The gold standard in noninvasive central blood pressure assessment

SphygmoCor technology is the gold standard for noninvasive measurement of central blood pressure. It has been featured in hundreds of published studies, and is used in leading medical centers and in pharmaceutical clinical trials worldwide.

The SphygmoCor CP system acquires the patient’s radial pulse waveform through a measurement taken at the wrist, derives the blood pressure waveform at the ascending aorta and reports vital central blood pressure data.

Offering

- Ascending Aortic Blood Pressure
- Aortic Augmentation Index
- Aortic Pulse Pressure
- Ejection Duration
- Automatic, Instant Quality Assurance Feedback

Central pressure has been proven to be a superior, independent predictor of cardiovascular events. SphygmoCor systems allow assessment of drug effects that cannot be detected with brachial blood pressure measurements, and provide patients with visual evidence of the effects of lifestyle changes and drug therapies.
# System Specifications

## SphygmoCor® CP System

### PC Interface Specifications

**SPECIFICATION**

- IBM compatible PC or notebook computer with:
  - Pentium Processor P4 or greater
  - 1 GB RAM
  - 1024 x 768 256-colour XGA display
  - 60GB initial free hard disc space
  - CD-ROM drive
  - Windows standard printer drivers
  - Dedicated USB port
  - Windows XP Pro or Business Pro only
  - Vista Business or Vista Ultimate only
  - The SphygmoCor® EM3 is not supported on Windows NT/95/98/ME.

**Interface**

- USB 1.1 serial interface
- USB Type B Female connector

### Regulatory

- FDA clearance
- EU CE Mark (MDD, ANNEX II, Class IIa)
- MHLW, Japan
- TGA, Australia
- IEC 60601-1/ AS/NZS 3200.1 (amendments 1 and 2) Electromedical Equipment Safety standard
- IEC 60601-1-2 Electro-Medical Equipment, Electro-Medical Compliance (EMC) Standard

### Input Signal Specifications

**INPUT**

**SPECIFICATION**

- **Tonometer**
  - **Diffused semiconductor wheatstone bridge sensor**
  - **Sensitivity** 5 µV/V/mmHg
  - **Contact Pressure Range** 0 – 300 mmHg
  - **Calibration** Calibrate with sphygmomanometer
  - **Reference Pressure** Atmosphere
  - **Bandwidth** DC – 40 Hz
  - **Sampling Rate** 128 Hz
  - **Gain & Offset Adjust** Auto
  - **Signal Range, Accuracy** 10mV, ±5%

- **ECG**
  - **Type** 3-Lead (Lead II)
  - **Bandwidth** 0.67 – 40 Hz (Device does not support extended low frequency response)
  - **Sampling Rate** PWV: 128 Hz, HRV: 1024 Hz
  - **Gain & Offset Adjust** Auto
  - **Signal Range, Accuracy** ±5mV, ±20%
  - **Heart Rate Range** 30 BPM to 200 BPM
  - **Heart Rate Accuracy** ±10 %

- **Footswitch**
  - **Type** Micro-switch
  - **IP Rating** IPX8-1.0m