
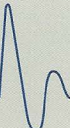


ANGIOLAB 2

PHLEBOLAB

Full Automatic Vascular Diagnostic System



 **SPEAD**
DOPPLER-SYSTEME 

The newly developed **ANGIOLAB 2/PHLEBOLAB** enables the complete diagnostically examination of all blood vessels in vascular diagnosis :

Segmental Pressure with Doppler or PPG, PCR, PVR, PPG, PWV, Stress Test

Venous Test : VRT, MVO

ABI, TBI, Digi test, Raynaud test, Palmar arch test, Thoracic outlet Study

Performs all standard noninvasive arterial and venous studies. For the detection of the following vascular diseases:

ABI / TBI and arterial stenosis

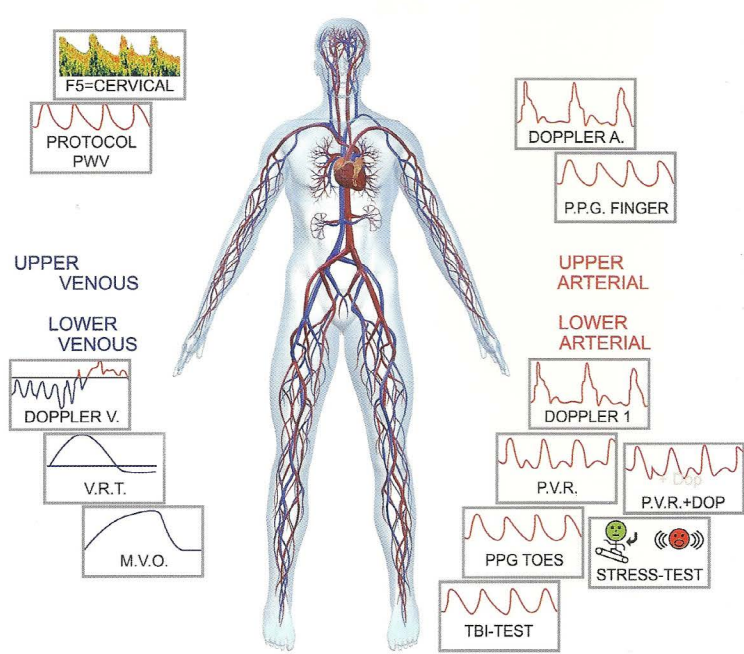
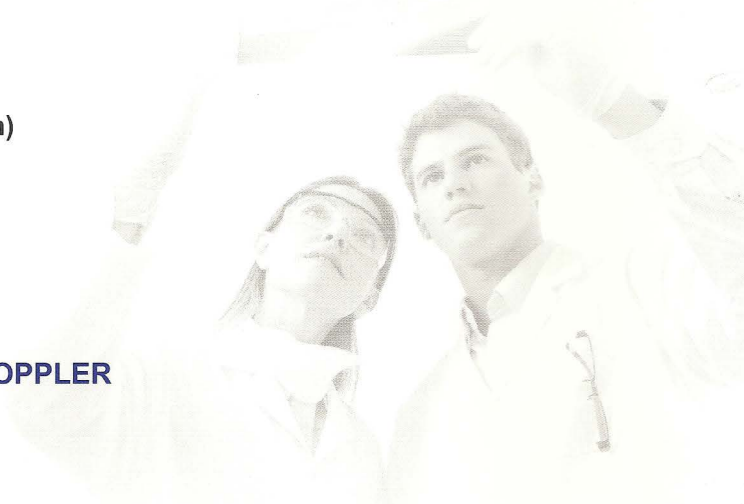
Wave form analysis (side comparaison)

