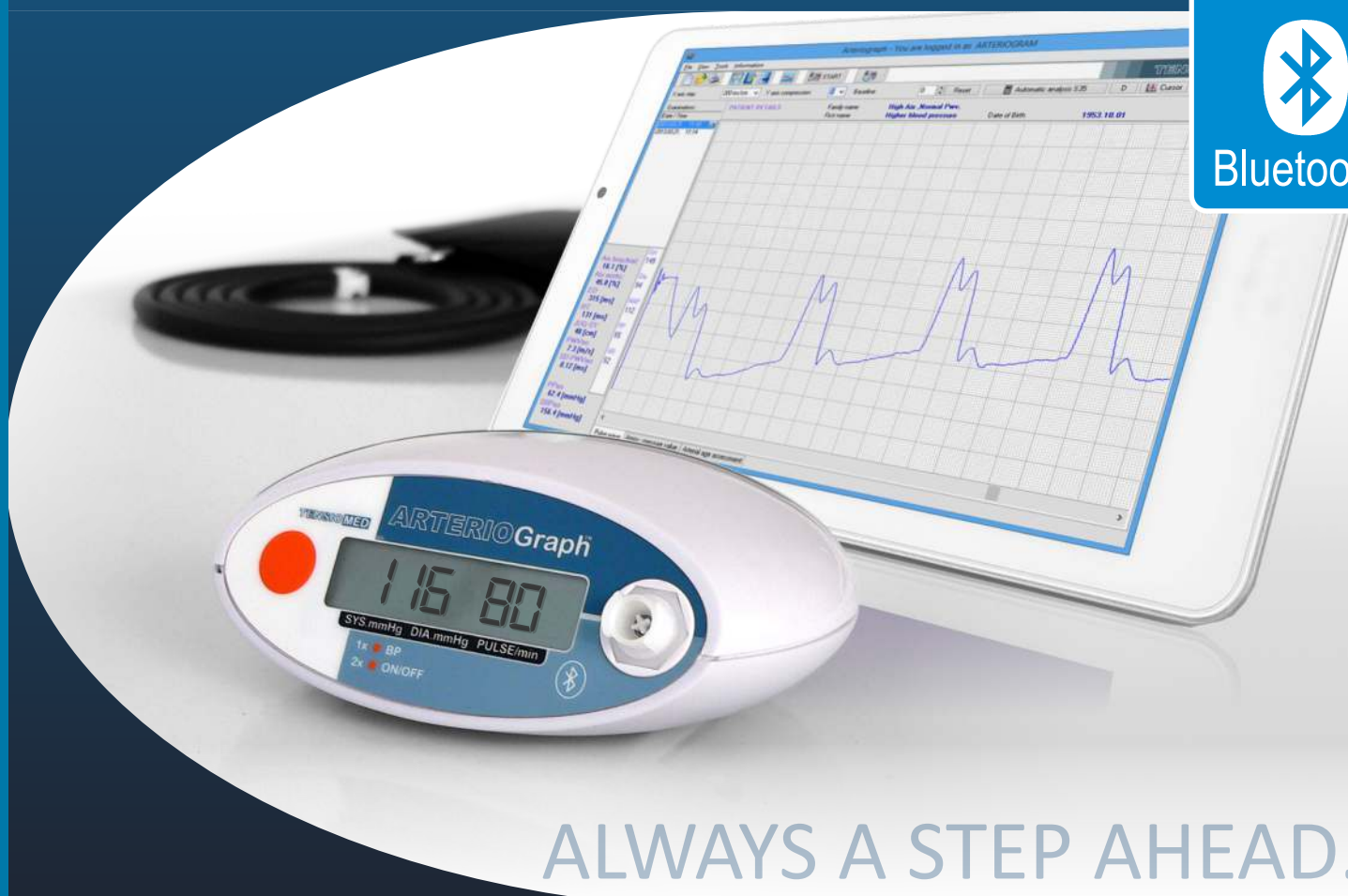


# TensioMed Arteriograph™

The Gold Standard Technology  
in Oscillometric Arterial Stiffness Measurement



Bluetooth™



ALWAYS A STEP AHEAD...



The complex arterial function (stiffness) measurement with Arteriograph™ is as simple as an upper arm blood pressure measurement.

This innovative device measures all the relevant arterial function parameters such as aortic pulse wave velocity (PWV<sub>ao</sub>), augmentation index (Aix) and central blood pressure (SBP<sub>ao</sub>) values **simultaneously** with the peripheral blood pressure. Arteriograph™ provides an easy, fast, accurate and user-independent method for assessing vascular age.



**TENSIOMED**®  
ORIGINAL EXCELLENCE

## Measured parameters:

- Peripheral (brachial) blood pressure (SBP, DBP, MAP, PP, HR)
- Central blood pressure (SBPao, PPao)
- Augmentation index (Aix aortic, Aix brachial)
- Aortic Pulse Wave Velocity (PWVao)
- Return time of aortic pulse wave (RTao)
- Left ventricle ejection duration (ED)
- Systolic area index (SAI)
- Diastolic area index (DAI)
- Diastolic reflection area (DRA)
- Ankle – Brachial index (ABI)

With use of a simple, upper-arm cuff, the device is capable of recording central hemodynamic changes. By inflating the cuff to suprasystolic pressure the brachial artery becomes occluded. This leads to the major advantage of the system: the brachial flow is stopped, therefore the brachial wall characteristics are excluded (no significant wall movement), consequently the gained information relate to the systematic circulation. For calculating arterial function parameters the recorded pulse waveform is analyzed and the characteristic points of the first and reflected waves are determined. The true aortic length is

estimated with the jugulum-symphysis distance (Jug-Sy), by which the calculation of PWVao is enabled.



### EASY

as an oscillometric blood pressure measurement.

### FAST

as it takes only 3 minutes (including patient data input).

### USER INDEPENDENT

as it is fully automatic; the user only has to start the measurement.

### EXCELLENT REPRODUCIBILITY

as it proved to be the lowest among non-invasive

### LOW VARIANCE

as it proved to be the lowest among non-invasive arterial function assessing methods.

### OUTSTANDING COST-BENEFIT RATIO

among clinically accepted devices.

### VALIDATED

to invasive and non-invasive measurements.

#### Specifications

Power supply	Four AA long-life alkaline batteries	Blood pressure measuring method	Oscillometric
Protection against electric shock	Internal supply by batteries	Sampling frequency	200Hz
Grade of protection against electric shock	BF type on patient's side	Blood pressure measuring limits	30 – 280mmHg
Display	Liquid Crystal Display (LCD)	Static accuracy	± 3mmHg or ± 2% of the measured value (Stability: 2 years)
Data storage	EEPROM	Pressure sensor	Piezo-resistive
Data transmission	Bluetooth v2.0s	Inflation	Automatic motor-driven pump
Ambient temperature	10 – 40 °C	Safety	Maximum cuff pressure: 280mmHg
Dimensions	116.0 x 94.0 x 47.0mm	Deflation	Stepwise
Weight	250g (including batteries)		

Specifications subject to change without prior notice. Refer to the TensioMed Arteriograph™ user's manual for complete description, instructions, warnings cautions and specifications.



Litra - ARTERIOGRAPH.nl  
Tel: +31-(0) 6-51 817280  
email: info@arteriograph.nl web: www.arteriograph.nl



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