

Rejuvenate Your Brain with Vibroacoustic Stimulation!

Safe and effective brain healthcare device
Compact and low-frequency vibroacoustic technology
Clinically tested to boost memory and cognitive function
Proven to alleviate stress and enhance focus
User-friendly and highly portable



The Vibroacoustic Device
for Brain Wellness

HERZION™

30 minutes a day
for your cognitive health!

ariBio
The Bridge of Life Science

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Ultra-compact and low-frequency brain care device featuring patented vibroacoustic technology

Powered by innovation, Herzion helps with cognitive health, stress, psychological stability, depression, and more

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Memories are what life is made of

The smiles of your children, precious moments with your family, and memories of our loved ones come together to shape our lives.

Memories are what give our life richness and meaning.

Cognitive health is essential to enjoy a fulfilling life as we grow older.

Herzion is designed to help you preserve the longevity of your memories for a lasting future.



The Vibroacoustic Device for Brain Wellness

HERZION™

Keep Your Brain Healthy With Vibroacoustic Therapy!

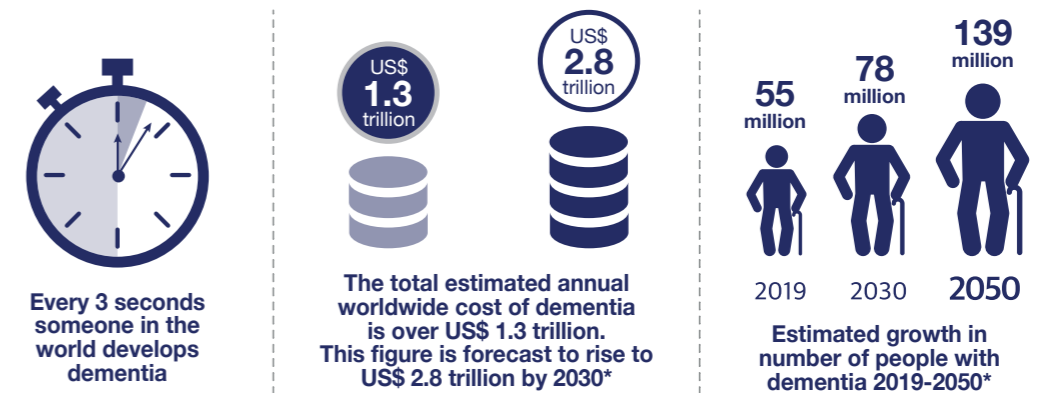


Every three seconds, someone is diagnosed with dementia

Cognitive health is essential for happiness in old age

Human lifespans have increased significantly, leading to the rise of centenarians. However, an estimated 57 million people worldwide live with dementia, and around 50 million have mild cognitive impairment—in fact, one person develops dementia every three seconds. It's not just about how long we live, but about how well we live during those years.

