Easleep Brain-Machine Interface Sleep Device

The Easleep Brain-Machine Interface Sleep Device seamlessly integrates brain-machine interface technology with the realm of sleep, introducing a pioneering concept known as CL-CES (Close-loop CES)*.

By leveraging precise electroencephalogram (EEG) detection techniques in conjunction with cutting-edge artificial intelligence algorithms, it deciphers the neural signal states of the brain during various sleep stages. This intelligently designed product harmonizes brainwave data detection and audio-visual intervention in addition to CES (Cranial Electrical Stimulation) , ultimately aiming to enhance users'sleep quality.

Clincical Research

We have conducted clinical studies with
3A hospitals in China and have proven that

90% of participants

Fall Asleep Faster ↑

Time taken to
fall asleep (min)

○ BBT + CES
○ Pink Noise + CES

	Before	7 Days	14 Days
BBT + CES	60min	40min	32min
Pink Noise + CES	57min	45min	33min

*The sample size involved in the clinical study was 60 people

*Data from "Clinical Research Project on Multifunctional Wearable Device Intervention in Insomnia Final Report"

Tmall
Best of
Latest Innovation
2023

Smart Sleep Awards
Best of
Smart Wearable Devices for Sleep
2023

iF Design
Awards
2024

CD Awards
2024

Neurofeedback Through Brainwave Collection

Real-time brainwave feedback + intelligent algorithm analysis.
Scientific assessment of brain neural activity.

Smart APP

Reset circadian rhythm via Day&Night mode and build your intelligent sleep system with Easleep APP.

Sleep Analysis Report

Multi-dimensional sleep analysis with clear indications of sleep quality.

B-CBTi Sleep Coaching Program

A non-pharmacological intervention for insomnia.
One-on-one advise by sleep therapists.

Customized Sleep Therapy

· Cranial Electrotherapy Stimulation Sleep Aid
· Binaural Beats Technology
· Adaptive Intelligent Sound Wave Adjustment

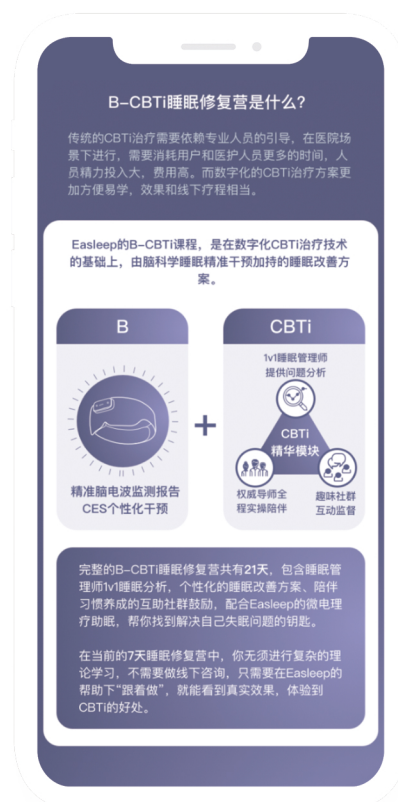# Easleep APP

Your Personal Sleep Therapist at Home

Better Bioclock [1]   Sleep Analysis   B-CBTi [2]

1. Better Bioclock refers to the application of day mode and night mode in Easleep APP. The day mode is a preset program which helps relieve anxiety, tension and other negative emotions, so as to boost energy in daytime; the night mode provides interventions that naturally guide your brain into a peaceful state, and eventually fall asleep faster.

2. B-CBTi is a cognitive behavioral therapy for insomia, integrating precise intervention of neroscience and digital CBTi treatment technology Comparing with traditional CBTi treatment (normally is delivered by experts in hospitals), B-CBTi is more convenient and easy to learn. Its effect is equivalent to the traditional CBTi.

BrainCo | **Zen**topia

Zentopia

A Smart System for Meditation and Sleep

Zentopia is a cutting-edge meditation and sleep system, rooted in neuroscience and psychology, that seamlessly combines smart wearable technology with an extensive selection of meditation courses and services.

Harnessing our advanced artificial intelligence-driven meditation algorithm and real-time NeuroMindfulness™ brain state feedback, Zentopia empowers users to precisely gauge their mental states, rapidly engage in mindfulness meditation, develop positive habits, enhance their ability to achieve deep relaxation efficiently, and ultimately, boost sleep quality.

