HEARTVUE

EFFICIENCY TECHNOLOGIES

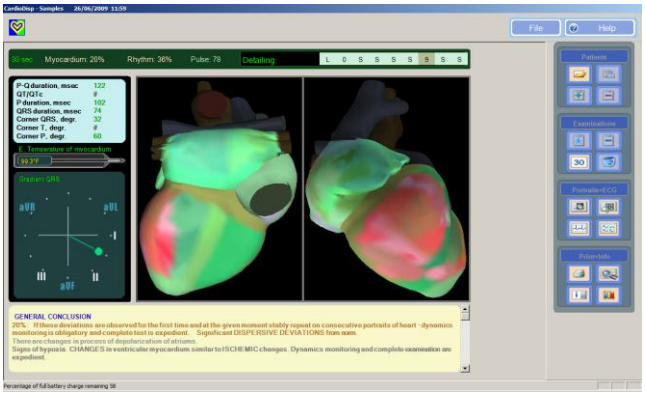
The HeartVue System is an advanced technology for early, non-invasive testing of heart disease (CHD) with 95% sensitivity and 90% specificity. The heart monitoring system provides high quality 3D visualization and diagnosis of the heart using advanced signal analysis including information from ECG fluctuations that are usually ignored as "noise" by regular ECG devices. Depending on the pathology, the device sensitivity surpasses standard ECG analysers by 7 - 50 times.

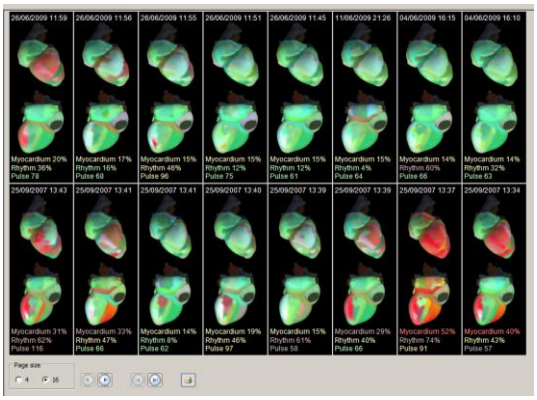
The medical device uses only 4 limb wires from the patient's wrists and ankles. Patients are easily tested sitting up, fully clothed. It incorporates patented, proprietary software that converts the electric conductivity of the cardiac tissue into a 3-dimensional, colour-coded visual portrait. The device allows testers to observe the condition of the heart muscle as well as the intensity of the heart stress load.

The HeartVue System provides a better level of diagnosis with its improved sensitivity levels detecting early warning signs that would normally be invisible with standard ECG devices. It depicts disease or stress levels as a 3D image supplementing the line drawing electrocardiogram. The system evaluates the stability of current heart conditions. It is highly portable and provides a rapid analysis in 30 or 60 seconds. The system will dramatically cut the costs associated with the detection of ischemic heart disease.

- Early, non-invasive screening with 95% sensitivity and 90% specificity
- System Portability, accuracy of analysis and ease of use cut the costs associated with ischemic heart disease detection. Stress tests can be avoided through enhanced resting diagnosis
- Enables an improvement of disease-trend monitoring during medical treatment due to new visualization
- Enables earlier detection of heart abnormalities, detects more cases of diseases and provides better diagnosis details than conventional ECG machines
- The device allows rapid recognition and estimation of the heart's condition by creating a unique 3D colour visualization of the heart's electrical field dynamics

- The system evaluates the stability of current heart conditions
- Improved sensitivity levels detect early warning signs that would be invisible with standard ECG devices. The device can detect small metabolic deviations preceding the dangerous ischemic damages of myocardium.
- The device differentiates arrhythmias and stresses more effectively
- Depending on the pathology, the device sensitivity surpasses standard ECG analysers by 7 - 50 times.
- The non-invasive system will provide more efficient clinical trials of new medications and treatment procedure results
- Ease of use makes device practical for non-clinical operators





The system will prove to be an invaluable testing device for cardiologists, general practitioners, physicians, clinics, hospitals, the fitness industry, sports teams and emergency facilities.

