

Intelligent Stethoscope with Integrated ECG

The intelligent Solution for Cardiac Care™

HD Steth is the intelligent stethoscope with integrated ECG delivering accurate and instant cardiac insights at the point-of-care. HD Steth delivers:

- Patented noise cancellation and smart amplification features for high fidelity auscultation
- Real-time visualization of cardiac waveforms displayed on a mobile app.
- Collaboration with specialists by sharing patient data for remote diagnosis and expert opinion

Features

- Integrated ECG leads
- Familiar Stethoscope form factor
- Mobile App displays PCG and ECG waveforms on any smart device
- Smart amplification and noise cancellation for crystal clear heart sounds
- Provision to save/share patient recordings for remote diagnosis/expert opinion

Benefits

- Saves time and cost
- Easy to use
- Instantaneous evidence-based detection at the point-of-care
- Enables superior auscultation even in noisy environments
- Allows real-time collaboration with remote specialists and Telemedicine organizations

HD Steth App

- Available for Android based smart devices
- Free download from the App Store and HD Medical website
- High fidelity sounds displayed real-time in the form of waveforms
- Bi-directional communications between HD Steth and App
- Records waveforms and patient data which can be easily sent to specialist for Tele-consultation
- Record, save, review, replay, share, generate and print reports





Technical Specifications

Display: Graphic OLED, 64 x 48, Blue on Black, 2.8V, I2C, Parallel, SPI, 18.5mm x 18.1mm, -40 °C

ELECTRICAL

Battery: One Rechargeable Li-Ion 18650 (Size) 3400mAh 3.7V – 18 hours of continuous operation

Charger: 100-240V AC, 50/60 Hz, Output: 5.0 V DC, 2000 mA.

ENVIRONMENTAL

Operating Temperatures: 5°C to 47°C

Storage Temperature: -10°C to +60°C

Humidity: 20% to 80%

Atmospheric Pressure (kPa): 101.3 kPa to 79.4 kPa

Physical Weight: 250 grams (excluding battery)

Length: 740 mm

Width of Chest piece: 56 mm

Height of Chest piece: 43 mm

Emission compliance: EN55011, CISPR 11, Group 1 Class A

Electrical Shock Protection: Type BF

Enclosure Degree of protection: IPX1

Biocompatibility: ANSI/AAMI/ISO 10993

International Regulatory Standards

ANSI / AAMI / IEC 60601-1-2:2014 / EN 60601-1-2:2015 / IEC 60601-2-27

TEST	EN STANDARD
Conducted Emission	EN 55011:2016+A1:2017
Radiated Emission	EN 55011:2016+A1:2017
Harmonics on AC Mains	EN 61000-3-2:2014
Flicker	EN 61000-3-3:2013
Electrostatic Discharge	EN 61000-4-2:2009
Radiated Susceptibility	EN 61000-4-3:2006+A2:2010
Electrical Fast Transients and Bursts	EN61000-4-4:2012
High Energy Surge	EN 61000-4-5:2014
Conducted RF	EN 61000-4-6:2014
Power Frequency Magnetic Field	EN 61000-4-8:2010
Voltage dips & interruptions	EN 61000-4-11:2004
Electrical Safety & Essential performance	IEC 60601-1:2005, COR1:2006, COR2:2007, AMD1:2012 (or IEC60601-1:2012 reprint)
Drop Test	IEC 60601-1 Clause 15.3.4.1

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