

HD fono

Audio - Visual Auscultation Device



HD Medical Group

Higher Dimensions in Healthcare

CE₀₁₉₇

Corporate Profile

HD Medical Group's vision is to promote personal and community health, through exceptional healthcare diagnostic products and solutions that address the needs of each person at reduced costs.

At HD Medical, whatever we do, it is more than just science, because we believe in redefining healthcare. The HD Medical Group with its corporate headquarters at Australia is a global designer and developer of medical technologies. Since 2005 we've designed and developed devices that aid visual auscultation and diagnostic measurement to provide early screening, monitoring, feedback and control input. Our development work also includes designing products that can be used as add-on devices by original equipment manufacturers (OEMs).

We've been driven by the maxim that timely diagnosis can mean the difference between life and death for a patient. We also understand that in emerging nations, it can have far reaching consequences on driving down the overall treatment costs and healthcare spend. This can happen either via early recognition of an acute, life threatening condition or preventive screening of a chronic disease. But most of these nations do not have well-equipped and staffed diagnostic centers within the reach of the patient. Easy to use, rapid and low cost diagnostic healthcare devices, can improve access of patients living in such underserved areas to healthcare diagnosis, and consequently disease specific treatment in a big way. Diagnosis of cardiac conditions at a community level can also facilitate reduction in disease burden and associated morbidity and mortality. Decentralization of patient-care diagnostics, from expensive labs to the immediate vicinity of the patient, is facilitated through point of care diagnostics that make it possible for physicians to receive results in real time. HD Medical Group's technologies and devices can bring about a complete turnaround in clinical diagnostics. And that is the philosophy that drives our innovative products like ViScope, HD fono, HD MurmurDoc and HD GuruDoc.

At HD Medical Group we are at the heart of healthcare diagnostics and provide a vital link to improved healthcare at reduced costs, in the physical world. Our operations in the USA and Asia Pacific provide resources close to our customers. This global footprint allows us to offer the lowest cost of ownership to OEMs. We continue to expand our technology portfolio and geographic reach through the acquisition of strategically complimentary technologies. As you partner with HD Medical Group to leverage new business growth opportunities, our emphasis is on accelerating innovation by delivering path breaking solutions or co-creating it with you.



With so many rapidly changing technologies to consider and potentially adopt, our approach is to give you access to the many innovations stemming from our labs, our award-winning research and development facility. We make you more competitive by injecting into your business the technology prowess to enter new markets and break into new product categories. At the hub of our innovation is our India Labs powered by over 50 experts focused on developing game-changing trends that offer the greatest potential for healthcare-led innovation. Our experience and proven methodologies significantly reduce the risks involved with integration, installation, and delivery and expanded market reach. We ensure that your business growth opportunities are as much tangible as our technology is.

For us, as healthcare-led innovation truly pays off, addressing the changing dynamics of healthcare diagnostics is not just a vision, but a real possibility. Our value proposition is to understand the ever-changing needs of medical diagnostics and develop technology, products and solutions that meet global benchmarks on performance and cost objectives, improving lives en masse.

We at HD Medical Group work towards achieving Higher Dimensions in Healthcare.



Products



ViScope 100

ViScope 100, which is FDA 510(k) cleared and CE approved, is an audio visual cardiac anomaly indicator with an unmatched audio quality and representation of heart sounds in the form of wave forms (phonocardiogram). Facility to freeze the waveform enables the user to have a better understanding of the anomaly. The device which is quite handy for triaging and identifying heart valve anomalies is very useful at the point of care.



Murmur Detection Software

HDfono is the first of its kind audio visual auscultation device capable of displaying heart sounds in the form of waveforms. The device has an excellent audio which is adjustable. Apart from displaying heart sounds, the device also filters murmurs and displays them separately allowing the user to understand the nature of the anomaly. The device has electronically adjustable BELL, DIA and LUNG modes making it convenient for the user to use like a regular high end stethoscope. The device functions on a rechargeable lithium ion battery making it suitable for screening large patients.

Inclusion of this software enhances the capability of HDfono to record heart sounds for 10 seconds and display basic 'MURMUR' or 'NO MURMUR' interpretation. This makes HDfono an ideal screening tool which even a trained nurse or paramedic can use very effectively.

This package allows the user to transfer the recorded waveforms to a PC/Laptop for closer study and storage. The software has some useful tools like caliper, zoom etc for better understanding.



Printer compatibility and Thermal Printer

This package allows the user to take printouts of the recorded waveform. The device can be directly connected to the printer and printouts taken instantly.



HDfono



PC Recording Software



Auscultation is a skill that is in decline across the world, thus needs augmentation. To improve how this skill is taught and retained we developed the HD GuruDoc System, a special tool in today's digital education arsenal for teaching in the 21st century...



