrated sleep function ensures a long-lasting operating time.