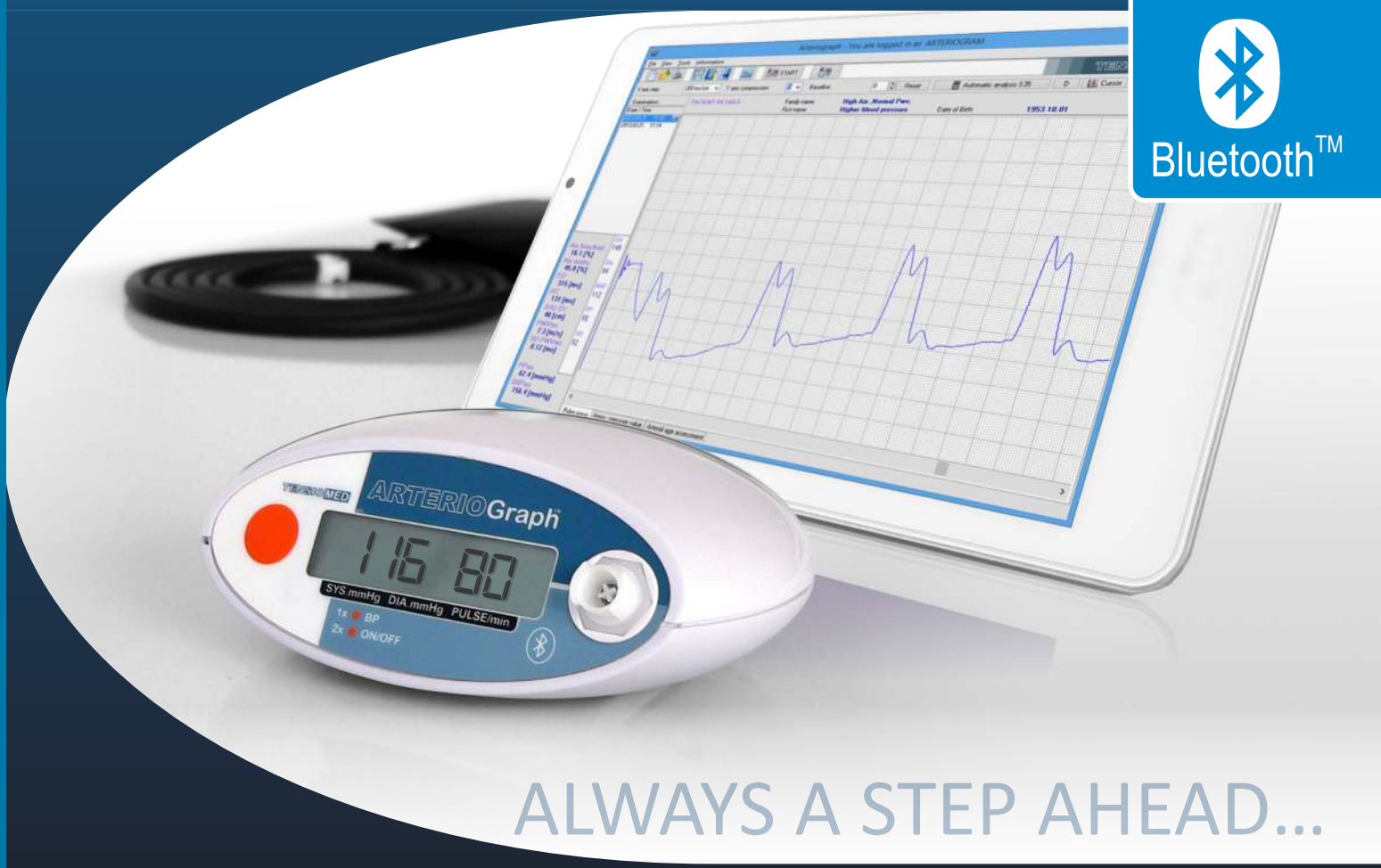
TensioMed Arteriograph™

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 (**PWVao**), augmentation index (**Aix**) and central blood pressure (**SBPao**) values **simultaneously** with the peripheral blood pressure. Arteriograph™ provides an easy, fast, accurate and user-independent method for assessing vascular age.

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www.arteriograph.nl

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
Protection against electric shock	Internal supply by batteries
Grade of protection against electric shock	BF type on patient's side
Display	Liquid Crystal Display (LCD)
Data storage	EEPROM
Data transmission	Bluetooth v2.0s
Ambient temperature	10 – 40 °C
Dimensions	116.0 x 94.0 x 47.0mm
Weight	250g (including batteries)

Blood pressure measuring method	Oscillometric
Sampling frequency	200Hz
Blood pressure measuring limits	30 – 280mmHg
Static accuracy	± 3mmHg or ±2% of the measured value (Stability: 2 years)
Pressure sensor	Piezo-resistive
Inflation	Automatic motor-driven pump
Safety	Maximum cuff pressure: 280mmHg
Deflation	Stepwise

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

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Litra - ARTERIOGRAPH.nl -- Leidsekade 62A, 1016CZ AMSTERDAM(NL)
Tel: +31-(0)20-770 5208 of +31-(0) 6-51 817280
email: info@arteriograph.nl web: www.arteriograph.nl

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