eeg brain scanner Just 10 min.

A NEW INNOVATION IN QEEG ANALYSIS

Experience innovative AI brain scanning & diagnostics!

iMediSync

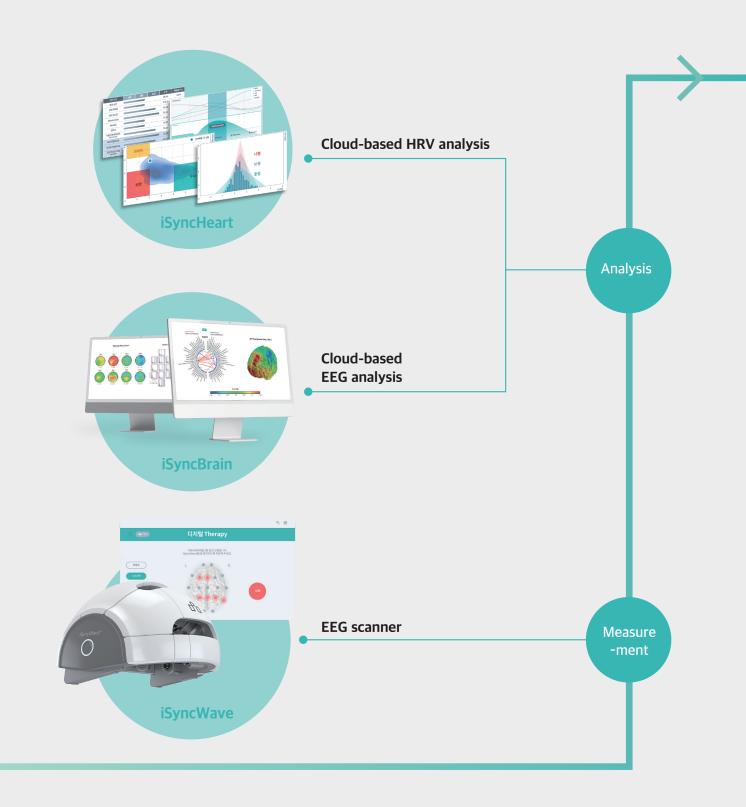
iSyncWave®





iMediSync Solution

iMediSync made it possible to provide diagnosis and care services – anytime and anywhere – for neuropsychiatric disorders by combining hardware and software to build an integrated AI telemedicine platform ecosystem. This all in one solution provides everything from measurement analysis and diagnosis to treatment and prescription.

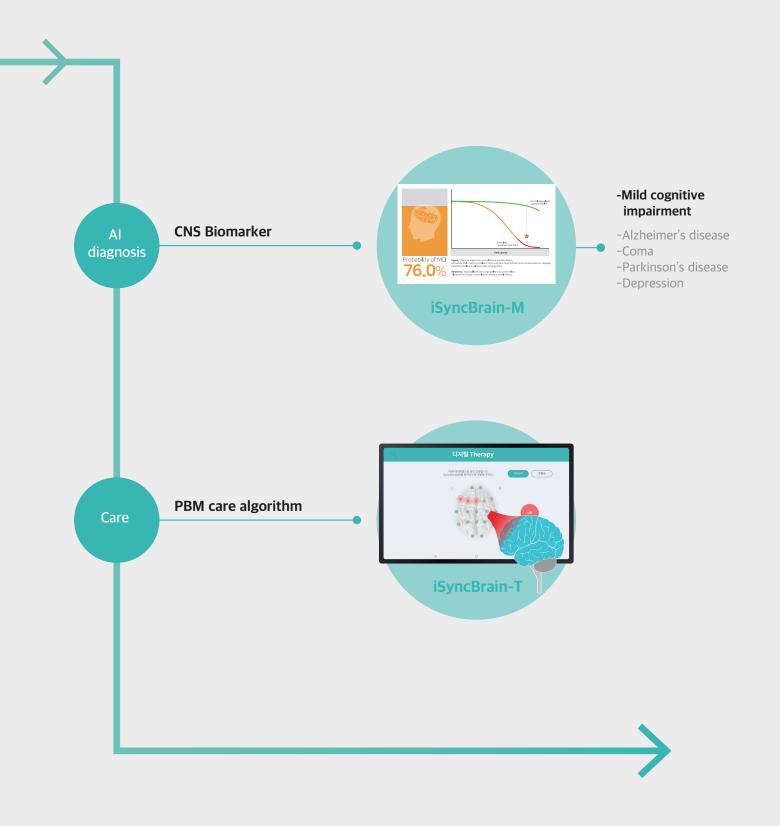


FDA application number

iSyncWave : K220056 iSyncBrain-C : K222838

Trademark application number

iSyncWave : 21-2051 iSyncBrain-C : 20-4800 iSyncBrain-MCI : 20-750 iSyncHeart : 20-4567



iSyncWave

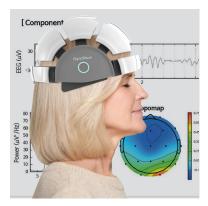
Non-stop AI brain scanner that implements measurement, analysis, and care at a time

iSyncWave is an AI brain scanner that helps determine whether there is an abnormality in brain function. It also analyzes the results of the autonomic nervous system, cardiovascular disease risk, depression, anxiety, and stress through simultaneously measuring the Heart Rate Variability (HRV) and EEG. The LED photo-stimulator mounted on iSyncWave generates near-infrared rays of 850nm. It is known to be effective in restoring brain function in patients with stroke, cognitive impairment, Parkinson's disease, and traumatic brain injury by promoting ATP production in brain cells and cerebral blood flow.

