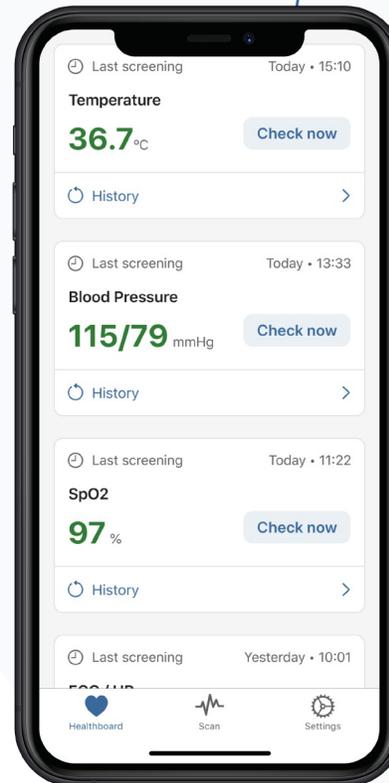




Mawi Vital overview

Mawi Vital device combines the best of consumer friendliness and medical-grade data, ensuring both patient **adherence** and **medical relevance**.

It is designed to provide on-demand screenings, regular check-ups for ambulatory monitoring capability of multiple fundamental human vitals and biometrics.



Vital device elegant and compact design means patients can always have it by their side, using it **anytime, anywhere.**

Patients can spend less than **3 minutes** on self-screening from the comfort of their home to detect early signs of health problems.

Device Description



THE DEVICE CONTAINS 5 MEDICAL SENSORS FOR MEASUREMENT OF:



EKG



Blood pressure



Body temperature



Blood oxygen saturation (SpO₂)



Blood glucose

All sensors are medical grade and are collecting data which can be interpreted by doctors. Data is transferred from the device to the patient's Mobile phone via Bluetooth and then to Mawi Vital Platform Cloud for analysis and storage.

MEDICAL CERTIFICATION

Mawi Vital device can be used as a homecare monitor for personal use or for public screenings. It has a CE mark as a Class 2A medical device.



Vital Signs



EKG / HR / HRV / RESPIRATORY RATE

Mawi Vital device allows patients to track key heart metrics anytime, anywhere. Equipped with an electrocardiogram sensor, Mawi Vital allows them to notice an abnormal heart rhythm event, track heart rate, respiratory rate, and analyze heart rate variability (HRV) metrics.



BODY TEMPERATURE

The device is equipped with a highly accurate Infrared sensor. Patients can measure their forehead temperature in just 3 seconds.



BLOOD OXYGEN

The device is equipped with a medical PPG sensor. Patients can measure their Blood Oxygen Saturation just by putting the finger on top of the device for a few seconds.



BLOOD PRESSURE

Mawi Vital device is equipped with the blood pressure measurement module powered by Mitsumi high accuracy pressure sensor. Patients can easily track BP just by attaching the device to the portable cuff and pressing a button in the mobile app.



BLOOD GLUCOSE

Most people with diabetes are logging blood glucose results after taking blood samples. And they know how disturbing and time-consuming it can be. But now patients can easily and conveniently capture all blood glucose readings to help them manage their diabetes smarter - anytime, anywhere.



Mawi Vital App Features



AI-powered algorithm and analytics



Irregular Heart Rhythms analysis



Result Interpretation



Charts and Graphs



Easy Data Sharing



Sending Data to Doctor



Adding Notes



Reminders

Users can view trends, charts, and averages right on their screen for actionable health management at their fingertips.

App automatically generates a pdf report with EKG trace and all vital signs data which can be easily shared with the doctor anytime, anywhere.

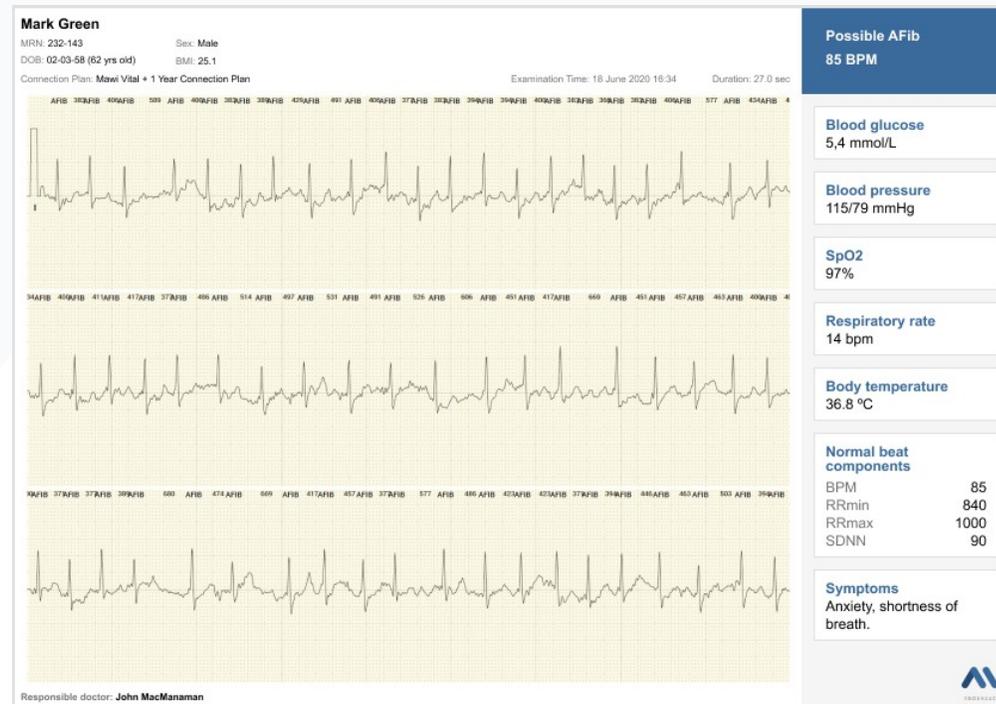
All patients' readings are stored automatically in Mawi's HIPAA compliant cloud.





