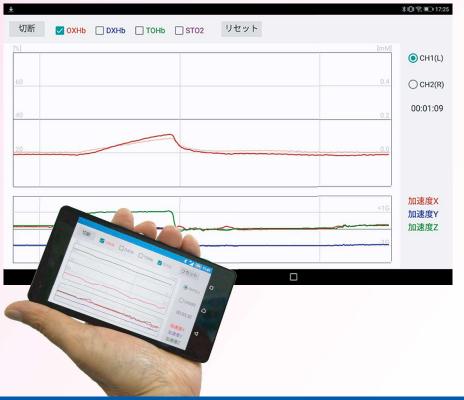
Brain Activity Monitor Hb134

2 measurement modes:

- Real-time mode
- Storage mode (only for Windows)

Data processing and event data synchronize function during simultaneous measurement,
Ultra light weight (100 g), 2 channels on frontal lobe, ...
rSO2(%),Oxy,Deoxy-Hb(mM)
Accelerometer(X,Y,Z)

monitoring screen on the tablet /Smartphone(android)





- · LED sensor: 2 channels (fixed)
- · Weight: 100g (Extremely light weighted)
- · Bandana: stretch fabrication, ASTEM original (made in Japan)
- Measurable items(each channel) oxygen saturation(rSO2:%), oxy-Hb, deoxy-Hb(mM)
- · Acceleration sensor (X, Y, Z) max=2G
- · Wireless device: Bluetooth-LE(MBN52832)
- · Sampling rate: Max 1 OHz (0.1 sec)
- · Operating System for measurement view: Windows and android



Hb13 Series Brain-NIRS System Wearable brain blood visualization device

Specifications

| Product Type | Hb134 | |
|---------------------|---|--|
| Measurement Method | NIRS (Near-Infrared Spectroscopy) Specially-Resolved Spectroscopy(SRS) Method | |
| Light Source | 2 Color LEDs peak wave length: 770 +/-10nm and 830 +/-10nm average power: ~1mW /LED | |
| Light Reception | Photo Diodes | |
| Sensor Board | Flexible printed circuits(FPC) Warning: repeated bending breaks circuit | |
| Number of Cannels | 2 channels(fixed) | |
| Output Data Format | CSV format. Measured data will be saved in the flash memory of the main unit during the storage mode. | |
| Sampling Rate | 0.1 / 0.2 / 0.5 / 1.0 second | |
| Measurement Items | Regional Saturated Oxygen (rSO2:%) | |
| | Change value (mM/L) - Oxygenated hemoglobin(Oxy-Hb), - Deoxygenated hemoglobin(Deoxy-Hb) | |
| | 3-axis acceleration (max:2G) | |
| Power Supply | 2 AA A dry batteries (1.5V * 2) | |
| Wireless Connection | Bluetooth-LE(MBN52832) Range Distance : 5m or less | |
| | Oversea Certifications CE for Europe, FCC for US, IC for Canada | |
| Measurement program | For windows : Hb134.exe For Android : Hb134.apk | |
| Available OS | Windows: Windows 8.1, Windows 10 Android: Android 5.0 or higher | |
| Weight | approx. 100g including 2 AAA dry batteries | |
| Event function | Event data synchronize after the measurement. | |

| Product Name | Product Code | Price(JPY) tax is included |
|---------------------------|--------------|-------------------------------|
| Brain Activity Monitor *) | Hb134 | 253,000 |
| Bandanas(L,M or M,S) | Hb-B | 4,400 |

- · In bright environments, it may not be possible to measure due to the influence of external light.
- The intervenes of a hair between a device and skin may disturb the measurement.
- \cdot Bandana size : M/L for men, M/S for women(Color : black only).
- · Bandana is consumable goods, and can be ordered separately as a spare.
- · All applications and programs are saved in the enclosed SD card.

Important Matter

- The device may not be used for medical purposes.

 Approval by an ethics committee is required for medical use.
- The development and sales of software connecting our devices can be possible when contact us beforehand, necessary information can be provided with no charge.
- The optical measuring and correction algorithm of this product is carried out by Astem Co., LTD. under the exclusive license of Shizuoka University owned technology.





Manufacturer/Distributor

Controlled medical devices marketing license holder Highly controlled medical devices marketing license holder rental business

Astem Co., Ltd.

Shimaya bldg. 3F, 2-14-6 Mizonokuchi Takatsu-ku, Kawasaki-City 213-0001, Japan

TEL +81-44-833-8453 FAX +81-44-833-8456

E mail: info@astem-jp.com(sales dept.)