

Heart Rhythm Scanner

PROFESSIONAL EDITION



Comprehensive Health Assessment System

In the USA for research and educational purpose only

The Heart Rhythm Scanner is a versatile instrument for comprehensive assessment of the autonomic nervous system (ANS) function using Heart Rate Variability (HRV) analysis of heart rhythm recorded during specific tests. It does heart rate recording using either the electrocardiograph (ECG) or pulse wave (PPG) signal and performs HRV analysis after the testing session is done.

The Heart Rhythm Scanner uses cutting edge technology to give you the ability to measure parasympathetic and sympathetic functional activities and assess the autonomic balance in the body. The Heart Rhythm Scanner completes full HRV analysis of specific assessment tests and creates detailed reports for all trials.

Assessments included in HRS PE:

- **Autonomic Balance Test**
A standard 5-min resting HRV assessment is conducted.
A standard short-term HRV analysis is performed.
- **Cardiovascular Health Test**
A standard standup assessment is conducted. Then analysis of the autonomic balance before and after standup along with standup maneuver analysis is performed.
- **Baroreceptor Sensitivity Test**
A standard deep metronomic breathing assessment is conducted. Then analysis of HR variation caused by paced breathing is performed.

Contact Information

Phone **1-360-271-3293**
Biocom Technologies, 19813 Mosjon Circle NE
Poulsbo, WA 98370, USA
sales@biocomtech.com, www.biocomtech.com

Key Features

- Comprehensive autonomic assessment
- Autonomic Balance Test
- Cardiovascular Health Test
- Baroreceptor Sensitivity Test
- Flexible testing protocols
- Automatic arrhythmia detection and visual data editing
- Multiple data recording device support
- Adjustable time scale for ECG or pulse wave graph
- Detailed assessment report on HRV results of selected test
- Progress reports on HRV results across all tests
- Import test data from HRV Live!
- Export data in Excel or ASCII file format

The Heart Rhythm Scanner software was developed according to the standards and mathematical procedures for short-term HRV analysis set forth by:



- The European Society of Cardiology
- The North American Society of Pacing and Electrophysiology
- Association for the Advancement of Medical Instrumentation

Normative database included

The software provides HRV analysis of test data based on a large population normative database.

Interpretation of test results included in report for all types of tests!

Hardware Options

Electrocardiograph (ECG)



Biocom 4500
(USB)



Biocom 6000
(Bluetooth)

Photoplethysmograph (PPG)



Biocom 1200
(USB)



Biocom-3500
(Bluetooth)

Heart Rhythm Scanner

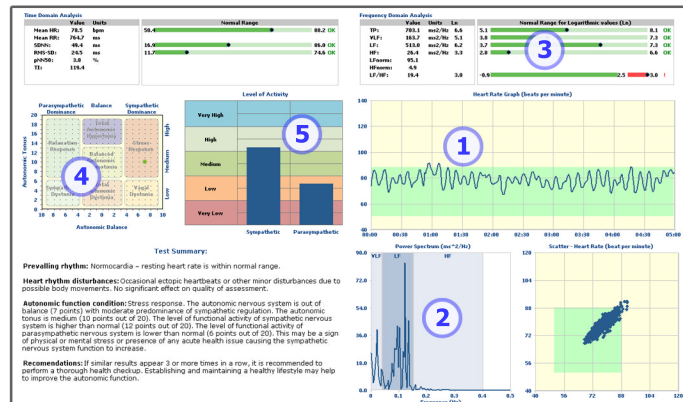
PROFESSIONAL EDITION



Health Assessment Reports

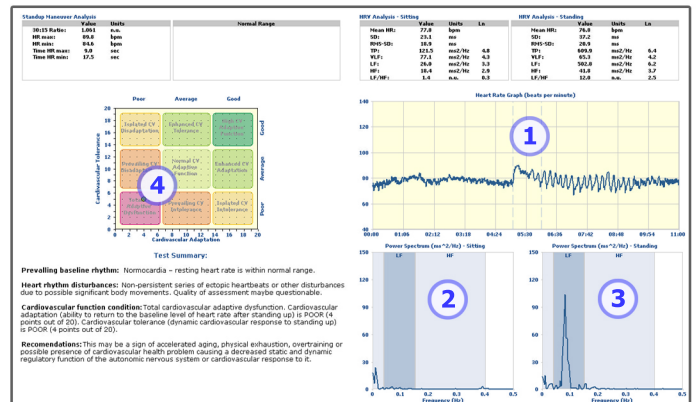
Here are some examples of the Heart Rhythm Scanner assessment reports. The software provides many other types of reports. Please visit our website for more information.