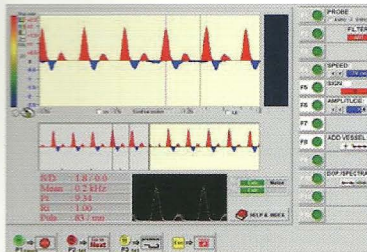
Thrombosis and valve insufficiency

Diabetes, morbus Raynaud,

PHLEBOLAB - ANGIOLAB 2 with DOPPLER

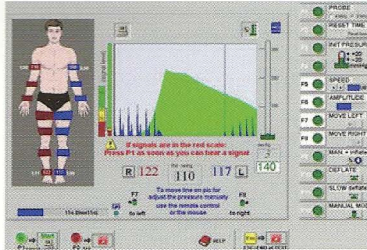
- Bi-Directional CW-Doppler 4- and 8-MHz
- 2-MHz PW-Doppler (option)
- Full automatic Segmental Pressure
- Photoplethysmograph (PPG - VRT)
- Pneumoplethysmograph (PVR - PCR - MVO)
- 10-channel programmable Multi-cuff-Selector
- Multiuser/ Network Software
- Archive for more than 5.000.000 examinations
- User-defined examination protocols
- User-defined pressure settings
- Inflates larger cuffs used in venous tests
- Export functions in BMP, HL7, PDF and Dicom
- For WINDOWS 7 and 8 Systems
- Reduced testing time
- All functions remote controlled
- User customizable Features





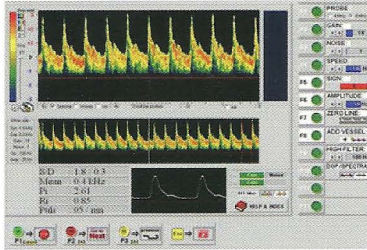
ABI - CW-Doppler of the cervical artery

- Easy to operate
- Live measurement S/D, PI, RI
- Automatic protocol sequence
- Automatic index calculation
- Realtime side-comparison



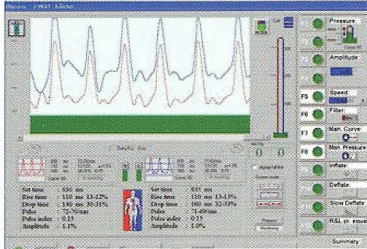
Dynamic segmental pressure

- Cuffs inflate dynamically sensed pressure from 0 to what is needed for the individual patient to avoid uneasy hyperemia. This allows a quick, precise and comfortable measurement.
- Within 6 to 8 seconds the closing pressure is precisely measured, calculated and displayed.



Spectral-Analysis 1024 FFT points

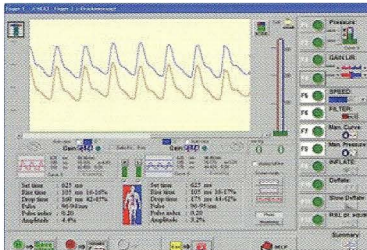
- Automatic gain control
- Live measurement S/D, PI, RI
- Automatic power spectrum
- Scale with 256 colors, 2 color and 2 B/W shades
- Printout on different forms



P. C. R. / P. V. R.

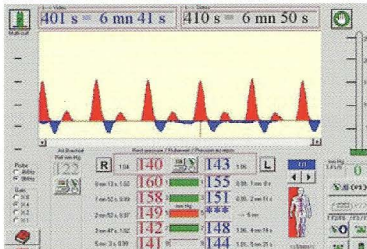
Segmental Pressure and Post-Cuff-Recording

- Full automated operation, Cursor for measuring Indices measurement with occlusion cuff
- Automated hanover of blood pressure values



TBI - P. P. G - Pulse-Photo-Phlethysmography

- Finger/ Toe measurement
- Curve automatic peak-time-calculation
- Automatic cuff inflation and blood pressure measurement



STRESS-TEST with DOPPLER

- Fully automated test sequence with the multicuff-selector
- ABI-calculation references to the brachial artery, rest pressure, multi-reference or booth.
- Printout with graphic, curves and index-table



