

astem

- Lightweight Compact Drip-proof
- Dual connection
- Two measurement modes (Real-time/Storage mode)

Oxy-Pro

Tissue Oxygen Saturation Sensor



Features

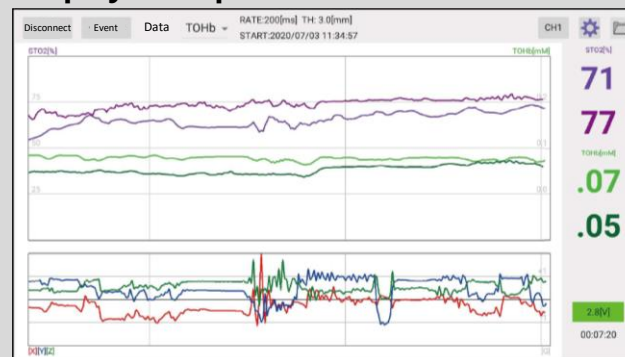
- Compatible with smartphone/tablet
- 2 units in parallel use possible (Dual mode)
- 4 measurement items (StO₂, Oxy-Hb, Deoxy-Hb, T-Hb)
- Sweat drip-proof
- Fixing belt to prevent slippage
*Utility model acquired
- Coin battery (CR2032R)

Specifications

Measurement method	SR-NIRS (Spatially Resolved method, Near-Infrared Spectroscopy)
Measurement item	Oxygen saturation (StO ₂ : %) Oxygenated hemoglobin (Oxy-Hb: mM) Deoxygenated hemoglobin (Deoxy-Hb: mM) Total Hemoglobin (T-Hb: mM) Accelerometer, gyroscope
Measurement mode	Real-time mode: Real time display on the display device Storage mode: Measured data uploaded to the display device later
Sampling rate	Single-Mode/Dual-Mode: 0.05 sec/20 Hz ,0.1 sec/10 Hz ,0.2 sec/5 Hz ,0.5 sec/2 Hz ,1.0 sec/1 Hz ,5.0 sec/0.2 Hz (In Dual-Mode, 0.05 sec and 0.1 sec may not be available depending on the capability of the host device and the surrounding radio wave environment.)
Fat thickness correction	Correction for fat thickness increases accuracy when calculating oxygen saturation (StO ₂ : %). Setting range: 1-11 mm (including skin thickness)
Measurement display program	iOS: App Store. Android: Play Store or our website. (Some android models do not work so check your model beforehand.) Windows/data display program: Our website
Wireless connection	Bluetooth-LE, registration ID=D047733
Battery	Coin battery: CR2032R (Murata recommended) / *High current type Battery duration: approx. 5 hours (1 second sampling rate) - 30 minutes (0.05 sec sampling rate)
Display device	Tablet, smartphone (iOS, Android), and computer (Windows)
Size	Size: L 46* W 30* D 8 (mm), Weight: 11 g (Battery included, shade excluded) Drip-proof (sweat-proof)

- This product is a non-medical device and should be used at the user's own risk after receiving approval from the organization's ethics committee, etc., if it is to be used for medical treatment.
- This product does not include a display device. Please use your own tablet, smartphone or PC.
- It is possible to develop and sell other applications using this product. Please consult us in that case. Although there are some restrictions, we will cooperate in disclosing the necessary information free of charge.
- This product is based on Dr. Niwayama's photometric measurement and fat correction algorithms, and has been developed under the supervision of Dr. Mokume of the Department of Health Promotion and Sports Medicine, Tokyo Medical University.

Display example (In Dual mode)



- Oxygen saturation (StO₂: %)
- Oxygenated hemoglobin (mM)
- Deoxygenated hemoglobin (mM)
- Total hemoglobin (mM)

astem Oxy-Pro



× 1



Accessories



× 1

Shade



× 1

Fixing belt



× 1

Coin battery

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