



The SphygmoCor® CPV System

The gold standard in noninvasive central blood pressure and pulse wave velocity assessment

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

SphygmoCor systems acquire the patient's radial pulse wave form through a measurement taken at the wrist, derive the blood pressure wave form at the ascending aorta and report vital central blood pressure data.

The SphygmoCor CPV system also measures pulse wave velocity between two arterial locations.



Features

Instantaneous calculation of key parameters, including

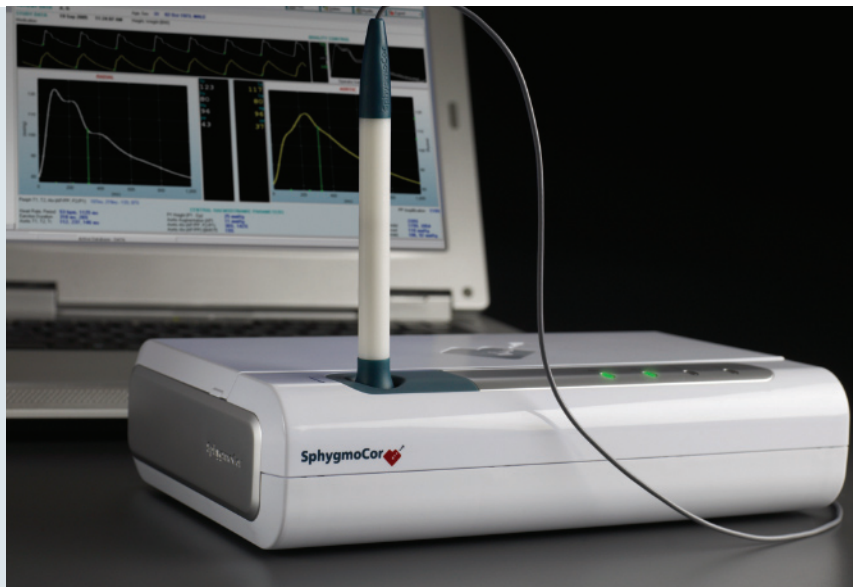
- **Ascending Aortic Blood Pressure**
- **Pulse Wave Velocity--any two accessible arterial sites**
- **Aortic Pulse Pressure**
- **Aortic Augmentation Index**
- **Ejection index**
- Automatic, real-time QA feedback—minimal potential for operator variability
- Only one operator required
- Noninvasive tests, comfortable for patients
- Heart Rate Variability Option

Benefits

- Central pressure proven to be a superior, independent predictor of future cardiovascular events
- Allows assessment of vital drug effects that cannot be detected with brachial pressure measurements
- Provides patients with visual evidence of the effects of lifestyle changes and drug therapies
- Allows integrated analysis of aortic and arterial tree stiffness

System Specifications

SphygmoCor® CPV System



SYSTEM SPECIFICATION

Product Configuration

PRODUCT	INPUTS
SCOR CPV	Tonometer ECG
SCOR CPVH	Tonometer ECG

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 μ 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%	
ECG	Type	3-Lead (Lead II)
	Bandwidth	0.67 – 40 Hz (Device does not support extended low frequency response)
	Sampling Rate	PWW: 128 Hz HRV: 1024 Hz
	Gain & Offset Adjust	Auto
	Signal Range, Accuracy	\pm 5mV, \pm 20%
	Heart Rate Range	30 BPM to 200 BPM
	Heart Rate Accuracy	\pm 10 %
Footswitch	Type	Micro-switch
	IP Rating	IPX8-1.0m

PC Interface Specifications

Minimum Computer Requirements.

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.

Unication 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, ElectroMagnetic Compliance (EMC) Standard