HeartSciences

MyoVista

The Power of Wavelet Signal Processing

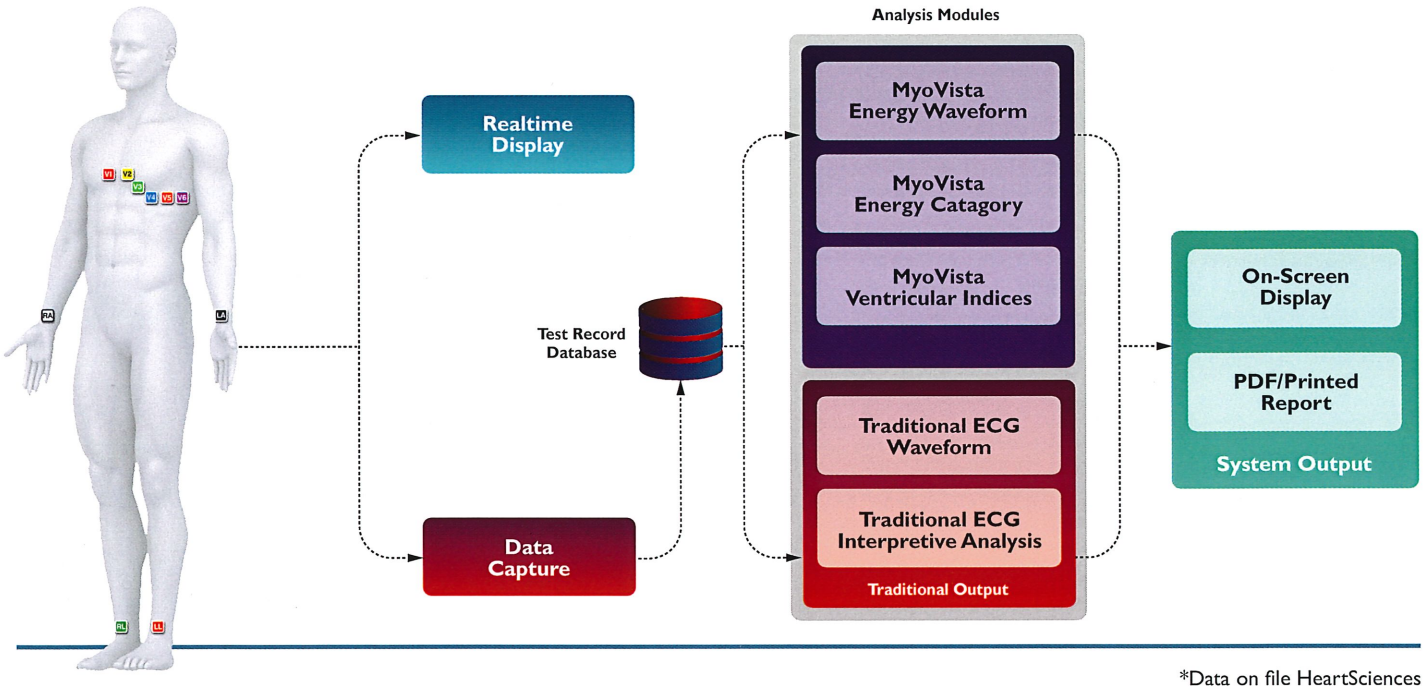
Introducing the MyoVista® hsECG™ Cardiac Testing Device

A breakthrough in early detection of cardiac dysfunction

HeartSciences MyoVista® high sensitivity ECG (hsECG™) Cardiac Testing Device is a breakthrough in the early detection of cardiac dysfunction in the diastolic phase, and is designed to fill a diagnostic gap identifying both asymptomatic and symptomatic patients at cardiac risk prior to an adverse event. During clinical trial*, MyoVista technology produced sensitivity of 88% and specificity of 87% for the detection of cardiac dysfunction. This addresses a major need since the early signs of many diseases such as ischemic heart disease are manifested as diastolic dysfunction. MyoVista testing is easy to adopt, interpret, is low cost, non-invasive and does not require any change in traditional 12 lead resting ECG clinical work flows.