Testimonials



I use ViScope100 in my teaching rounds and clinic and have come to appreciate the fidelity and sensitivity of the recordings and the ability to freeze the images for analysis and discussion. The battery life, reduced sensitivity to noise and variable frequency response has resulted in exciting and useful medical instrument.

Prof. Nelson B. Schiller, M.D., F.A.C.C.

Professor of Medicine, Radiology and Anesthesia, John J. Sampson - Lucie Stern Endowed Chair in Cardiology, Director of Echocardiography Research, San Francisco Veterans Affairs Hospital, UCSF Department of Medicine, Division of Cardiology, USA



Primary care physicians and medical students will find the ViScope100 device very useful for the interpretation of heart sounds and for increasing their diagnostic scope and accuracy for heart murmurs.

Prof. Jeffrey V Rosenfeld

Professor of Surgery, Monash University, Australia



I find ViScope100 to be a good clinical support tool with features that would improve clinical cardiac diagnosis. The device has excellent acoustic quality and visuals which will aid in understanding murmurs better. ViScope 100 will also be very useful in Telemedicine and teaching cardiac auscultation.

Dr. J. Balachander

Director, Professor and HOD of Cardiology, JIPMER



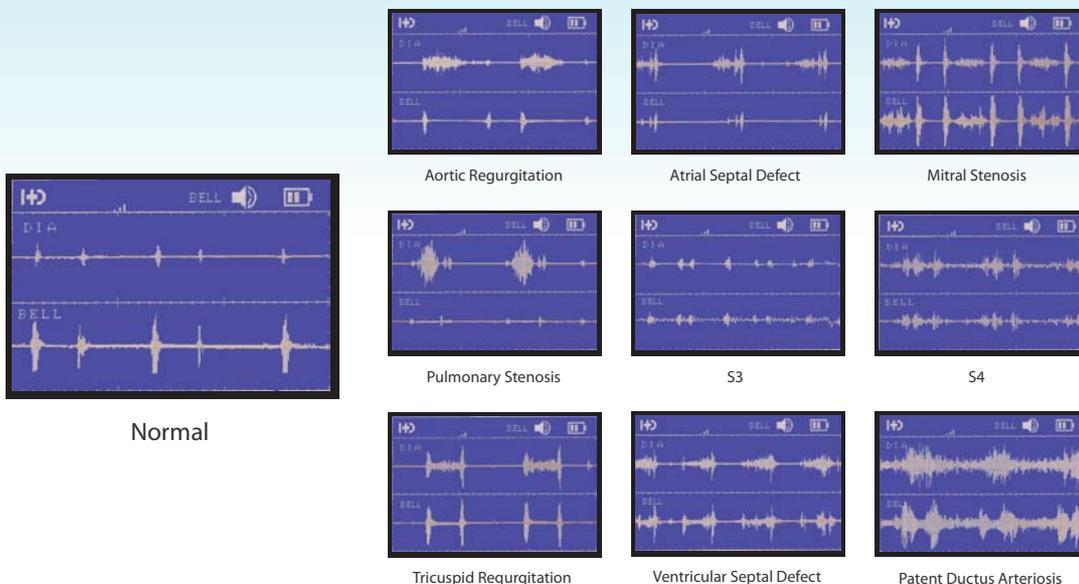
Clinical Evaluation

- Evaluation, headed by Dr. Balachander, Director, Professor and HOD of Cardiology, JIPMER, found the sensitivity to be 93 % and specificity 95 %. He also compared the results of HDfono with ECHO and found excellent correlation
- Study conducted by Prof. Alagesan, Professor and HOD of Cardiology (Retd), Institute of Cardiology, Madras Medical College, found the sensitivity to be 96 % and specificity to be 91%
- Device used on nearly 2000 patients in primary health centers in rural areas of Vellore district, India. The study team, headed by Dr. Somasundaram, Deputy Director Health Services, Vellore, detected eight cases with HD fono, which were reported normal by acoustic stethoscope

Technical Specifications

Display Specifications	High resolution LED back-lit 240 x 160 pixels graphical monochrome (blue) LCD
Electrical specifications	Power - 5V, 800 mA DC power supply Battery - Rechargeable Li-Ion 3.7V DC, 1800 mAh. Back up of 8 hours of continuous operation Charger - 100 - 230V AC, 50/60 Hz, 5V DC, 1000 mA, medical grade charger
Environmental	Operation temperature: 5°C to 40°C Storage temperature: -10°C to +60°C Humidity: 20% to 80% RH
Physical Weight	230 gms (approx. –including battery)
Power Supply	Internally powered
Biocompatibility	Device is biocompatible as per ANSI / AAMI / ISO 10993

Sample Heart sounds displayed in the device



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