Global Dementia Prevalence and Associated Costs



*Source: *WHO Global status report 2021

Rising Alzheimer's Death Rates and Increased Lifetime Risk

BETWEEN 2000 AND 2021, DEATHS FROM HEART DISEASE HAVE **DECREASED 2.1%**



WHILE DEATHS FROM ALZHEIMER'S DISEASE HAVE **INCREASED 141%**

THE LIFETIME RISK FOR ALZHEIMER'S AT AGE 45 IS



1 in 5
FOR WOMEN

1 in 10
FOR MEN

*Source: 2024 ALZHEIMER'S DISEASE FACTS AND FIGURES, ALZHEIMER'S ASSOCIATION



Shifting paradigms in the treatment of Alzheimer's Disease

Overcome Neurodegeneration



Creating a world free from dementia

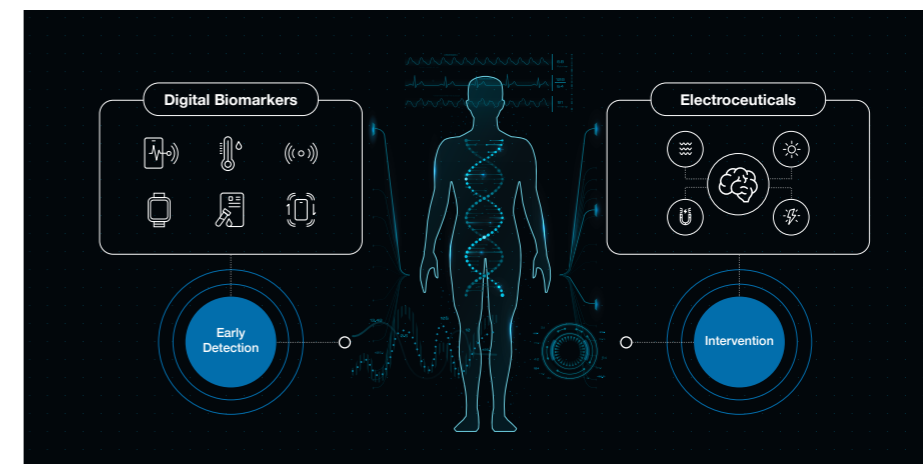
Global Phase 3 clinical trial for the world's first multi-mechanism dementia treatment in progress

AriBio has been dedicated to researching dementia treatments for over a decade. It is currently conducting a global Phase 3 clinical trial (Polaris AD) for AR1001, the first multi-mechanism treatment for Alzheimer's disease, involving 1,150 patients across 11 countries. In addition to AR1001, the company has a pipeline focused on various neurodegenerative diseases and is committed to advancing new treatments for dementia.



Digital healthcare solutions for early dementia detection and cognitive intervention therapy

AriBio is at the forefront of digital healthcare, utilizing its extensive know-how and expertise in dementia care. This innovative approach employs digital tools to facilitate early detection of dementia and offer rapid cognitive intervention therapies. With "Herzion," AriBio is leading the way in digital healthcare for dementia care.





When my memories fade, so does my life

The foundation of happiness in later life is rooted in our health, with cognitive health being a crucial factor that influences both dignity and happiness.

Herzion is an ultra-compact and low-frequency brain care device powered by vibroacoustic technology and designed to support your cognitive health while improving the mental and physical well-being of family members dealing with stress, anxiety, and depression.



The Vibroacoustic Device for Brain Wellness

HERZION™

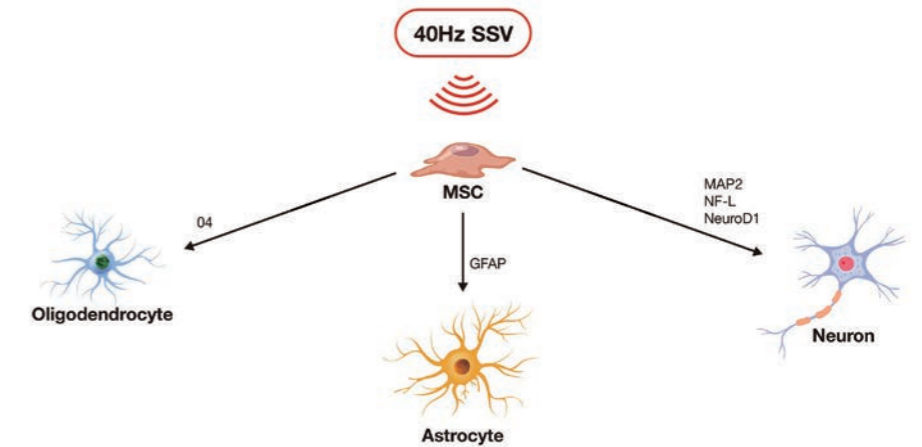
For those you love,
protect your brain health
with Herzion.



Herzion
It's special
01

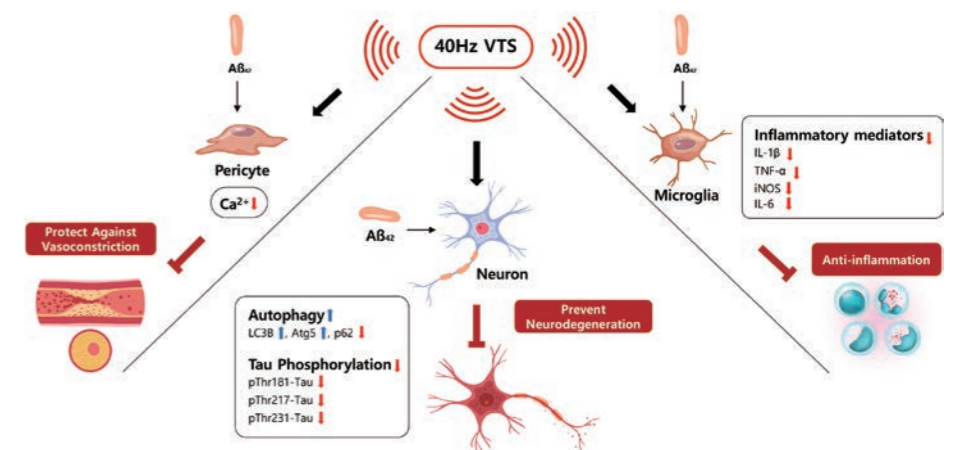
5,280 hours dedicated to research and development
A vibroacoustic device for brain
wellness is finally here

