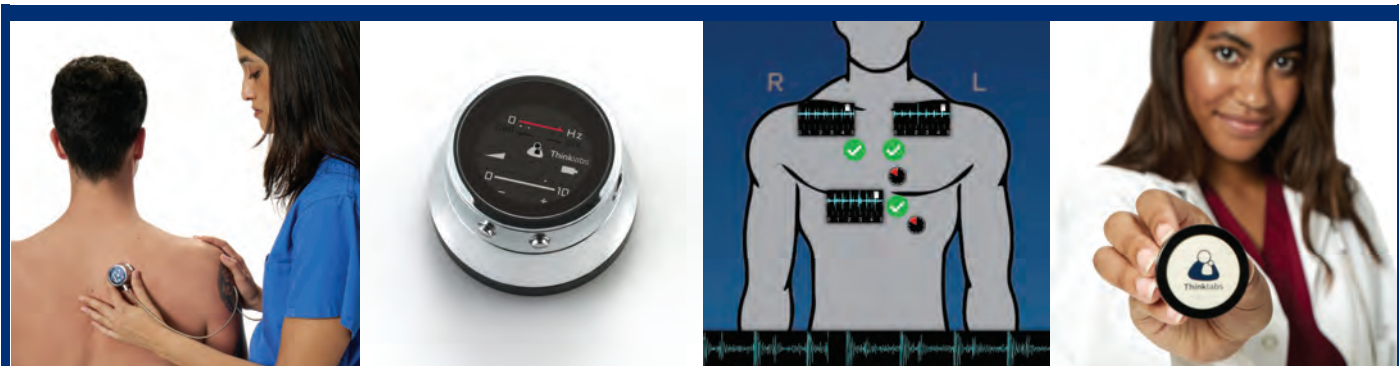


One in the World

Thinklabs operates its own ISO-13485-registered design, manufacturing and service facility in Colorado, USA. The company has been selling US FDA-approved digital stethoscopes to a worldwide customer base since 2003 and obtained the CE Mark in 2017.



Technical Specifications

Amplification	More than 100x (>40dB)
Audio Filters	5 bandpass filters
Display	Volume, Filter, Battery LED scale
Output Signal Level	Low impedance headphone driver, 3V p-p
Power Input	5V DC (USB charger compatible)
Power Source	Internal Lithium-Ion cell
Battery Capacity	> 120 patient exams per charge (2 minutes per patient)
Connector	4-conductor 3.5mm jack
Transducer	Thinklabs-patented Electromagnetic Diaphragm™
Dimensions	46mm x 28mm
Weight	50g
Headphones	Thinklabs high performance earbud headphones included, compatible with any high quality audio headphones
Accessories	Thinklabs high performance earbud headphones, carrying case, 100-240V USB-style charger, charger cable, Thinklink Mobile Kit (PC/Mac/Mobile etc.) USB audio adapter (optional)
Hearing Aid (HA) Compatibility	Connects to headphones or HA streaming devices with 3.5mm inputs (e.g. most models by Cochlear, Oticon, Phonak, Resound, Sivantos, Starkey, Widex). Use headphones with open/closed-fit HA or streamers with closed-fit HA.
Telemedicine Compatibility	Connects to the audio inputs of most leading platforms, equipment and software (e.g., AmWell [formerly Avizia], Thinklabs.live, TokBox, Vidyo, VSee, WebRTC, Zoom) and videoconferencing codecs (e.g., Cisco, Polycom)
Apps/Software	Compatible with PC/Mac/iOS/Android audio recording/audio transmission apps, Thinklabs.live, Thinklabs Wave app (iOS, Android)



Introducing Thinklabs One: The smallest, most powerful stethoscope in the world ...

- ...for
- Clinical Practice
- Medical Education
- Research
- Hearing Loss
- ICU & Biocontainment
- Telemedicine & mHealth



Thinklabs Medical was founded in 1991 and is led by Clive Smith, a Caltech-educated electrical engineer. The Thinklabs One has been featured in The New York Times, New England Journal of Medicine, and Contemporary Pediatrics. The One was selected for a Good Design Award by the Chicago Athenaeum of Architecture and Design in 2017, and was named a finalist in the 2016 International Medical Design Excellence Awards.

The Thinklabs One Digital Stethoscope is manufactured in the USA and used by discerning doctors worldwide, a favorite among clinicians in every area of medicine including cardiology, pulmonology, internal medicine, general practice, emergency medicine, intensive care, allergy and pediatrics. It is also used in veterinary medicine.

