

# The SphygmoCor® CP System

## The gold standard in noninvasive central blood pressure assessment

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

The SphygmoCor CP system acquires the patient's radial pulse waveform noninvasively by applanation tonometry, derives the pressure waveform of the ascending aorta and reports vital central blood pressure data.



## Features

Instantaneous calculation of key parameters, including

- **Central Pressure Waveform**
- **Aortic Pulse Pressure**
- **Aortic Systolic Pressure**
- **Aortic Augmentation Index**
- **Ejection Duration**

Automatic, real-time QA feedback leading to minimal operator variability

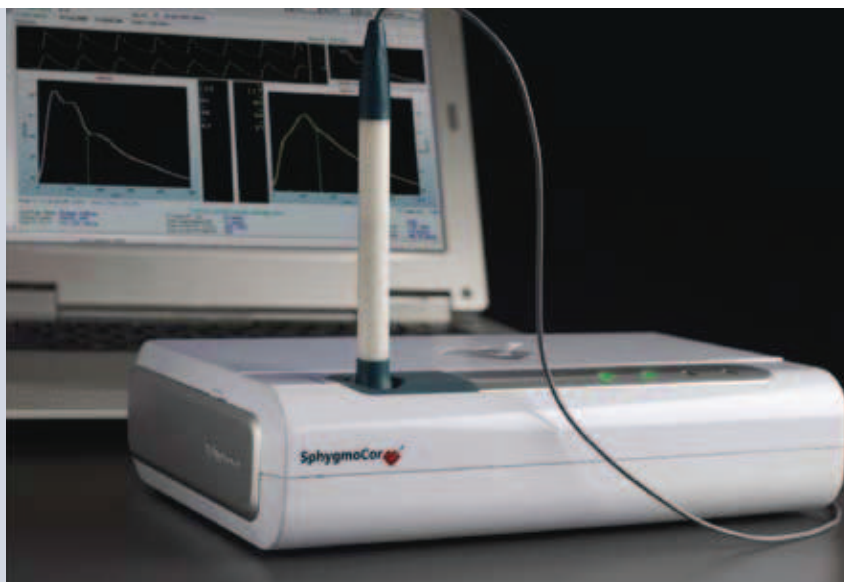
Noninvasive test, comfortable for patients, no disposables needed

## Benefits

- Central pressure has been shown to be a superior, independent predictor of future cardiovascular events than peripheral pressure
- Allows assessment of drug effects that cannot be detected with brachial pressure measurements
- Provides patients with visual evidence of the effects of lifestyle changes and drug therapies

# System Specifications

## SphygmoCor® CP System



### SYSTEM SPECIFICATION

#### Product Configuration

PRODUCT	INPUTS
CvMS-CP	Tonometer

#### Physical and Environmental Specifications

Operating Ambient temperature	+15°C to 30°C (59°F to 86°F)	
Operating Relative humidity	20% to 80%	
Power supply (USB powered)	Supply Voltage	USB +5VDC
	Power Consumption	500 mA max
	Protective Class	IEC Class I, II or Internally powered (depends on Computer that module is connected to)
	Applied Parts	Type CF (ECG) Type BF (Tonometer)
	Power Connector	Via USB Type A Connector
Physical Specifications	Enclosure Material	PC-ABS
	Weight (Module & Tonometer)	0.8 kg (1.8 lbs)
	Dimensions	16.0 (l) x 26.4 (w) x 5.8 (h) cm 6.2" (l) x 10.4" (w) x 2.3" (h)

#### Input Signal Specifications

INPUT	SPECIFICATION	
Tonometer	Diffused semiconductor whetstone bridge sensor	
	Sensitivity	5 $\mu$ V/V/mmHg
	Contact Pressure Range	0 – 300 mmHg
	Calibration	Un-calibrated (calibrate manually with sphygmomanometer)
	Reference Pressure	Atmosphere
	Bandwidth	DC – 40 Hz
	Sampling Rate	128 Hz
	Gain & Offset Adjust	Auto
Signal Range, Accuracy	10mV, $\pm$ 5%	
Footswitch	Type	Micro-switch
	IP Rating	IPX8-1.0m

#### PC Interface Specifications

##### SPECIFICATION

Minimum Computer Requirements	IBM compatible PC or notebook computer with: <ul style="list-style-type: none"> <li>• Pentium Processor P4 or greater</li> <li>• 1 GB RAM</li> <li>• 1024 x 768 256-colour XGA display</li> <li>• 60GB initial free hard disc space</li> <li>• CD-ROM drive</li> <li>• Windows standard printer drivers</li> <li>• Dedicated USB port</li> <li>• Windows XP Pro, XP Business Vista Business or Vista Ultimate only</li> <li>• The SphygmoCor® EM3 is not supported on Windows NT/95/98/ME.</li> </ul>
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Unication Interface	USB serial interface USB Type B Female connector
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#### 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 Magnetic Compliance (EMC) Standard