We have secured a groundbreaking patented technology that utilizes low-frequency vibration stimulation to promote neural cell differentiation and contribute to the repair and regeneration of damaged neural tissues. Our research team dedicated a total of 5,280 hours to research and development with the support and consultation of over 50 specialized institutions. This effort culminated in the development of Herzion, a low-frequency vibroacoustic device designed to enhance cognitive function.



*Source: Cho, Hyunjin, et al. "Neural differentiation of umbilical cord mesenchymal stem cells by sub-sonic vibration." Life sciences 90.15-16 (2012): 591-599.

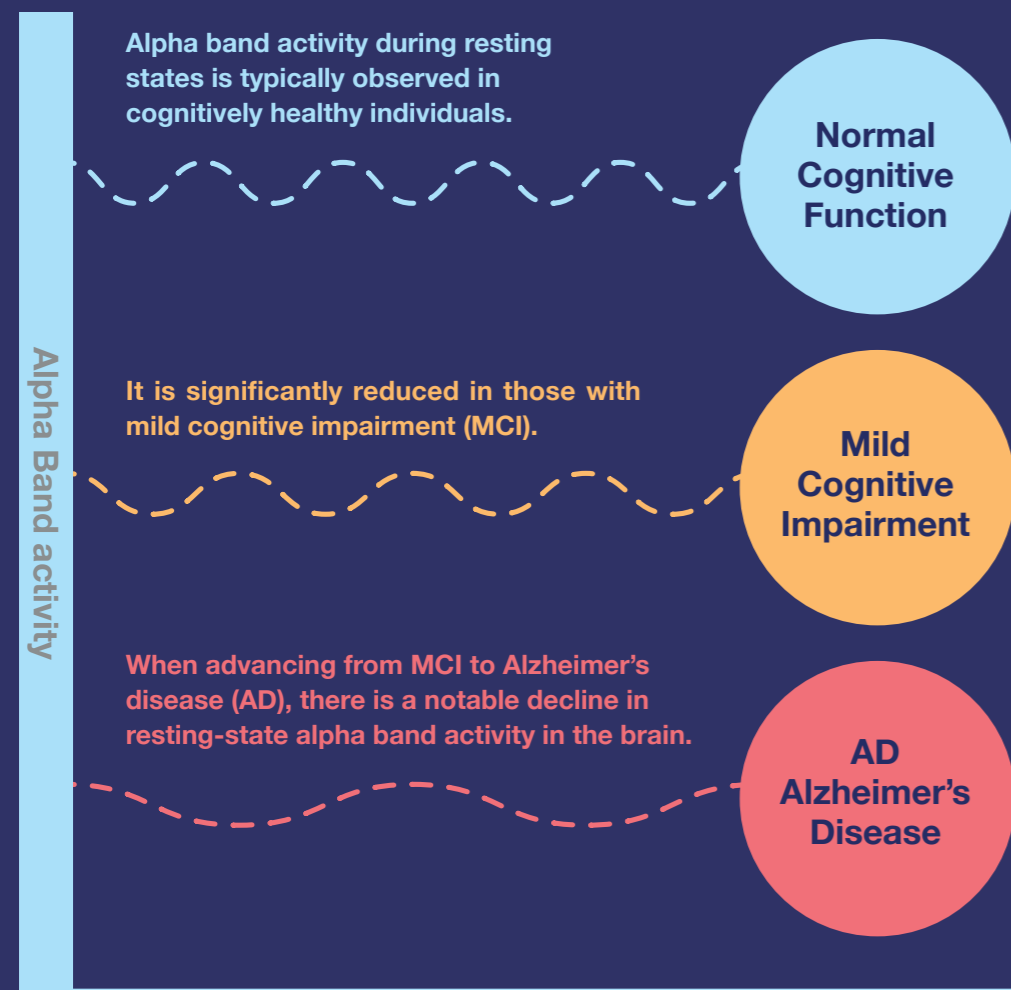
Low-frequency vibrotactile stimulation (VTS), as demonstrated by our scientific research, has shown potential as a therapeutic approach for Alzheimer's disease. Our findings reveal that VTS mitigates pericyte damage caused by Aβ, thereby preventing vasoconstriction, protects neurons from Aβ-induced damage to prevent neurodegeneration, and suppresses inflammatory responses in microglia, highlighting its anti-inflammatory effects.



