

VoqX™

Model: 2020V1

SMART Auscultation

The VoqX™ Smart Stethoscope captures the full range of body acoustics using dynamic ambient noise cancelation and unmatched sound quality for effortless and accurate auscultation. The VoqX is AI-ready to apply disease classifications for decision support*.



Auscultate the Un-hearable

Low-frequency sound waves (3-40Hz), also known as infrasound, are not audible to the human ear yet carry diagnostic information that has been unavailable up until now. The VoqX picks up the infrasound range and uses this information for AI disease classification*.



Don't be Bothered by the Noises Around You

The VoqX implements dynamic ambient noise cancelation via a dedicated microphone that picks up the surrounding noises for cancelation. This is important for clinicians working in noisy environments such as the ER, ambulances, pediatrics and crowded clinical environments.



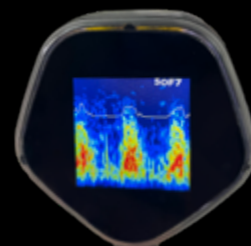
Auscultate Effortlessly

The VoqX shifts the collected body acoustics to the frequency range where the ear is most sensitive. This gives a perception of a 40X amplification of the body's sounds and is preferable to purely electronic amplification that can saturate sounds, distort information and amplify noise.



See What You Hear

Both the infrasound and the audible information are presented in Sound Signature form, to assist in the diagnosis.



AI-Ready for Disease Classifiers

Sanolla's state-of-the-art artificial intelligence (AI) disease classifiers for asthma, COPD, CHF, pneumonia AS, AR and MR will be available upon regulatory approval. The VoqX can always be upgraded with new algorithms.

The Best Decision Support

- ✓ **Infrasound Aware** – Full range of clinical information
- ✓ **Dynamic Ambient Noise Cancelation** – for noisy environments
- ✓ **Unmatched Sound Quality** –effortless and accurate auscultation and 40X perceived amplification
- ✓ **AI Ready**- Upgradeable to a full suite of cardiopulmonary disease classifiers*

*Upon regulatory clearance



VoqX™ Specifications

Physical and Performance

Weight	200gr
Length from ear tips to chest piece	820mm
Membrane diameter	44mm

Acoustic Capturing and Sound Reproduction

Signal pick-up frequency range	3 – 2,000 Hz
Amplification factors	40X
Ambient noise cancellation factor	20 dB (1:100)
Improved auscultation perception	Through frequency shifting

Operation Modes

Heart	Emphasizes heart sounds (55-665 Hz)
Lung	Emphasizes lung sounds (100-870Hz)
General	Emphasizes sounds in the 57-900Hz range

Display

Size	1.54"
Type	TFT
Resolution	240x240 RGB
Color Depth	16.7M
Viewing Angle	Any direction

Battery

Type	Single Li-ion battery cell
Voltage	3.7 VDC
Charge capacity	1500 mAh
Battery life	240 patients @ 1 minute each

Charger

Type	USB cable
Input	5 VDC @ 1.5A power consumption maximum
Port type	microUSB

Data Storage and Transfer

Memory Size	7 hours of continuous recording
Communication	Data transfer via BLE 5 protocol
Regulatory/safety certification	IEC 60601-1:2005, AMD1:2012, AMD2:2020 IEC 60601-1-2:2014 IEC 60601-1-6:2010, AMD1:2013, AMD2:2020 IEC/EN 62133-2:2017 EN 300 328 V2.2.2 (2019)



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