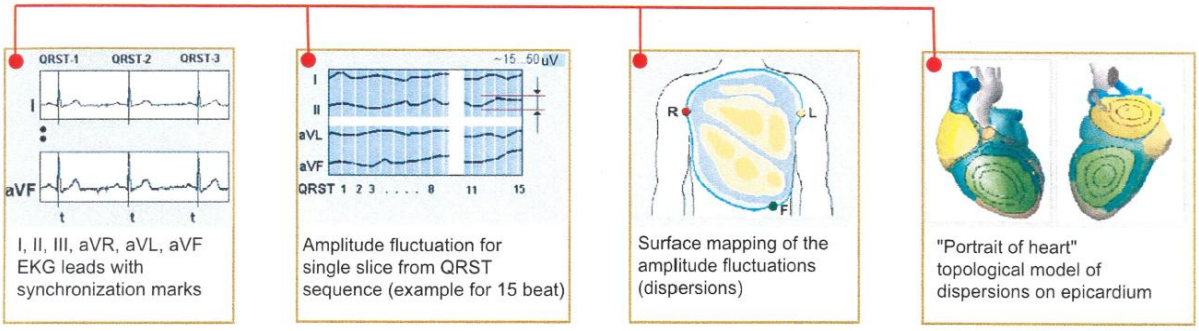
After several successful clinical trials in the United States, the Company is moving ahead in Europe, where it has received a CE Mark for sales to the EU Market.

Efficiency Technologies Ltd
Tel +44 (0) 845 299 7898 - Fax +44 (0) 203 292 1994
www.efficiencytechnologies.co.uk
Bluecube House Unit 3 Blackhill Drive Wolverton Mill Milton Keynes Bucks MK12 5TS

HEARTVUE

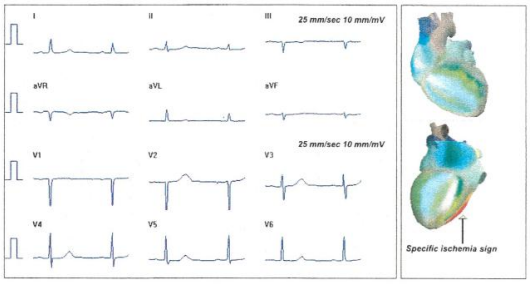
EFFICIENCY TECHNOLOGIES

Method

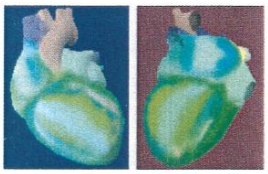


Earlier Ischemia detection

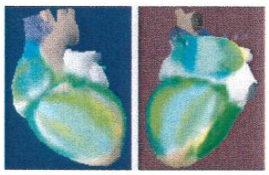
New level of sensitivity, unreachable with conventional ECG devices, is illustrated on an example of ischemia. Here the original ECG signals from 12 standard leads were classified as “normal”. However, HeartVue 6S – analysing only the signals from 4 limb-leads – revealed the ischemic changes of myocardium and displayed the heart portrait with locations of the ischemic zone.



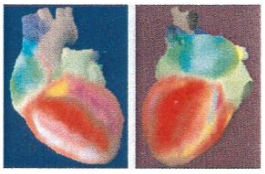
Example “Heart Portraits” for different Pathologies



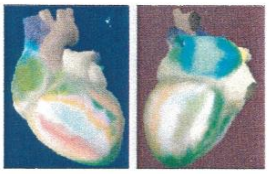
2% norm



5% norm

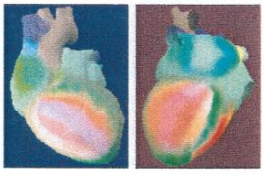


52%HC stenocardia LBBB



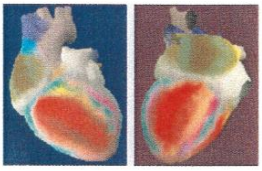
17% AH hypokalemia

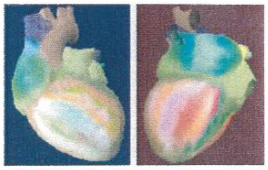
Locations of pathological changes are depicted by red colour, while normal areas are shown in a green colour.



