



# 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



## PPG Sensor

Monitors heart rate and oxygen levels



## Forehead Electrodes

5 EEG sensors



## Temporal Lobe Electrodes

2 EEG sensors designed for better connectivity through hair



## 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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This product is not a medical device and should not be used to diagnose or treat any medical condition.

