

PERIPHERAL VASCULAR DIAGNOSIS

# BASIC

VASCULAR DOPPLER  
PHOTO-PLETHYSMOGRAPHY  
PULSE VOLUME RECORDING  
ANKLE AND TOE BRACHIAL INDEX

- Angiologist
- Phlebologist
- Cardiologist
- Diabetologist



The newest technology  
in a space-saving design

Ideal for clinics  
or hospitals

## APPLICATIONS

Peripheral arterial disease  
diagnosis  
Leg ulcer assessment  
Diabetic foot screening  
Venous assessment

CE  
0459

 **Atys**  
medical

# BASIC

Atys has been a leading manufacturer of vascular assessment and diagnostic equipment for more than 25 years. It is renowned for designing innovative world beating products that fit the purpose and budget of busy clinicians. All our products are designed to achieve a balance of simplicity, ease of use and flexibility.

The six BASIC devices range from vascular Doppler or photo-plethysmograph (PPG) to comprehensive systems incorporating all standard physiological measurements to diagnose peripheral arterial disease (PAD).

FEATURES	BASIC L	BASIC 1	BASIC 2	BASIC 3.1	BASIC 3.2	BASIC 3.4
4 & 8 MHz Doppler		✓	✓	✓	✓	✓
Bilateral Venous Reflux Test (VRT)	✓		✓	✓	✓	✓
Bilateral PPG	✓		✓	✓	✓	✓
Bilateral PVR					✓	✓
Doppler pressure				✓	✓	✓
Simultaneous PPG pressures					2	4
Doppler ABI				✓	✓	✓
PPG ABI					2	4
PPG TBI					2	4
PWV (Option)					2	4

PPG = PhotoPlethysmoGraphy, PVR = Pulse Volume recording, PWV = Pulse Wave Velocity.  
In the above table, the numbers are the numbers of channels.

The small size of the BASIC makes it well adjusted for measurements by bedside, physician office, mobile service or anywhere space is at a premium.

## PORTABILITY, MOBILITY

BASIC1, BASIC 2 and BASIC 3.1 are portable devices. As all the BASIC units, they are powered by the mains supply. They can also operate on an internal rechargeable battery and be fitted with a comfortable handle for optimized portability.

The BASIC can be placed on an easily movable and ergonomic support.

Two supports are available: Trolley I and Trolley Z.

The trolleys are positioned precisely where they are needed and without effort.

Trolley Z is especially recommended for BASIC 3.2 and BASIC 3.4. It offers facilities for the storage of the cuffs, sensors and probes.

When not used, the cuffs can be placed on the "handle" shape dedicated storages.