Autonomic Balance Assessment Report



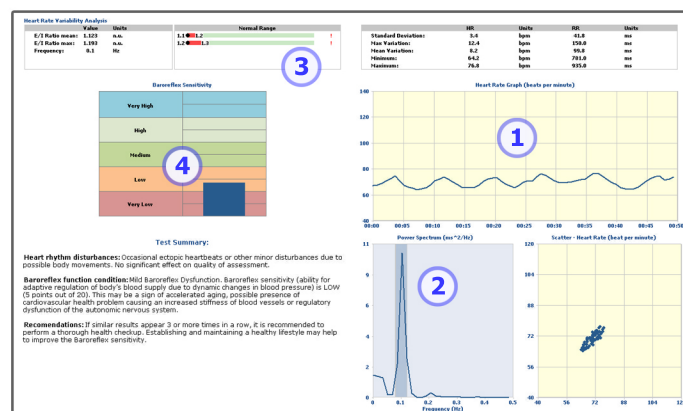
- 1 This graph shows heart rate recorded during the test.
- 2 This graph shows the power spectrum of heart rate recorded during the test. VLF, LF and HF frequency ranges are marked on it.
- 3 This numerical chart shows calculated time- and frequency-domain HRV parameters and their normal range.
- 4 This diagram shows the resulting assessment of the autonomic nervous system regulatory function based on two variables: Autonomic Balance and Autonomic Tonus.
- 5 This chart shows the level of sympathetic and parasympathetic activity level compared to their age-dependent normal ranges.

Cardiovascular Health Assessment Report



- 1 This graph shows heart rate recorded during three phases of the test: baseline, standup maneuver, and standing recovery. It demonstrates how cardiovascular system reacts to changing body posture and adapts to a new condition returning to baseline level.
- 2 This graph shows the power spectrum of heart rate before standup maneuver.
- 3 This graph shows the power spectrum of heart rate 1 minute after standup maneuver.
- 4 This diagram shows the resulting assessment of cardiovascular health based on Cardiovascular Tolerance and Adaptation parameters.

Baroreceptor Sensitivity Assessment Report



- 1 This heart rate graph shows the amplitude of waves synchronized to slow paced breathing. This amplitude depends on the level of baroreflex sensitivity.
- 2 This power spectrum graph shows major peak at 0.1Hz frequency indicating that breathing was well-synchronized and test compliance was achieved.
- 3 This numerical chart shows calculated HRV parameters and their normal ranges.
- 4 This chart shows the resulting baroreflex sensitivity level.

Non-medical Disclaimer. This instrument is not designed or intended for rendering medical advice or being used for providing professional medical services. The information it provides should not be used for diagnosing or treating any health problem or a disease, nor is it a substitute for any professional care.

Who May Use This Product:

- Clinical Researchers
- Stress Management Counselors
- Alternative Therapy Specialists
- Biofeedback Therapists
- Physiology Class Teachers
- Physical / Occupational / Recreational Therapists
- Cardiovascular Rehabilitation Specialists

System Requirements

- CPU Pentium 4, 1.6 GHz (or equivalent)
- 1 Gb of RAM
- Video card with at least 1024x768 and High-Color resolution
- 1 Gb of free hard disk space
- CD ROM drive
- One available USB port, version 1.1 or higher
- Windows 7 / 8.1 / 10 Operating System

Contact Information

Phone **1-360-271-3293**
 Biocom Technologies, 19813 Mosjon Circle NE
 Poulsbo, WA 98370, USA
sales@biocomtech.com, www.biocomtech.com