Ultrasound Image combine

- Optional extention is available
- Easy to test Aorta or other blood vessele

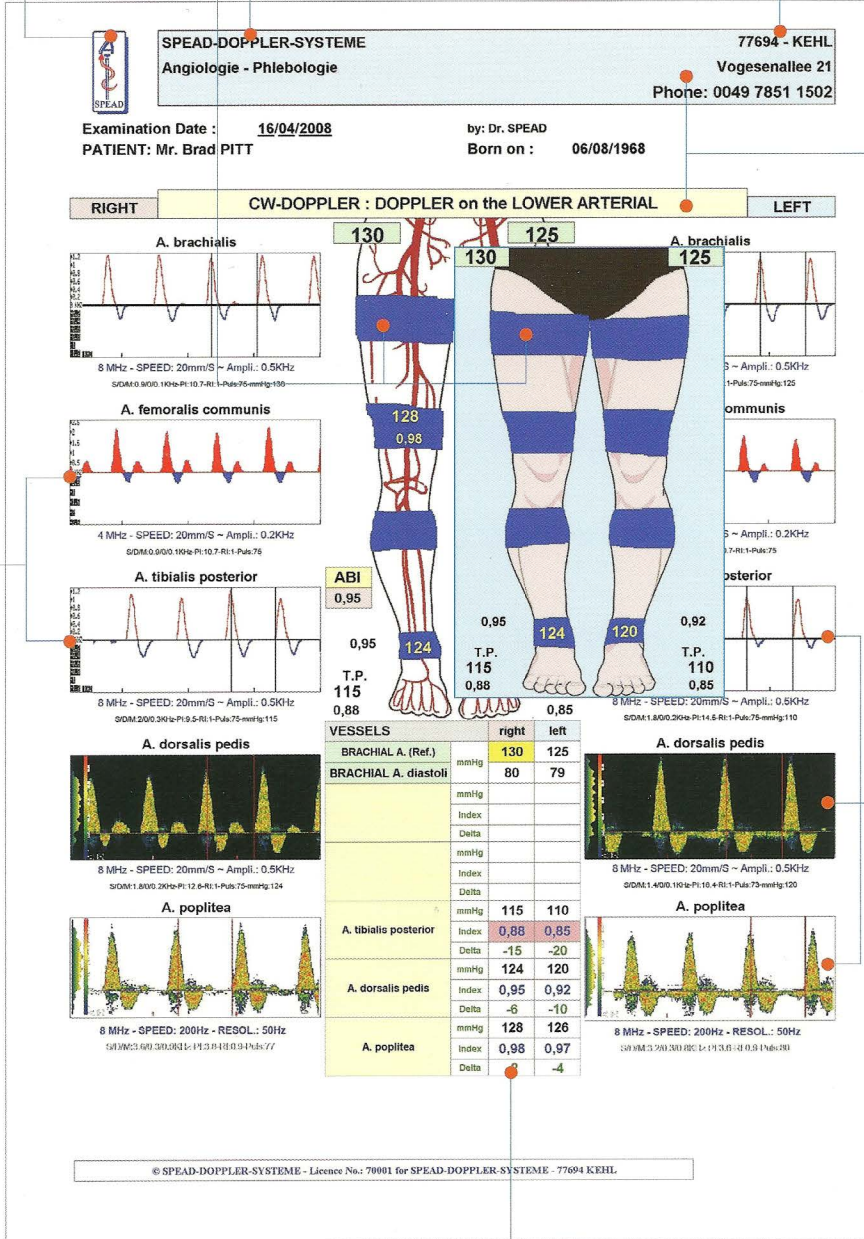
Individual Settings

Here you can add a logo

You can choose 2 different kinds of graphics

Letterhead of hospital / practice

Background colors can be changed into blue, red, green, yellow or white



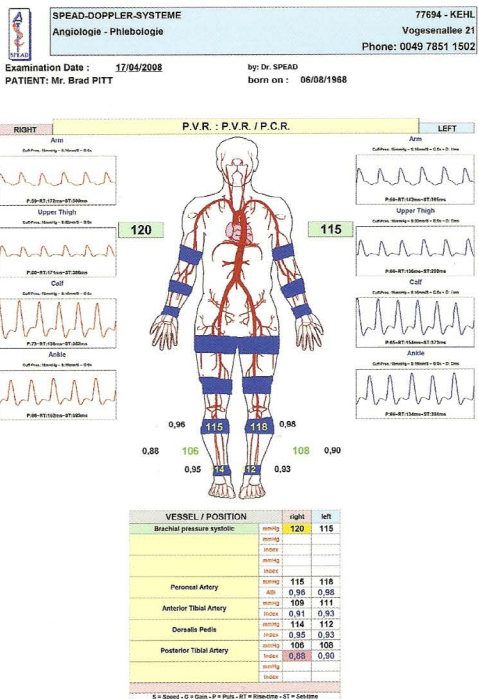
You can choose filled curve or line curve