Trolley I

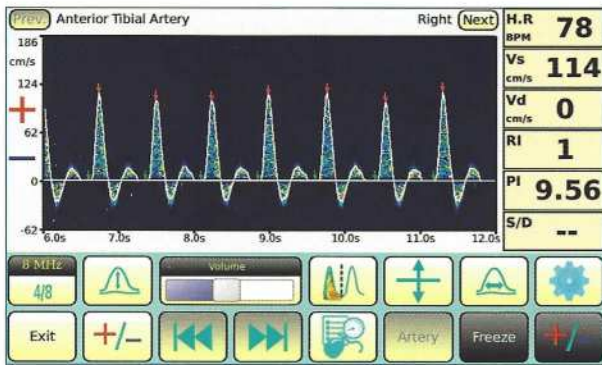


Trolley Z

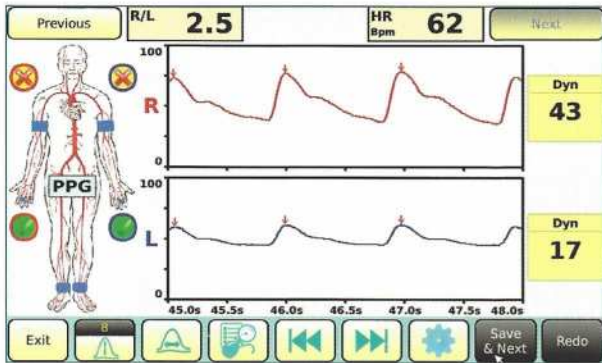
# BASIC

## Taking your Doppler device one step further

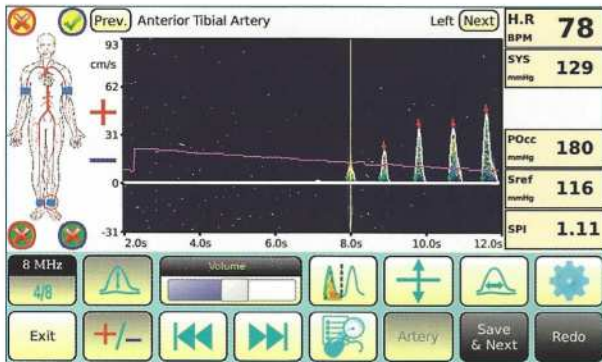
All the functions are fully integrated in the BASIC



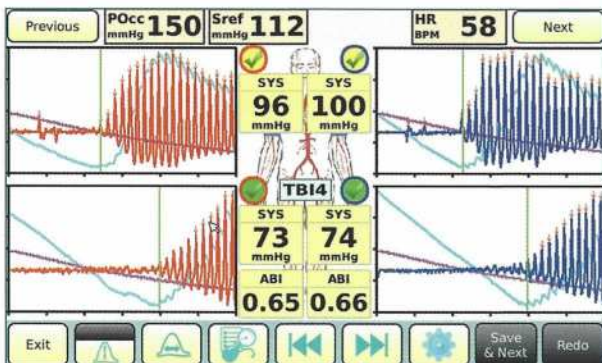
Doppler



Bilateral photo-plethysmography



Automatic Doppler systolic pressure measurement



TBI measurement

### DOPPLER

- 4 MHz & 8 MHz continuous Doppler
- Bidirectional Doppler
- Arterial & venous Doppler
- **Real-time colour spectral analysis**  
Our colour spectral analysis is a standard feature and provides enhanced ability to demonstrate arterial and venous flow clearly and accurately.
- Doppler spectrum: 256 colours, 256 point FFT
- Audio output:
  - Two built-in loud speakers
  - **Stereo**, separated reverse and forward flows
  - Headphone socket
- Six indices displayed in real time (Vs, Vd, Vm, Hr, RI, PI, S/D)
- Display of the curve or spectrum

### PHOTO-PLETHYSMOGRAPHY

- Ultrasensitive PPG sensors
- Bilateral recording of the arterial waveform from the digits
- Bilateral diagnosis of venous insufficiency (option)

### SYSTOLIC PRESSURE

#### BASIC 1 & BASIC 2

BASIC 1 and BASIC 2 can be used with a sphygmomanometer to measure manually Doppler systolic pressures. The manually measured pressure values can be input in the BASIC in order to have them as well as the ABI's printed out in the examination report.

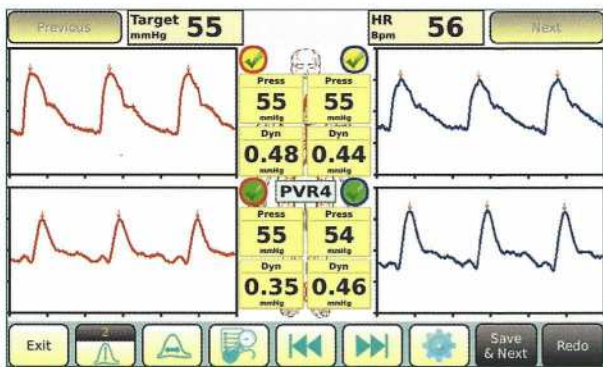
#### BASIC 3.1, BASIC 3.2 & BASIC 3.4

- Measurement with the aid of Doppler
- Measurement with the aid of PPG (3.2, 3.4)
- Embedded pump and electro-valves
- Automatic inflation and deflation of the cuffs
- The returning pulse is marked automatically
- With PPG, both DC and AC signals are displayed for an easier and more accurate measurement
- Automatic measurement
- The measured pressures remain adjustable
- Automatic calculation of ABI with the aid of Doppler or PPG
- Automatic calculation of TBI with the aid of PPG (3.2 and 3.4)

