

Brain Activity Monitor Hb134

2 measurement modes:

- Real-time mode
- Storage mode
- Data processing and event data synchronizing function during the simultaneous measurement with several devices
- Ultra-light weight (100 g)
- 2 channels on frontal lobe
- Measurement items: rSO₂ (%), Oxy-Hb (mM), Deoxy-Hb (mM), Acceleration (X, Y, Z)



Display screen image of the measurement program



- Sensor: 2 channels
- Weight: 100 g (Ultra-light weight)
- Astem original stretchy bandana (made in Japan)
- Measurement items: Regional Oxygen Saturation (rSO₂: %), Oxyhemoglobin (Oxy-Hb: mM), Deoxyhemoglobin (Deoxy-Hb: mM), Acceleration (X, Y, Z), max. 2G
- Sampling rate: Max. 10 Hz (0.1 sec)
- Measurement display program: Windows

Hb13 Series Brain-NIRS System

Specifications

| | |
|------------------------|---|
| Model | Hb134 |
| Measurement technology | NIRS (Near-infrared Spectroscopy), SRS (Spatially-Resolved Spectroscopy) |
| Light source | 2 colors of LEDs Average power: 1 mW or less Peak wavelength: 770±10 nm, 830±10 nm |
| Light detectors | Photodiodes |
| Sensor board | FPC (Flexible Printed Circuits) NOTE: Inappropriate handling may damage the circuits. |
| Number of channels | 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 measurement. |
| Sampling rate | 0.1, 0.2, 0.5, 1.0 (sec) |
| Measurement items | Regional Oxygen Saturation (rSO ₂ : %) Oxyhemoglobin (OxyHb: mM) Deoxyhemoglobin (DeoxyHb: mM) Triaxial acceleration (X, Y, Z, max. 2G) |
| Power Source | 2 AAA batteries, 3V The faster the sampling rate is, the faster the battery will be eaten up. |
| Wireless connection | Bluetooth-LE (MBN52832) Within 5 m Foreign certificates: CE (Europe), FCC (US), IC (Canada) |
| Flash memory capacity | 128 KB (in storage mode) |
| Measurement program | Windows Hb134.exe |
| Event file | Depends on the calendar of the host device. Data storing capacity for 6 months. |
| Supported OS | Windows 8.1, Windows 10 |
| Accessories | Bandana (2 sizes: L/M and M/S), SD card |
| Weight | Approx. 100 g (including batteries) |
| Event function | Event data synchronizing after the measurement. |



| Product name | Model | Price(JPY/unit) (tax included) |
|-----------------------------|-------|-----------------------------------|
| Brain Activity Monitor* | Hb134 | 253,000 |
| Bandana (2 sizes: L/M, M/S) | Hb-B | 4,400 |

*Includes accessories



- In a bright environment, it may not be possible to measure correctly due to the influence of external light.
- Attach the sensor firmly to the skin. Hair between the sensor and skin interferes the measurement.
- Bandanas are available in two sizes.
- The program and other information will be provided with SD card.

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NOTES

- This device cannot be used for medical treatment. If you wish to use it, please obtain approval from the ethics committee of the university or hospital.
- You can use this product to develop and sell the application. We will provide the necessary information free of charge, so please feel free to contact us.
- The light measurement and correction algorithms for this product are based on technology owned by Shizuoka University and implemented by us under an exclusive license.

Manufacturer/Distributor

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

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