



# 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. Featured in hundreds of published studies, it is used in leading medical centers and in pharmaceutical clinical trials worldwide.

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

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



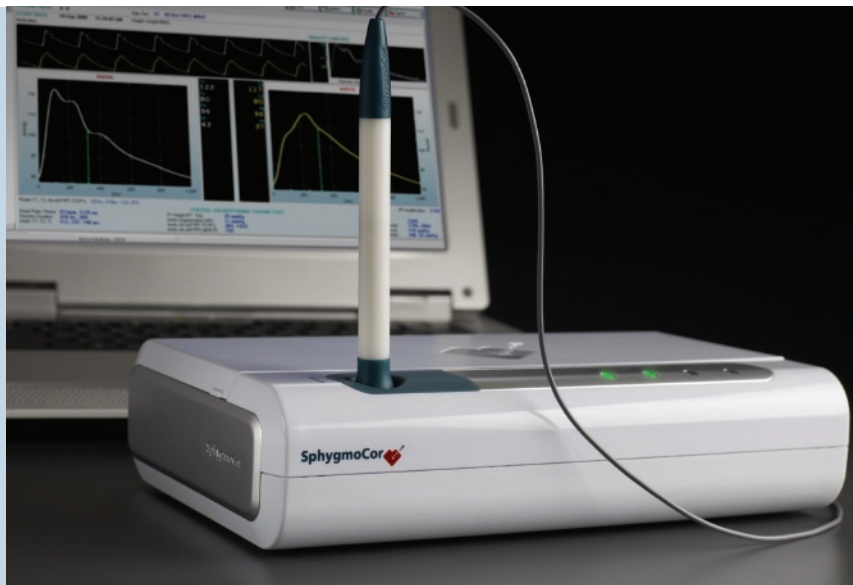
## Offering

- Ascending Aortic Blood Pressure
- Aortic Pulse Pressure
- Ejection Index
- Pulse Wave Velocity, any two accessible arterial sites
- Aortic Augmentation Index
- Heart Rate Variability Option

CPV system offers noninvasive assessment of central blood pressure and pulse wave velocity with a single operator, allowing integrated analysis of aortic and arterial tree stiffness. Central blood pressure has been proven to be a superior, independent predictor of future cardiovascular events, and allows assessment of vital drug effects that cannot be detected with brachial pressure measurements.

# 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 wheatstone bridge sensor	
	Sensitivity	5 $\mu$ V/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, $\pm$ 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.

##### 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