



SenzeBand 2



The Neeuro SenzeBand 2 is a non-invasive device for capturing EEG (brainwaves) signals. It consists of 7 dry electrodes with five located on the prefrontal cortex and two on the sides. Together with Neeuro's machine learning algorithms, it interprets various mental states like attention, relaxation, mental workload, fatigue, stress and many more; providing insightful biofeedback for measurements used in real-time to drive interventions for various brain challenges.

Product Specifications



Power Button & LED Power Indicator

Visually represent battery and connection status



LED Activity Indicator

Visually represent mental states



Flexible Housing

Sweat and splash resistant



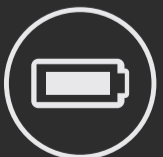
Connectivity

Bluetooth 5.0



Compatibility

Bluetooth 5.0 with iOS 13.0 or above, Android 8.0 or above, and Windows 10 or above



Battery

320mAh Li-ion polymer battery
Lifespan up to 6 hours
Type-C USB port charging



Weight

88g

Product Specifications



Sampling Rate

250Hz per channel
24-bit resolution



Motion Sensor

Accelerometer, gyroscope, and magnetometer



Interpret EEG Data

AI algorithms to interpret EEG data to mental states in real time



NeuroOS

Seamless integration with NeuroOS
Support 3rd party apps

SenzeBand 2 Technical Specifications

About

Product Name	SenzeBand 2
Model Number	SB-02

EEG Sensors

Number of Channels	4
Number of Electrodes	7 Proprietary elastomer sensors: 5 Forehead sensors (2 EEG, 1 Reference, 2 Biases) 2 Temporal lobe sensors (2 EEG)
Reference Electrode Position	Fpz
Channel Electrodes Positions	Fp1, Fp2, T3, T4
Sampling Rate	250 samples per second
EEG Resolution	24 bits, 0.02235µV
Input Range (Input Referred)	± 187.5mVpp
Impedance Measurement	Real-time sensors contact check

PPG Sensor

Measurement	IR and Red
Measuring Range	Heart rate: 0 – 255bpm SpO2: 0% - 100%
PPG Sampling	25Hz

Motion Sensor

Accelerometer	3-axis ±2g
Head Motion (Gyroscope + Magnetometer)	Output as Euler angles, -180° to 180°
Directions	N, S, E, W, NE, NS, SE, SW
Motion Sampling	100Hz

Electrical & Physical Characteristics

Battery	3.7V, 320mAh Li-ion polymer rechargeable battery
Battery Life (Typical)	Up to 6 hours of continuous use
Battery Charge Time	Around 2 hours
Operating Voltage	3.3V DC, ±2.5V AC
Input Ratings	5V $\overline{=}$ 1A
Power Saving	Automatic shut off when not in use after 10 minutes.
Dimensions	17.9cm (L) × 15.1cm (W) × 3.1cm (H)
	Elastic head strap: 8.5 – 14.3cm (Children) 14.0 – 25.3cm (Adult)
Weight	SenzeBand 2 (Battery included): 88g
Patented Design	Stylish, yet designed with high quality comfort. Made with quality materials to ensure the best experience. Module: Polycarbonate + ABS Inner band: Silicone rubber
Charging Port	Type-C USB

Communication

Connectivity	Bluetooth 5.0
App Compatibility	Bluetooth 5.0 with iOS 13.0 or above, Android 8.0 or above, and Windows 10 or above

Others

LED Activity Indicator	Customizable, visually represents mental states, among others.
Mental Performance	Ability to measure and track attention, mental workload, relaxation, and so much more.
Extensibility	Extensible to pair with various Neeuro applications or custom apps created using NeeuroOS.

Contact Us

We take pride in our ability to change the lives of the people and create business opportunities. Partner with us today!

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