Automatical index calculation
Pathological values are displayed with a red background for a faster diagnosis

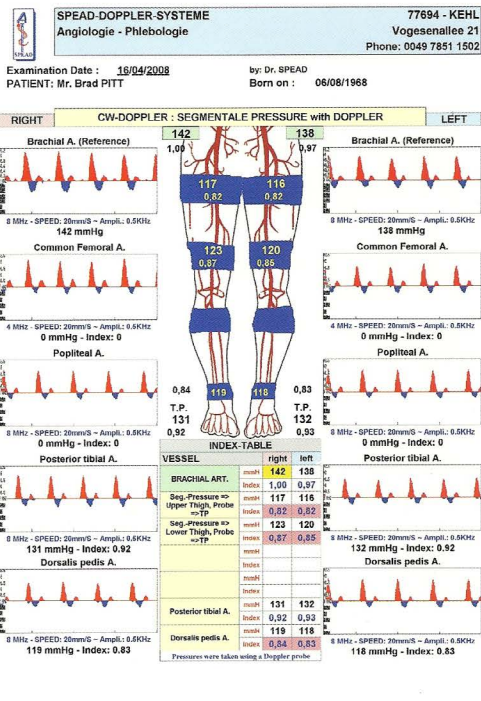
It is possible to choose Doppler or Spectral-curves or both in one protocol
The protocol is the course of the examination