*Source: Shin, Chang-Ho, et al. "Vibrotactile stimulation at 40 Hz inhibits Aβ-induced changes in SH-SY5Y, BV2 cells, and pericytes." Brain Research Bulletin 220 (2025): 111138.

Does increased alpha band benefit cognitive health?

The alpha band is a type of brainwave characterized by a frequency between 8 to 12 Hz, acting as a bridge between the subconscious and conscious mind. It typically emerges during periods of rest, relaxation, and calm states of both mind and body, while its presence diminishes during anxiety, stress, brain injury, or illness. Therefore, sustaining and enhancing alpha band activity within its normal range is vital for promoting cognitive health.



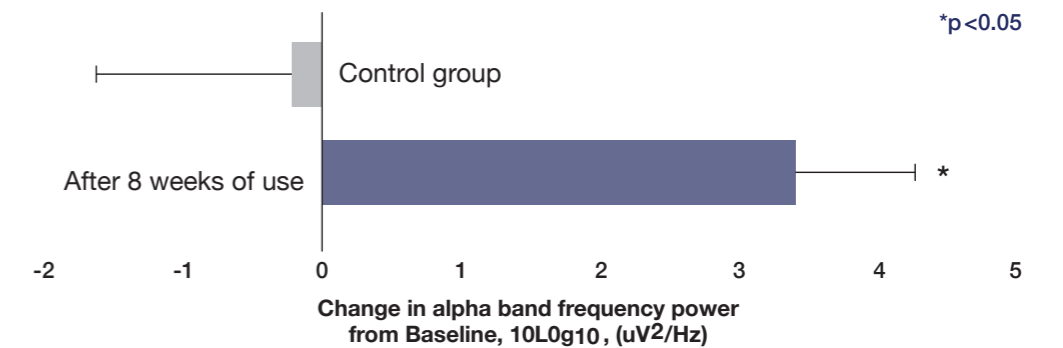
1. Adler, G., S. Brassen, and A. Jajcevic, EEG coherence in Alzheimer's dementia. *Journal of neural transmission*, 2003. 110: p. 1051-1058.
2. Jeong, J., EEG dynamics in patients with Alzheimer's disease. *Clinical neurophysiology*, 2004. 115(7): p. 1490-1505.
3. Lejko, N., et al., Alpha power and functional connectivity in cognitive decline: a systematic review and meta-analysis. *Journal of Alzheimer's disease*, 2020. 78(3): p. 1047-1088.
4. Locatelli, T., et al., EEG coherence in Alzheimer's disease. *Electroencephalography and clinical neurophysiology*, 1998. 106(3): p. 229-237.
5. Meghdadi, A.H., et al., Resting state EEG biomarkers of cognitive decline associated with Alzheimer's disease and mild cognitive impairment. *PloS one*, 2021. 16(2): p. e0244180.

Herzion
It's special
02

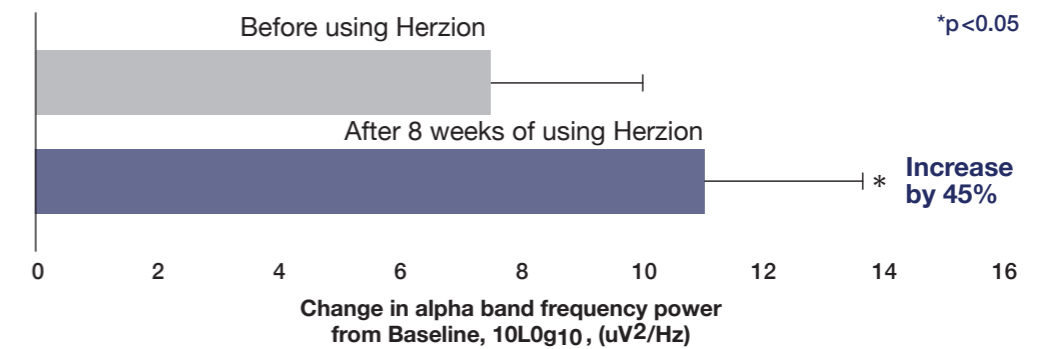
Improve your alpha band activity & CERAD-K score Brain device for your cognitive health

