

Arteriosclerosis Detector

Portable Arteriosclerosis Detector



Product Introduction

The Arteriosclerosis Detector is a device with complete Independent Intellectual property rights for detecting the degree of artery stiffness and occlusion. This instrument uses synchronous pressurization to measure non-invasive blood pressure in the limbs, while real-time recording and analyzing arterial pulse wave waveforms in the limbs. It uses waveform analysis technology to extract characteristic information that represents vascular elasticity, calculates multiple indexes including ankle brachial index (ABI), brachial-ankle pulse wave velocity (baPWV), etc., and automatically analyzes and comprehensively evaluates the health status of the cardiovascular system and the degree of arterial occlusion in the lower limbs through database data, providing comprehensive and objective reference for early diagnosis of arteriosclerosis and early screening of cardiovascular and cerebrovascular diseases.

Scope of application: Suitable for cardiovascular and cerebrovascular medicine, geriatrics, physical examination centers, etc., and used to detect and evaluate lower limb vascular occlusion and vascular elasticity of subjects.

Technical Parameter

① Blood pressure measurement method: blood pressure measurement using the oscillography;	Blood pressure measurement range: (0-260) mmHg;
② Measurement location: limbs (ankles, brachial arms);	② Pulse rate measurement range:(40-199) BPM;
Pressurization method: synchronized pressurization of limbs;	① Number of blood pressure cuff uses: 8000 inflation and deflation cycles;
① Blood pressure module: Sensor accuracy: the measurement range ± 3 mmHg under normal working environment;	Database: A global racial database able to measure populations up to the age of 100;
① Number of blood pressure modules: 4 (Independent working blood pressure pump);	② Product dimensions: 37cmx40cmx10cm;product weight 6.1Kg;
Measurement accuracy: $\leq \pm 0.4$ kPa (± 3 mmHg) ;	Main measurement parameters: baPWV (pulse wave velocity), ABI (ankle/brachial index), BAI (brachial ankle Index), HR (heart rate), PVR (pulse volume recording)
Repeatability: ≤ 0.533 kPa (4mmHg);	