Sample of printouts

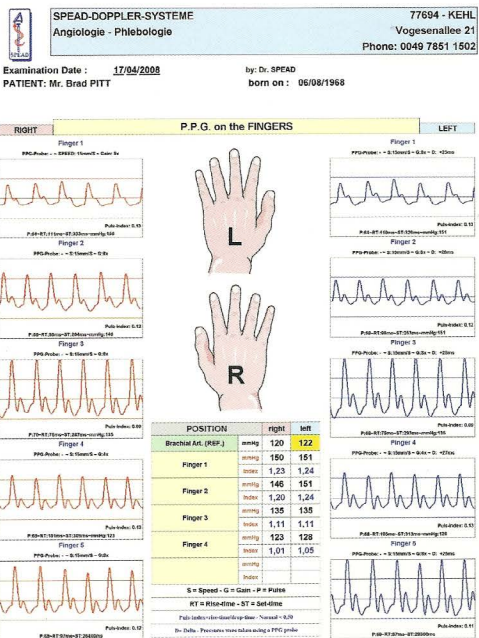
Pulse Volume Recording



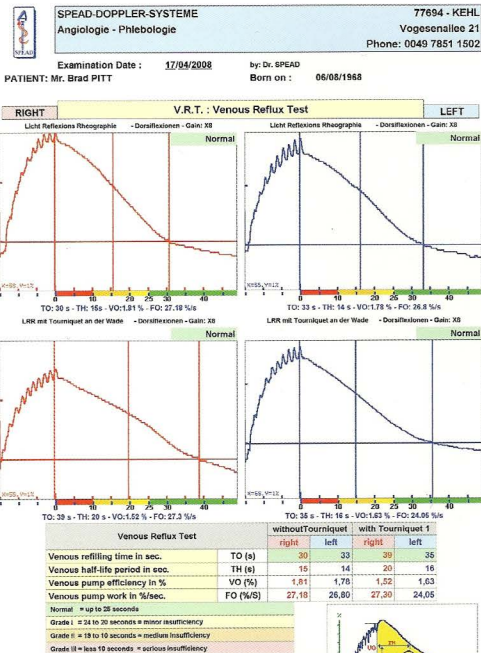
Doppler on the lower Arterial



PPG on the Fingers



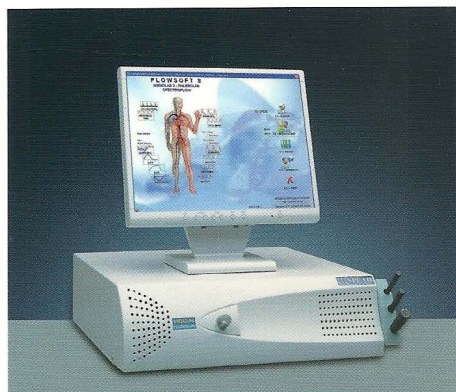
Venous reflux test



Technical Data

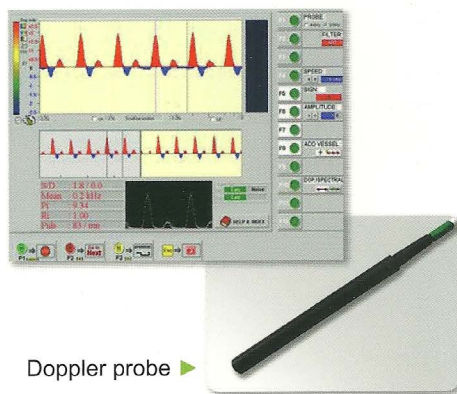
ANGIOLAB 2® - PHLEBOLAB®

SUPPLY VOLTAGE	: 110/240 Volt, 50/60 Hz, AC stand-by 25 W
AMPLITUDES	: From 1/1 to 32 / 1 times +/- 1%
FILTER	: Arteries 2x, veins and mean
PUMP	: 2 pumps - 11 liter per minute each
VALVES	: Electronic valves with security drain
TRANSDUCER	: From 0 to 310 mmHg +/- 1%
METHODS OF MEASUREMENT	
M.V.O. / R.H.T. / P.V.R.	: Pneumatic measuring and occlusion cuffs
M.V.O. / R.H.T.	: Strain-Gauge with Mercury or Gallium/Idium
V.R.T. / P.P.G.	: Infrared-light sensors
DIMENSIONS	: 440 x 130 x 480 mm, 10 kg



DOPPLER-Module = DOPFLOW®

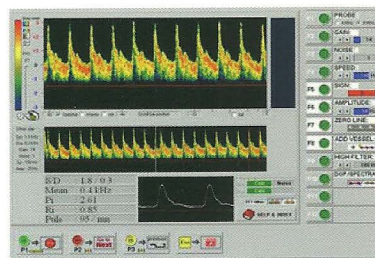
FREQUENCY	: 80 mW/cm2 at 8 MHz 40 mW/cm2 at 4 MHz 20 mW/cm2 at 2 MHz(option)
FILTER	: Arteries 2x, veins and mean
OPERATION MODE	: Full range measurement according to the Convent Continuous Wave Technology
(CW)	
PRINTOUT	: PC-printer, paper size A4 or letter
AMPLITUDES	: 0,5 - 1 - 2 - 4 KHZ at 4 MHz per step 1 - 2 - 4 - 8 KHZ at 4 MHz per step
ZERO LINE	: Continuous
ACOUSTIC	: Stereophonic 2 x 4 Watt, separation of Forward and reverse flows with 40 dB



Doppler probe ►

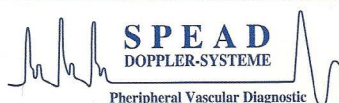
SPECTRUM-Module = SPECTROFLOW®

DISPLAY	: Colour monitor in 256 colour- or grey-shades realtime FFT analysis, 1024 spectra/ 512 frequencies, auto-gain, noise filter		
RESOLUTION	: shade	range	resolution
		0,25-1,5 KHz	25 HZ
		0,5 - 3 KHz	50 HZ
		1 - 6 KHz	100 HZ
		1 - 12 KHz	200 HZ
HISTOGRAM	: power spectrum is calculated automatically		
CURSOR	: 3, automatic and adjustable		
MEASUREMENT	: online, systole, diastole, mean, PI, RI		



WARRANTY : 2 years, except for probes, electrodes, cuffs and accessory

CE ISO 13485 CERTIFIED



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