In clinical trials, Herzion demonstrated a 45% increase in alpha band activity and a 109% improvement in the CERAD-K score after 8 weeks of use. These results suggest that the device effectively supports cognitive health, enhancing memory and concentration and reducing mental fatigue.

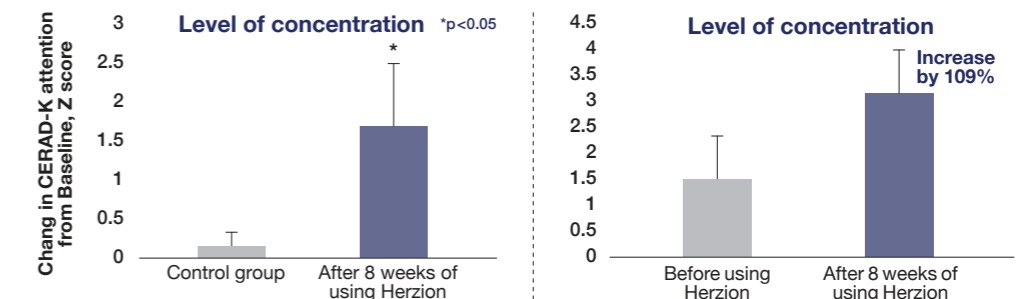
Change in alpha band activity after 8 weeks of use



Change in alpha band frequency power



Change in the level of attention after 8 weeks of use



* This product is a wellness device, and it is not intended for medical use. The benefits may vary from individual to individual.

Study Period: December 2023 - May 2024

Study Subjects: 30 healthy seniors aged 55 to 85

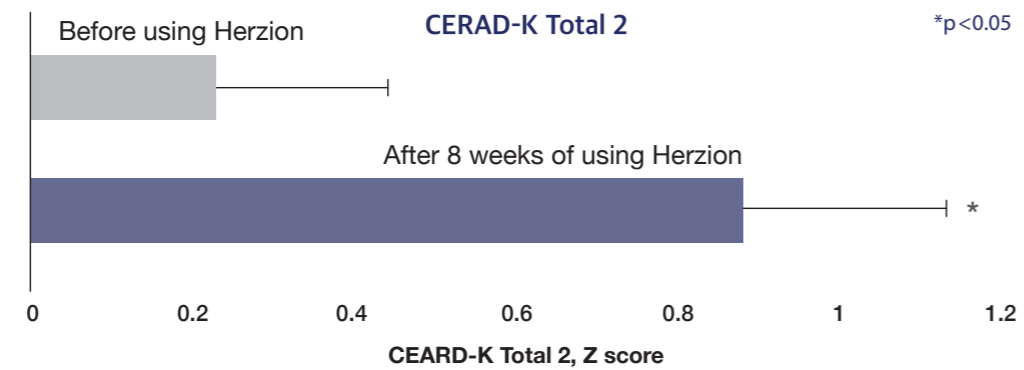
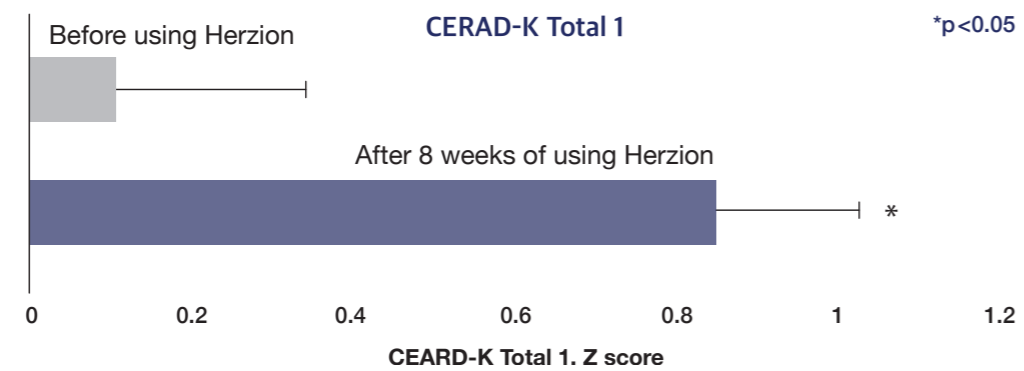
Clinical Test Institute: GARD Cohort Research Center

