

# Wearable electroencephalography (EEG) solutions

Medical-grade monitoring of the brain's electrical activity



# Unlock the brain with wearable EEG – anywhere, anytime!



At CSEM, we offer the technological building blocks to develop high sensitivity, low power EEG solutions that can capture a wide range of cognitive and clinical biomarkers, ensuring comprehensive insights into the brain's activity. Our technologies are designed with patient comfort in mind, resulting in high acceptance rates for long-term monitoring. They are discreet and comfortable to wear, and can be used anytime, anywhere. Whether your products target epilepsy, sleep disorders, neurofeedback, brain-computer interfaces, or cognitive performance, we can customize solutions to meet your needs. Additionally, our patented device and algorithm solutions give you an advantage in your next product development or clinical trial.

## Configure your EEG solution

We can help you tailor your EEG solution to your unique needs:

- Single-channel setups to high-density systems (up to 256-channel)
- Dry or gel electrodes
- Passive or active electrodes. If you opt for CSEM's patented cooperative sensors technology, active electrodes can be easily integrated into wearables with minimal wiring, ensuring cost effectiveness.

## Versatile analysis of EEG recordings

Thanks to our extensive experience in the analysis of EEG recordings, we can efficiently support you in processing and extracting cognitively and clinically-meaningful EEG biomarkers, whether in real-time or retrospectively. Our know-how includes:

- Time, frequency, and spatial domain algorithms
- AI-enhanced detection and classification
- Smart adaptive denoising

## We are here to support you

We are at your service for the design, integration, or manufacturing of your physiological monitoring devices using our licensable technologies and algorithms. Don't hesitate, connect with us today.

Contact us now

[csem.ch](https://www.csem.ch)