72%CHD stenocardia PICS

36% heart disease LVH





Abbreviations:

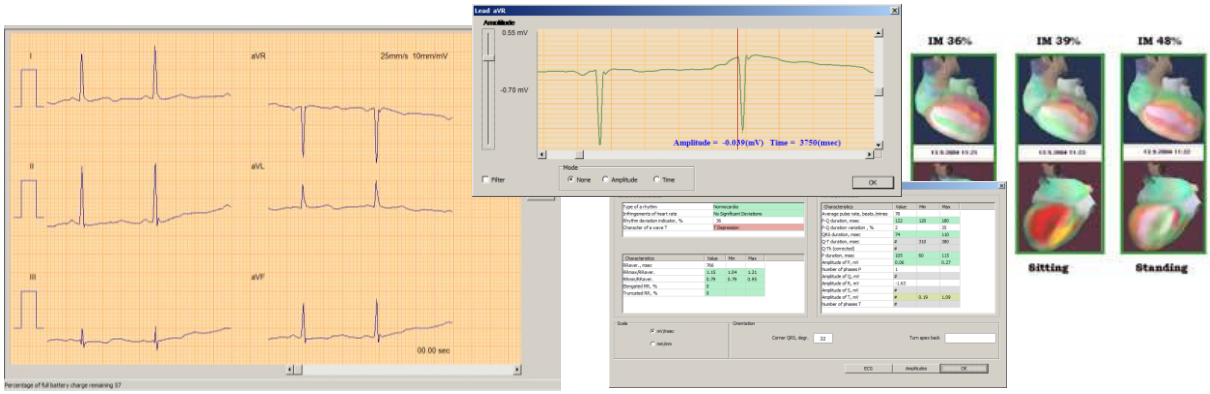
AH	arterial hypertrophy
LBB	left bundle-branch block
HC	hypertrophic cardiomyopathy
CHD	coronary heart disease
CI	cardiac infarction
BCI	blood circulation insufficiency
AF	atrial fibrillation
PICS	postinfarction cadiosclerosis

The Heart Portrait results are stored in a patient database allowing a time series visual comparison of a patient history for evaluation of trend monitoring.

Efficiency Technologies Ltd
Tel +44 (0) 845 299 7898 - Fax +44 (0) 203 292 1994
www.efficiencytechnologies.co.uk
Bluecube House Unit 3 Blackhill Drive Wolverton Mill Milton Keynes Bucks MK12 5TS

HEARTVUE

EFFICIENCY TECHNOLOGIES



HEARTVUE HISTORY

1996 Commencement of a research and development program of the HeartVue Project in Moscow.

2001 German Patent granted for the earliest version of the medical device named Cardiovisor 6S System.

2003 Approval and certification of the Cardiovisor System in Russia.

2003 Successful Clinical Studies of the Cardiovisor System by the Russian Cardiologic Research & Production Facility at the Health Ministry of the Russian Federation.

2003 Patent Pending Approval granted in the United States.

2005 Successful Pilot Study evaluating HeartVue System by a major New York institution, Maimonide Hospital

2006 CE Mark granted for approval of sale of the HeartVue System in the European Common Market.

2007 KLM Airlines evaluates ongoing HeartVue cardiovascular testing program for its 14,000 employees.

2007 Harvard University clinical study of the HeartVue System concluding further investigation is warranted

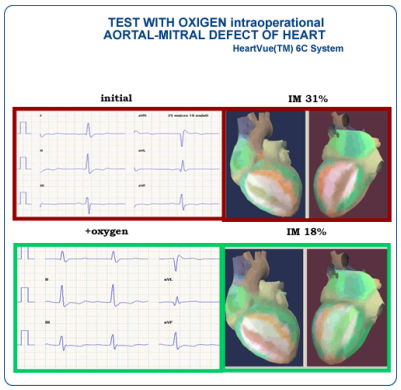
2008 FDA Approval application on strength of Harvard results

2008 Los Angeles, Ca. Initiated clinical trials

2008 London, UK Initiated Private practice trials

2009 Final FDA Approval initiated

2010 Approval Due Q1



CONTACT US

For further information or to arrange a demonstration of HeartVue, please contact us at :

Efficiency Technologies Limited
Bluecube House
Unit 3, Blackhill Drive
Wolverton Mill
Milton Keynes
Buckinghamshire
MK12 5TS
United Kingdom

Telephone +44 (0) 845 299 7898
Fax +44 (0) 203 292 1994
Web www.efficiencytechnologies.co.uk
Email info@efficiencytechnologies.co.uk