IRB Reviewer: Asian Dementia Research Foundation

Improve your CERAD-K TS1 & TS2 scores A brain device for your cognitive health

After 8 weeks of using Herzian, both the CERAD-K TS1 and TS2 scores showed significant improvement. These clinical results suggest that the device effectively enhances the memory, learning capabilities, and daily activities of its users.

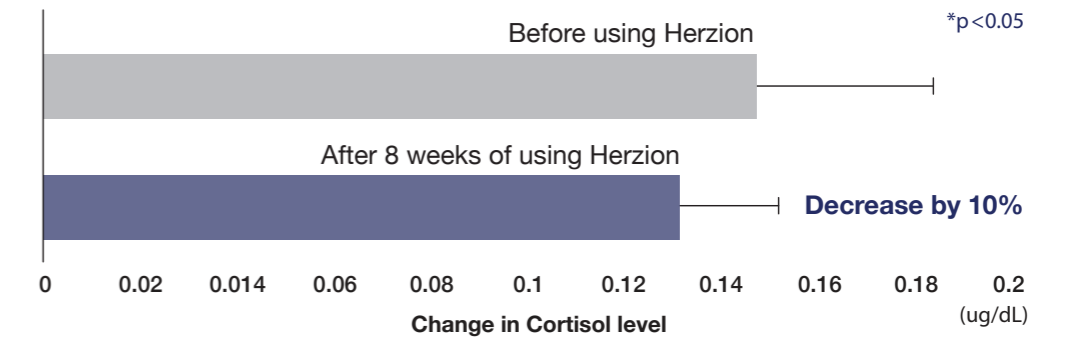
CERAD- K Total score



Reduce the level of cortisol, the stress hormone A brain device for stress management

After 8 weeks of using Herzian, the results of the salivary cortisol test indicated an average decrease in cortisol levels of approximately 10%. This suggests that the device may be effective in helping its users manage their stress.

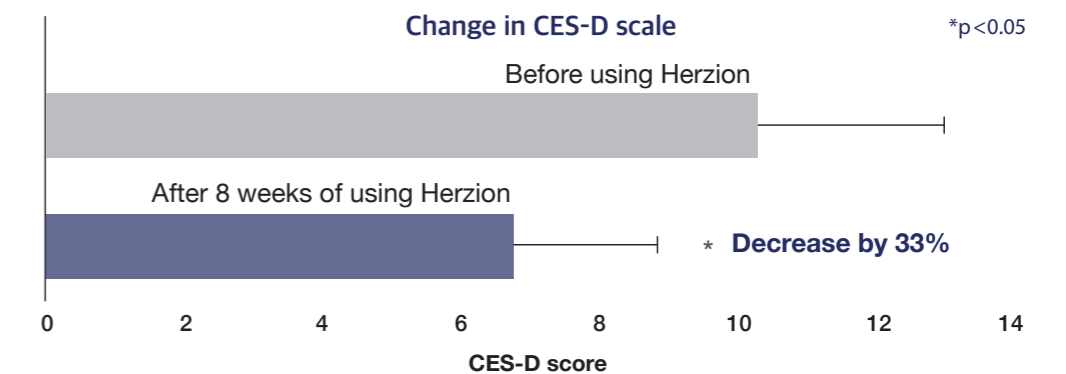
Stress Hormone (Cortisol) Test



Reduce your depression scale score A brain device for your mental health

After 8 weeks of using Herzian, the results of the cortisol saliva test indicated an average decrease in cortisol levels of approximately 10%. This suggests that the device may be effective in helping its users manage their stress.

CES-D (Center for Epidemiological Studies-Depression) Test



What makes Herzion special?