Zentopia
A Smart System for Meditation and Sleep

Product development team from Harvard University and MIT

World's leading Brain-Computor Interface Technology

OxyZen Smart Headset

FocusZen Meditation Headband

- High-precision wearables
- Millisecond-level detection of EEG
- Real-time Multi-dimensional Physiological Data Analysis
- Combined with AI algorithm to accurately quantify the mindfulness state during practice

NeuroMindfulness™

Practice

Adjust-ment

98

Feedback

Under-standing

- Train using real-time feedback of brain state through sound alterations
- Timely adjustment of the mindfulness state
- Greatly improving the efficiency of practice

**Multi-dimensional Analysis**

98

- Multi-dimensional interpretation of mindfulness state
- Accurately reflect the physical and mental transformations induced by meditation
- Abundant high-quality mindfulness courses and music available
- Provide personalized guidance

BrainCo | Zentopia

APP

700+ professional stress-relief and meditation-based courses and music

4 Fundamental Core Scenarios
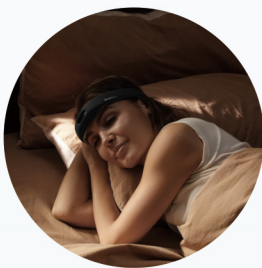
Sleep

Stress Relief

Work / Focus

Personal Growth

Sleep Better

We provide high-quality meditation-based sleep improvement contents. Utilizing real-time EEG data, the system can intelligently identify users' sleep states. Our AI algorithms dynamically adjust the music, promoting better and faster sleep.
By gathering real-time physiological indices and generating multi-dimensional sleep analysis reports, we provide a comprehensive insight into sleep quality.

Sleep Detection   **Sleep Analysis**

Stress Less

21-day
personalized plan

Master's
challenge

Quick
stress relief

Intelligent
recommendations

Timed
mindfulness

FocusZen Meditation Headband

Algorithms

Brain state detection
Meditation-based analysis

User Data Managemen
Backend for Business Partners

Customer service tracking
Customer plan adjustment
Evidence-based reporting

Appearance

Integrated design
Sense of technology

Product Lifespan

Durable

Materials

Metal electrode
TPU materia

OxyZen Smart Headset

Algorithms

Multi-dimensional physiological data collection
 (brainwaves, heart rate, blood oxygen)
Meditation-based analysis & sleep analysis

Appearance

Different colors of replaceable headband
Fashion

Materials

Woven fabric electrode
Lycra fabric

User Experience

Lightweight
Easy to use

Brain-Computer Interface
Open More Possibilities for Life

Founded in 2015, BrainCo is the first Chinese team incubated by Harvard Innovation Lab and has emerged as a global leader in non-invasive brain-computer interface (BCI) technology. BrainCo has now raised over 200 million in funding, positioning itself, along with Elon Musk's Neuralink, as one of the two largest companies in the global BCI landscape. BrainCo is also the first unicorn in China's BCI sector and has been recognized as a national-level "Little Giant" firm. The company has played a pivotal role in several national-level projects in the BCI domain and has been selected as a winning unit in the "Artificial Intelligence Medical Devices" initiative by the Ministry of Industry and Information.

Driven by the mission of "Unlocking more possibilities in life",BrainCo has, over the past decade, been committed to translating pioneering laboratory research into impactful real-world applications. Its research and development team is composed of leading scientists, with over 70% of core members being alumni of prestigious institutions such as Harvard, MIT, Tsinghua, and Peking University. In terms of intellectual property, BrainCo has filed over 600 patents in the BCI field, with nearly 400 patents granted, including over 200 core invention patents—placing it among the global leaders in BCI innovation.

Corporate Honor

2019

Time Magazine's Top 100 Best Inventions of the Year

2019

CES Innovation Awards

2020

Red Dot:Best of the Best

2021

Red Dot

2022.9

BrainCo Intelligent Dexterous Bionic Hand has received approval from the US Food and Drug Administration (FDA)

2023

Included in the Top 100 Global Digital Trade Industry Companies
(Ranked Top 25 in Digital Technology Trade Innovative Corporations)

2024.8

BrainCo has been selected as a winning unit in the "Artificial Intelligence Medical Devices" with the" Developmentof Brain-Computer Interface Intervention System fo Children with Autism"by the Ministry of Industry and Information.

2024.9

BrainCo has been Recognized as a national-level "Little Giant"firm