Mawi Algorithms

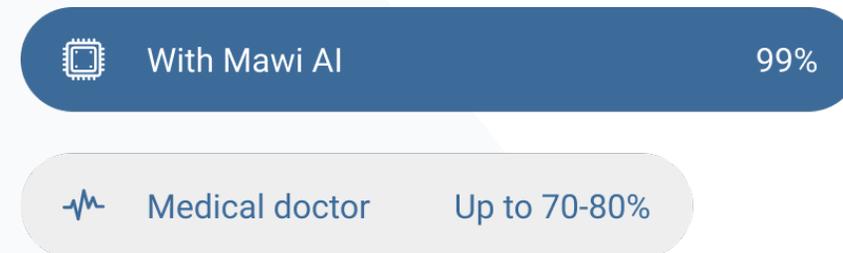
Mawi AI Core is a patented technology for Atrial Fibrillation (AFib) and different types of Arrhythmias detection. We are using a novel AI approach for biosignal analysis and filtration.



More than **40K (1M hours)** unique ECGs were analyzed to train our algorithms. We achieved **99,84 %** accuracy of AFib detection on real patients' data.

By screening with Mawi EKG algorithms, patients with undiagnosed rhythm abnormalities could be detected earlier and start preventive therapy earlier meaning future adverse events, including strokes, might be avoided.

Sensitivity and Specificity of AFib detection*



*Doctos looking at single lead EKG



Tech Specs

 **Weight**
70 grams

 **Dimensions**
7 cm x 7 cm x 1.84 cm
Three stainless steel electrodes

 **Power**
Li-Ion 400 mA/h battery
14 days of typical use without charging

 **Requirements**
Compatible Apple or Android device
with Mawi Vital App

 **Connectivity**
Bluetooth Low Energy technology
1m wireless range

EKG SPECIFICATION

Measuring mode: Single Lead
Input impedance: $>10M\Omega$
Input circuit current: $<0.1\mu A$
Calibration voltage: $1mV \pm 0.05mV$
50Hz interference suppression filter: $>20dB$
Maximum input range: $\pm 4.7mV$
Frequency response: 0.5-40Hz
Polarization resistance voltage:
 $\pm 300mV$, Amplitude variation $<10\%$

BLOOD OXYGEN SATURATION SPECIFICATION

Measuring method: Reflective
Measuring range: 90%-99%
Measuring rate: $\pm 2\%$

BLOOD GLUCOSE SPECIFICATION

Measuring time: $5S \pm 1S$
Measuring range: 1.1mmol/L~33.3mmol/L
Measuring rate: $\pm 2\%$

Test system repeatability:
For the sample concentration < 5.5
mmol/L($100mg/dL$), the test imprecision will
be showed by standard deviation, $SD < 0.42$
mmol/L($< 7.7mg/dL$);
For the sample concentration ≥ 5.5
mmol/L($\geq 100mg/dL$), the test imprecision will
be shown by a variable coefficient, $CV < 7.5\%$.

BLOOD PRESSURE SPECIFICATION

Measuring method: Oscillometric
Cuff perimeter: 22-35cm
Measuring range:
Blood pressure: 0-300mmHg
Systolic pressure: 60-260mmHg
Diastolic pressure: 40-199mmHg
Measuring rate: ± 3 mmHg

BODY TEMPERATURE SPECIFICATION

Measuring method: Infra-red
Measuring part: forehead
Measuring range: 32 -42 °C
Measuring error:
 $36-39^{\circ}C \pm 0.2^{\circ}C$
 $>39^{\circ}C$ or $<36^{\circ}C \pm 0.3^{\circ}C$

About the Company



Mawi is a **medical data-driven** company with significant expertise in AI solutions and smart wearables.

MAWI develops **clinical-grade AI** solutions that can enable precision medicine and improve patient outcomes.

MAWI Research Platform is a global community of biomedical engineers and medical researchers.

Mawi is the main device and analytic software supplier of **10 year** population CCWD study leading by Zurich University and UNICEF.

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