After years of research and numerous challenges, we are proud to introduce Herzion designed to enhance the effectiveness and convenience of cognitive healthcare. Get to know the one-of-a-kind Herzion!



01. Safety

Completely safe for long-term use! Ultra-compact and low-frequency vibroacoustic stimulation device

Powered by low-frequency vibroacoustic technology, Herzion offers a safe and non-invasive approach to brain stimulation. Unlike traditional methods such as electrical, electromagnetic, ultrasound, or mechanical stimulation, this low-frequency wave produces natural vibrations we experience in everyday life, ensuring that it is gentle on the body and suitable for long-term use.



03. Effectiveness

Ultra-compact vibroacoustic module directly stimulates your brain!

Herzion is designed to be worn on the head, utilizing a compact vibroacoustic module to stimulate the frontal and temporal lobes of the brain, effectively supporting your cognitive health.



02. Design

Ergonomically designed headband style to ensure a comfortable fit!

Herzion is ergonomically designed, thanks to years of research and testing. It comfortably fits different head shapes and sizes, ensuring reliable use for everyone. The unique design has been officially registered with the Korean Intellectual Property Office, highlighting its originality and innovation.



04. Convenience

Just 30 minutes a day for your cognitive health!

It requires just 15 minutes a session, 30 minutes a day. You can wear it while meditating, listening to music, reading, cleaning, or watching TV. The device allows you to manage your cognitive health without feeling like a chore.

Produced at a GMP facility for medical devices

Herzion is produced in a facility certified for Good Manufacturing Practices (GMP) to guarantee the highest quality. You can trust that it is manufactured under rigorous quality control standards.

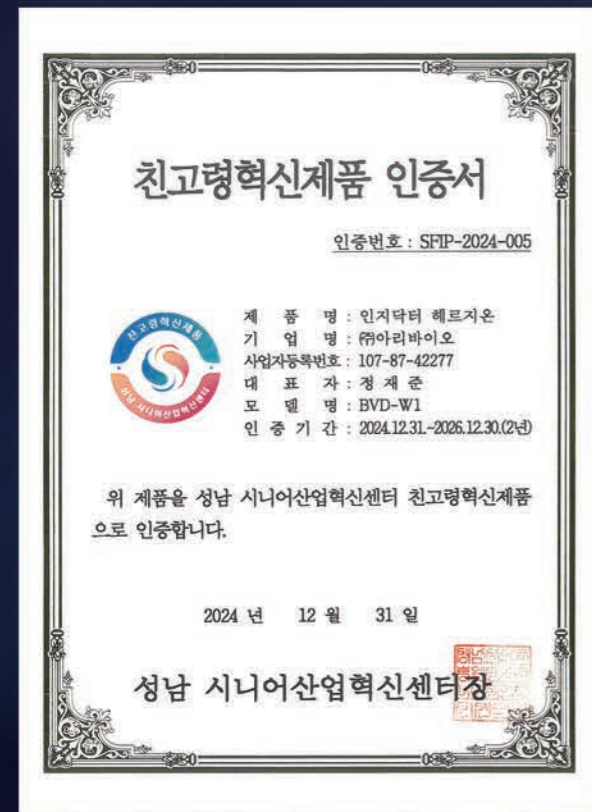
GMP Certification



Recognized for Excellence with Senior Friendly Innovative Product Certification and Awards

Herzion has been certified as a Senior Friendly Innovative Product (SFIP) by a leading senior industry innovation center in Seongnam, South Korea. It has also received multiple awards in recognition of its innovation and technological excellence.

Senior Friendly Innovative Product (SFIP)



Senior Friendly Innovative Product Certification number : **SFIP-2024-005**

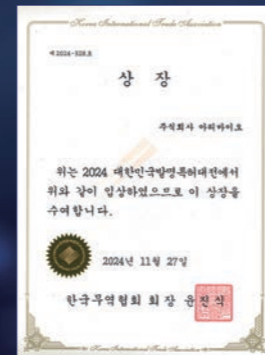
Award



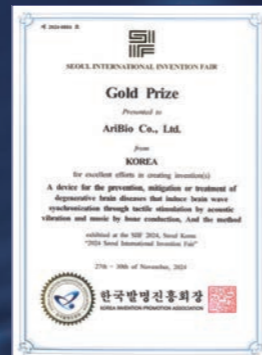
World Invention Innovation Contest



World Invention Innovation Contest (Gold Medal)



Korea Invention Patent Exhibition



Seoul International Invention Fair (Gold Prize)



Seoul International Invention Fair (Special Prize)



Letter for Special Prize (THEKNOWHOW)

Elevating Quality with Certifications and Intellectual Property

Herzion has achieved certifications such as CE, CB, CE RoHS, and KC, and holds multiple intellectual property rights for its innovative technology.

