

Understand SleepImage Science

The SleepImage Cardiopulmonary Coupling (CPC) analysis is based on continuously and evenly sampled data from electrocardiogram (ECG) or photoplethysmogram (PPG) sensors to generate reports where it may inform or drive clinical management.

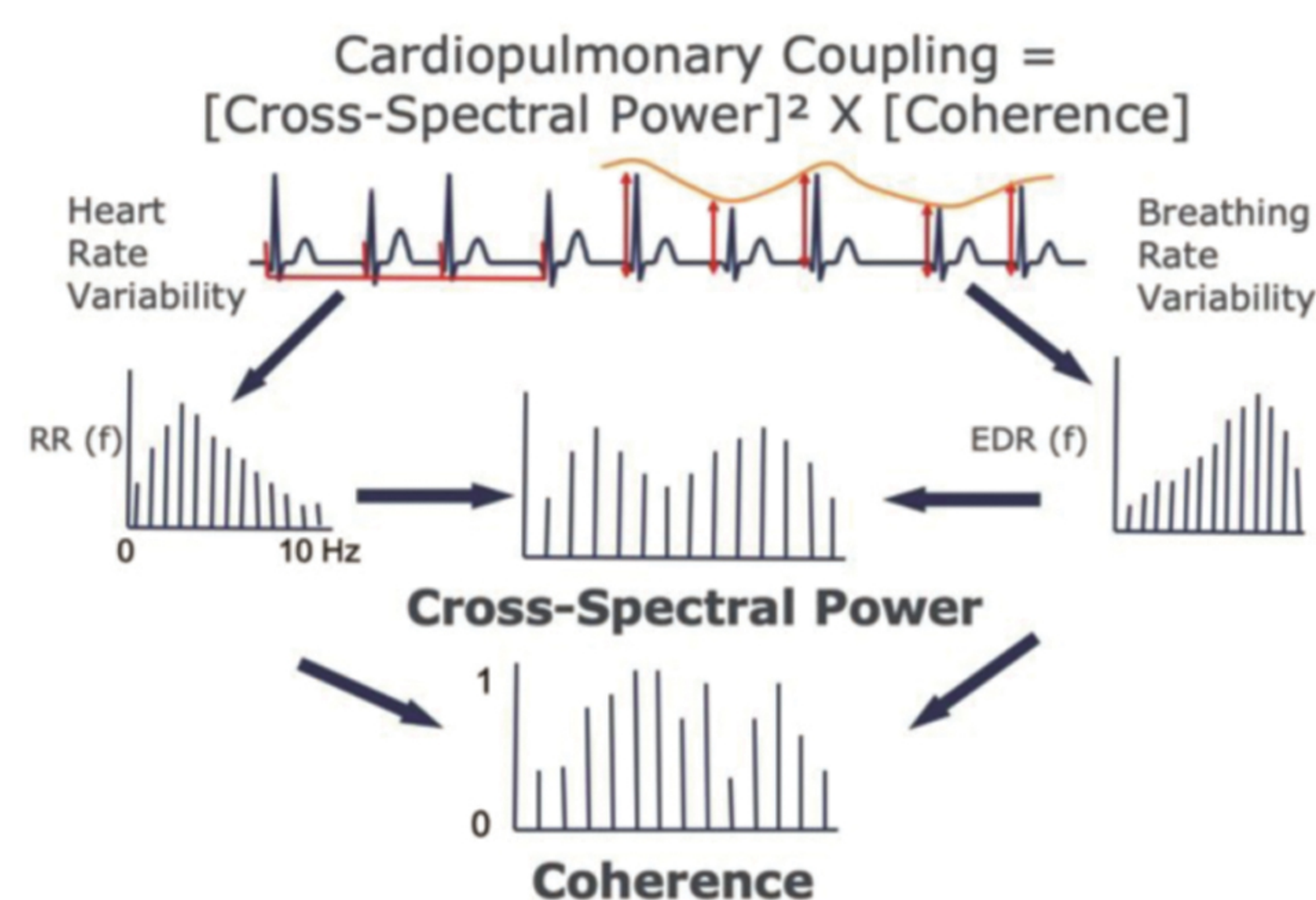


Figure 1. Cardiopulmonary Coupling.

The data collected contains information on heart rate, heart (pulse) rate variability (HRV/PRV) as a measure of autonomic drive, as well as tidal volume fluctuations in respiration, called Electrocardiogram Derived Respiration (EDR) and Plethysmograph Derived Respiration (PDR) respectively. CPC is the coupling of HRV (PRV) and EDR (PDR) (Figure 1).

		SleepImage	PSG	HSAT
Patient Population	Asymptomatic	✓		
	Symptomatic	✓	✓	✓
	Children	✓	✓	
	Adult	✓	✓	✓
Types of Testing	Sleep Disorder Evaluation ¹	✓		
	Sleep Disorder Screening	✓		
	OSA Diagnosis in Children	✓	✓	
	OSA Diagnosis in Adults	✓	✓	✓
	Treatment Tracking	✓		
Test Output	Sleep Quality	✓	✓	
	NREM & REM Sleep	✓	✓	
	Phenotype OSA vs. CSA ²	✓	✓	

For the purpose of diagnosing sleep disordered breathing, the FDA-clearance for SleepImage states the following:

“Clinical evaluation has confirmed that the SleepImage System auto-scoring algorithms calculating the SleepImage Apnea Hypopnea Index (sAHI) generate comparable output to human manual scoring of an Apnea Hypopnea Index (AHI) from Polysomnography (PSG) studies, using American Academy of Sleep Medicine (AASM) scoring guidelines for children and adult patients.”

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sleepimage system



Sleep Better
Live Better

SleepImage is a Revolutionary Approach to Managing Sleep Health in Children and Adults

FDA-cleared to:

- Measure Sleep Quality
- Measure Sleep Duration
- Evaluation Sleep Disorders
- Aid Diagnosis of Sleep Apnea
- Track Sleep Disorder Treatment



How Does SleepImage Work?

SleepImage is a cloud-based Sleep Evaluation, Diagnostic and Management System, using a Single-Sensor technology with Automated Output for Children and Adults that is FDA-cleared to be comparable to Polysomnography (PSG) to aid Clinical Diagnosis of Sleep Apnea.