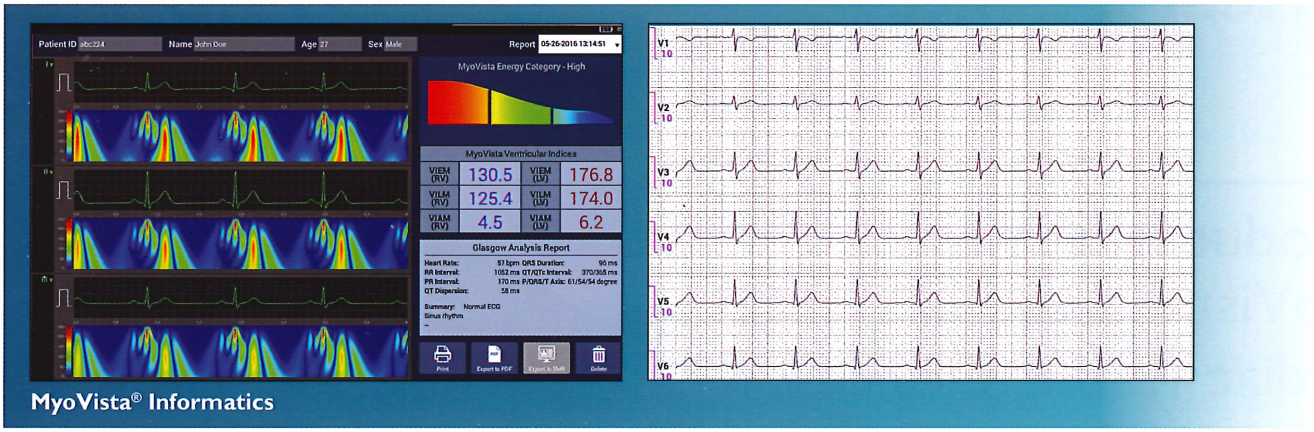
- Assists in early detection of heart disease
- 88% Sensitivity; 87% Specificity*
- Accurate and non-invasive
- Easy to perform and interpret
- Follows standard 12 lead ECG protocol – no change in clinical workflow
- Traditional ECG tracing with Glasgow Interpretive Software Analysis
- Comprehensive reporting using Informatics
- 20/30/60 Second tests with immediate results
- May reduce need for expensive advanced Cardiac Diagnostics

MyoVista Informatics:



*Data on file HeartSciences

Not available in the United States



MyoVista® Informatics

Technical Specifications

Proprietary Informatics

Energy Waveform Analysis	500 samples/sec
Energy Waveform	Vertical axis 3Hz-200Hz (Bottom-Top)
Energy Scale	0 – 255 (Blue-Dark Red)

- MyoVista Energy Waveform for all 12 leads displays energy during cardiac cycle
- MyoVista Energy Category
- MyoVista Ventricular Indices – energy index for left and right ventricles

ECG Processing

Sampling Rate	1000 samples/sec/channel
ECG Analysis	500 samples/sec
ECG Storage	> 50,000 ECG records
Signal Acquisition	20s, 30s, or 60s per test (default 20s)
Sensitivity	2.5, 5, 10, 20 mm/mv
Frequency Response	-3dB @ 0.04 Hz & 200 Hz
ECG Input Impedance	> 2.5M ohms
Electrode Offset Tolerance	> +/-300 mVDC
Artifact Filter	Configurable 25Hz, 35Hz, 45Hz, 75Hz, 100Hz (-3db)
AC Line Filter	50Hz, 60Hz

- 12 lead ECG w/ analysis that includes auto-interpretation for adults and pediatrics
- 20, 30, or 60 seconds of waveform data acquired and stored
- Disconnected lead detection
- Heart rate indicated

Safety

Common Mode Rejection Ratio	> 60dB
Patient Leakage Current	< 10 uA
EMC / ESD	Conforms to ANSI/AAMI/IEC 60601-1-2:2014 and 60601-2-25:2011

- Defibrillation-proof isolated and defibrillator protected
- Defibrillation recovery time: <5s

Connectivity

- RJ-45 Gigabit Ethernet
- Dual band Wi-Fi 802.11 1ac 2.4 GHz, 5.2 GHz
- External keyboard compatible
- HDMI external monitor compatible
- WEP, WPA, and WPA2 based encryption

Physical Specifications

Dimensions	16.75" W x 11.75" H x 3.5" D (425 mm x 298 mm x 89 mm)
Weight	10.0 lbs (4.5 kg) with battery
Line Voltage	100 to 240 VAC
Battery	14.4 volt lithium ion (~1 hr normal use)

Patient Information

Patient ID, Name, Age, Sex, Height, Weight, BSA, and comments free form area.

Environmental

Temperature	5 to 40 degrees C
Humidity	≤ 80% RH non-condensing

Features

- 15.6 Inch (396 mm) hi-res color LCD 1920 x 1080
- Multi-gesture touch screen – nitrile glove compatible
- Built-in desktop stand with 15 and 30 degree viewing angles
- Stores over 50,000 test records

Accessories and Options

- Compatible with external keyboard
- Kensington-Compatible Security Cable Slot
- Optional VESA mount for cart, counter-top, or other types of installation
- Optional cart with height-adjustable stand

Glasgow Interpretative Analysis

- Interprets traditional resting 12-lead ECG
- Recognizes and reports ECG abnormalities, including abnormalities of rhythm, defects in electrical conduction, and other anomalies

HeartSciences
1301 Solana Boulevard
Building 1, Suite 1527
Westlake, TX 76262 USA
Tel: (+1) 682-237-7781
Fax: (+1) 817-796-2075
HeartSciences.com

Authorized Distributor

DO-LBL-06060(C)

CE 0086

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