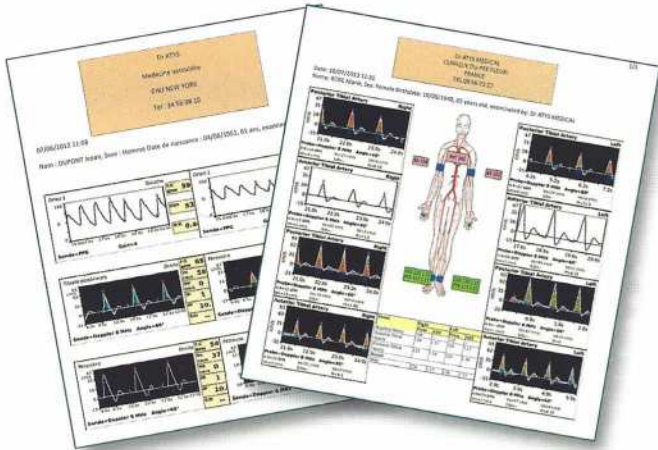
BASIC 3.2 and BASIC 3.4 have the ability to measure at the same time with the aid of PPG sensors up to 2 and 4 blood pressures respectively.

This allows rapid calculation of ABI and TBI. Besides, the simultaneous measurement of four pressures eliminates the effect of the systemic pressure changes that can occur during the examination when the pressures are measured one after the other.

The number of pressure channels is the only difference between BASIC 3.2 and BASIC 3.4. Two and four cuffs can be simultaneously connected to the BASIC 3.2 and BASIC 3.4 respectively. One cuff can be connected to BASIC 3.1. The air tubes are colour coded.



Pulse volume recording



BASIC L, 1, 2 & 3.1



BASIC 3.2 & 3.4

# BASIC

## PULSE VOLUME RECORDING

- The BASIC 3.2 has the ability to record simultaneous two waveforms
- The BASIC 3.4 has the ability to record simultaneous four waveforms

## PULSE WAVE VELOCITY (PWV) (OPTION)

- In an arterial segment
- In aorta
- Assessed from the PVR time delay in at least two cuffs

## USER INTERFACE

- 7" WVGA touch screen (TFT colour)
- Foot switch pedal

## RESSOURCES

- **Embedded PC**
- Configurable protocols
- Any test combination
- Possible review at any time during the examination of all acquired waveforms and pressures
- Display of the summary screen
- Internal storage of 50 examination reports
- Configurable reports
- **Direct and high-quality printing of full-page colour reports**
- **Export of the examination reports (ODT, PDF)**
- Vessel labelling
- Patient data input
- Export of the Doppler, PPG and pressure curves in CSV (Excel)
- PC connection: examination report transfer
- Network: shared network directory

## GENERAL

Dimensions and weight (without trolley)

- BASIC L, 1, 2: 23 x 16 x 12 cm, 1.2 kg
- BASIC 3.1: 23 x 16 x 12 cm, 1.5 kg
- BASIC 3.2: 23 x 17 x 17 cm, 2.2 kg
- BASIC 3.4: 23 x 17 x 17 cm, 2.5 kg

Power: 100V-240V, 50-60 Hz

Internal rechargeable battery (option for BASIC L, 1, 2 & 3.1)

## PERIPHERAL VASCULAR SUPPLIES

- Latex-free cuffs
- Leg/arm cuffs
- Digit cuffs
- 4 and 8 MHz CW Doppler probes
- PPG sensors



**Neuro Medical**  
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**StayAtys**



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