Certification



Conformité Européenne



Certification Bodies



Restriction of Hazardous Substances Directive



Korea Certification

Intellectual Property



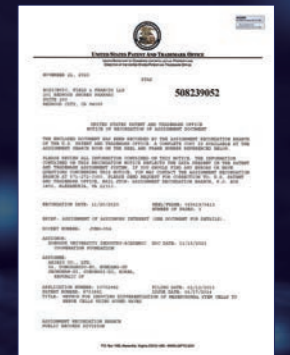
Certificate of Patent



Certificate of Patent



Certificate of Patent



Certificate of Patent



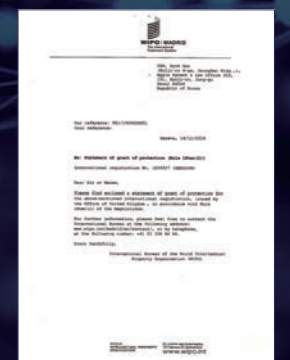
Certificate of Design Registration



Certificate of Trademark Registration



Certificate of Trademark Registration



Certificate of Trademark Registration



Enjoy a variety of content with the official Herzion app!

Just 30 minutes a day

Elevate your cognitive health with Herzion!

By regularly using Herzion, you can enhance both your cognitive and mental health. Use it twice a day for 15 minutes each session. It will help you save your precious memories and find happiness in everyday life.

How to connect to the app

Download the Herzion app and connect to your device for access to useful content and services.

1. How to install the app

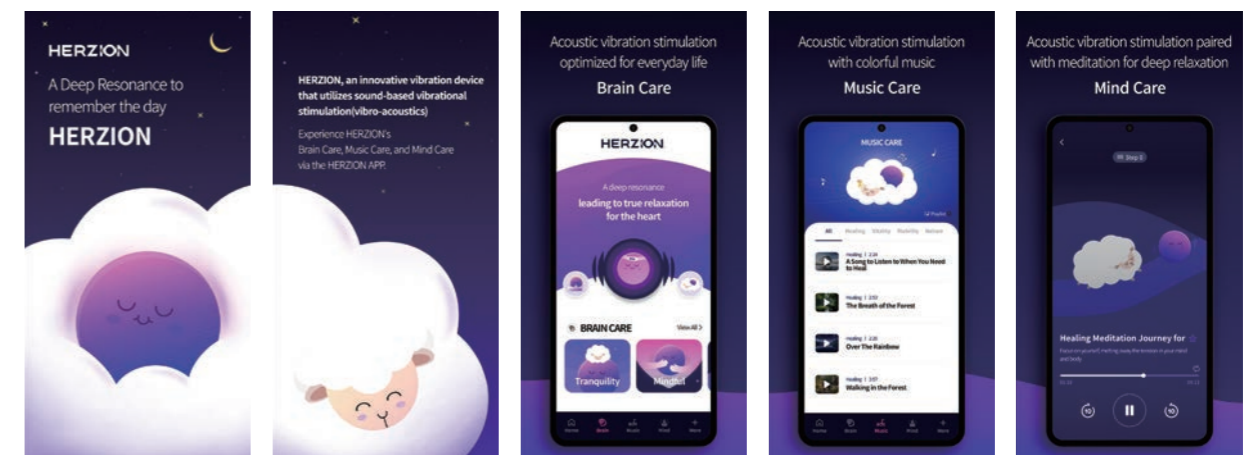
- ① Download the “Herzion” app from the App Store or Google Play Store.

*Please note that data charges may apply when downloading apps or using services on 3G/LTE networks, so we recommend using Wi-Fi for a better experience.



2. How to run the app

- ① Connect the device via Bluetooth.
- ② Use the app to get access to vibroacoustic content.



*Refer to the user guide for detailed instructions on how to use the device.