ADAMM-RSM

INTELLIGENT MONITORING FOR COVID-19

Real World Evidence Centered Around Auscultation

SYMPTOMS AND SERVICES

The Symptoms We Track

Cough

Each cough is counted individually provided that the time lapse between each cough is at least 0.8 seconds. Each event is time stamped.

Stifled coughs may not be recognized as a cough event. A stifled cough is one where the mouth is clamped shut or forcefully covered.

Cough identification feature occurs in real time continuously.

Heart Rate, Presence of Wheeze and Respiration Rate

Heart rate is the count of beats per minute based on a sampling period less than a minute.

Wheeze is indicated as a 'yes' or 'no' event meaning that wheeze is present or not.

Respiration Rate is the count of number of cycles per minute based on a sampling period less than a minute. A cycle is considered inhalation and exhalation.

Determine how often you want to measure these symptoms—frequency is configurable from once per 5 minutes to once per 24 hours.

Ambient conditions may affect the ability to collect sufficient data to determine these parameters.

Activity Level

Collected as often as you want—once every 5 minutes or once every 24 hours.

Measured on a scale consisting of 10 levels where the lowest level is at rest and the highest excessive motion occurring frequently.

Temperature

A reading of skin surface temperature directly under the wearable.

COVID-19 Monitoring Transformed

Cough, COVID-19 Specific Lung Events:

Capture audio from the torso in a patient friendly manner. Audio capture will be selective and provide the opportunity to identify coughs and specific features of cough.

In addition, we provide periods of unfiltered audio on a schedule providing the opportunity to collect lung sounds to define patterns for COVID-19.

Direct streaming mode via Wi-Fi provides you the ability to listen to real time audio directly from torso area.

Correlate With Temperature, Heart Rate, Presence of Wheeze and Respiration Rate

All these symptoms are measured on a configurable schedule to allow development of a signature of disease progression.

A Full Suite of Services

Analysts are on standby to review the audio to identify coughs, lung sounds of interest, shortness of breath, etc. and provide reports on these events, complete with time stamps.

The utility :

- correlation of these events with the patient's response to therapeutic (or not) in between clinic based evaluations.
- Progression and correlation of disease symptoms in totality to generate symptoms of interest

Easy Data Access

Syncs automatically with dedicated HIPAA-compliant cloud server when in a powered charging cradle. Sync frequency when on battery is configurable.

When non-blinded, sync with iOS and Android devices running official aps via BLE.

This product is not intended for life threatening applications, nor to be the sole input for diagnosis

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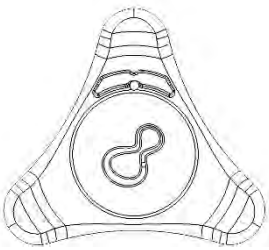
HARDWARE DETAILS

Physical Features



82mm

12mm

Weight = 40g

Sensors and Components

- Audio and Motion Sensing MEMS
- Temperature Sensor
- Vibration Motor
- Microprocessors for Real-Time Data Processing

Comfort and Wearing

Limited flex allows the wearable to conform with the moving body. Position between the stomach and below the base of the neck i.e. the upper torso. May be used on the front, side or back of the torso within specified area. As such, facilitates positioning in a different spot from day to day.

User Interface

- Tactile Buttons
- 3 Color LEDs
- Vibration

Water Resistance

Sweat, Rain and Splash-Proof

Materials

Wearable housing made from thermoplastic polyurethane material. Adhesives are acrylic based.

Device Memory

Detailed data including calculated data for 21 days.

Communications

- Wi-Fi
- Bluetooth Low Energy

Package Includes Everything You Need For Easy Implementation:

Blinded, Non-Blinded iOS & Android Apps

Dedicated Cloud Server

Charging Cradle & USB Wall Adaptor

Instructions for Use
Quick Start Guides

Reusable Wearable

Peel and Stick Adhesives

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Specifications subject to change without notice