Telemedicine and mobile health systems use Thinklabs One for remote listening and recording. Its unique design has empowered innovators to monitor patients in ICU and biocontainment units, create new methods for teaching, provide solutions for hearing impaired clinicians, and do research in signal analysis and machine learning. The One has an open interface, facilitating connection to almost any platform.

One in Clinics & Hospitals

Thinklabs One offers more than 100x amplification and features fully adjustable volume, so clinicians can hear heart, lung, blood pressure and other sounds - even in loud, chaotic environments. Its acoustic power makes it easier to listen to patients who are difficult to hear, such as those who are overweight or have faint heart sounds. The Thinklabs Wave app allows clinicians to capture sounds, annotate, save recordings, share sounds with a colleague or attach to a patient record to monitor progress over time.

The Thinklabs One is the biggest single advancement in the stethoscope since its invention.

Eric Strong, MD, Stanford University

The unique design of One provides for auscultation in ways not possible with conventional stethoscopes. For example, healthcare workers can listen to patients while protected in isolation environments. Thinklabs One became the standard-of-care stethoscope at the front-line hospitals designated by the US Government for treating Ebola patients in 2014. It can be used with personal protective equipment in an isolation room or with protective covers in the Emergency Department to reduce contamination when pre-screening admissions. Examine a patient directly using headphones or transmit via bluetooth to a consultant outside the room. Send sounds via email or instant messaging to remote specialists.

I honestly have never heard murmurs so effortlessly. This is an amazing product almost every healthcare provider should put to use.

Chris Clark, MD

Clinicians who are hearing-impaired can use Thinklabs One without having to remove their hearing aids every time they auscultate. Using the stethoscope with a streamer or a favorite pair of headphones provides excellent sound quality. Thinklabs has an established community of clinicians with hearing loss, and is widely recommended by audiologists and leading hearing aid companies.

One Applications & Software



Using the Thinklabs Wave app, clinicians can capture sounds on Thinklabs One, edit and annotate recordings, store them in the Cloud, or send them to a colleague for a second opinion. If you're an educator, you can use the Wave app to send sounds live around the patient bedside to your students on mobile devices. Capture the sound, visualize the sound wave, mark an interesting pathological sound, and present later in the classroom or at a conference.



The Thinklabs.live audio channel enables a clinician or patient to transmit sounds live to listeners across the room or across the globe. Free.

One for Telemedicine & mHealth

Thinklabs One goes beyond the clinic and provides an easy means of remote live listening, recording, storing and forwarding sounds for telemedicine applications. The One offers connectivity, simplicity, value and sound quality that works in any setting, including mobile platforms.

For superior audio fidelity, Thinklabs One is the hands-down winner.
Scott Jung, Editor, Telemedicine Magazine 2016 Buyers Guide

Because One has a direct analog audio output, it operates as an external microphone for any system. No SDK, special software, or API is required. Thinklabs One uses the conference audio channel for transmission and integrates seamlessly with almost any video conferencing system. That's why Thinklabs is the stethoscope of choice in the leading telemedicine systems, carts and kiosks worldwide.

One in Education & Research

Thinklabs One has revolutionized medical education by changing the way auscultation is taught. Historically a time-consuming and difficult skill to master, auscultation is becoming a lost art. Thinklabs One allows the educator to connect the stethoscope to a loudspeaker or headphone splitter, enabling students to listen live around a patient's bedside.

Thinklabs digital stethoscopes are used at leading medical schools across the United States, including Harvard University, Johns Hopkins University, the Mayo Clinic Medical School, and Stanford University. The One was recently featured in the *New England Journal of Medicine*¹, in an article about teaching physical diagnosis at Harvard, where it was described as "transformative."

The digital stethoscope is a transformative educational tool.
Elazer Edelman, PhD, MD, FACC, Harvard University

The Thinklabs Sound Library² and YouTube Channel provide a vital and valuable resource for medical students and professionals. Contributors to the library include leading cardiology and pulmonology researchers from across the globe.

Thinklabs One is also used by clinical researchers for capturing and analysing sounds for studies of various diseases. The device is being used in research projects around the world, from detecting acute diseases in the developing world, to longitudinal studies of chronically ill patients in the United States.



Quality Construction & Materials

- Sapphire quartz crystal display
- Hand-polished, chrome-plated finish
- Digital audio technology
- Assembled by Thinklabs in Colorado

1. Edelman, Elazer R., and Brittany N. Weber. "Tenuous Tether." *N Engl J Med* 373, no. 23 (2015): 2199-201. doi:10.1056/nejmp1509265.
2. thinklabs.com/sound-library