*FDA 510K cleared



Features



100% Dry EEG measurement

A gel-free dry headset allows the equipment to be worn by oneself and does not require cleaning after removal.



Measurement and analysis in just 10 minutes

Provides fast analysis and results through AI programs installed on the cloud.



Anyone can wear it

Adjustable size fits any age / sex head while maintaining the 10/20 system.



Excellent signal quality

Electrodes coated with Ag/AgCl produces excellent conductivity for high-quality signal measurement.



Provision of AI analysis Summary Report

Provides results of 'Brain Health' through 3D mapping and 'Sensitivity Analysis and Heart Health' through HRV measurement.



Provision of Heart Rate Variability (HRV)

Simultaneous measurement of EEG and heart rate variability provides results of autonomic nerve, depression, anxiety, and stress analysis.

* FDA under review



The world's first EEG measurement and LED photostimulation care function

Ability to select frequency and activated areas according to EEG measurement results.

iSyncBrain

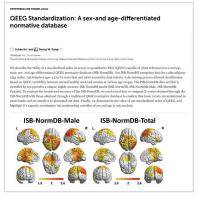
AI automatic EEG analysis solution

iSyncBrain is a cloud AI-guided analytics system for EEG/HRV biosignals.

iMediSync developed the first-ever age/sex-classified healthy EEG norm DB and is currently developing an EEG-based brain health market with patented automatic EEG denoising, amICA, and deep learning on the cloud platform. iMediSync cloud service provides brain health reports and amnestic MCI early screening biomarker reports.



Features



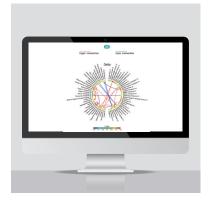
The world's only age/sex differentiated QEEG DB

Comprised of 1,300 healthy people data derived from the National Reference EEG DB project by the Ministry of Trade, Industry, and Energy.



Provision of tailored remote care service

Measure and monitor EEG anytime and anywhere before and after care.



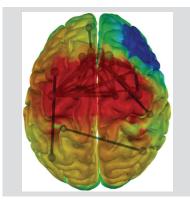
Visual automatic EEG analysis reports

Provides denoised results by applying an automatic noise removal algorithm that combines deep learning and ICA.



Artificial Intelligence Diagnosis Support Solution

Classify 'Mild Cognitive Impairment' using pre-dementia detecting machine learning model.





EEG signal processing technology using cloud server

QEEG main indicator values are generated by uploaded EEG signals that are automatically processed through the analysis engine.

Indicator of total mental care solution

EEG-biomarker, the basis of diagnostic support, enables clinical trials for research.

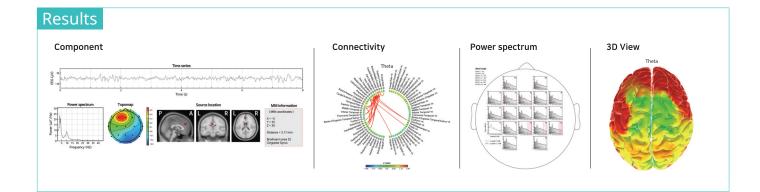


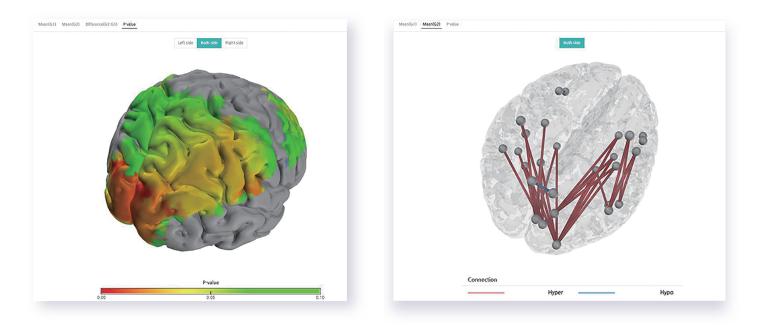
Academic and research support

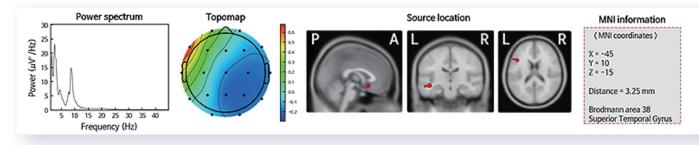
Provides support and analysis for research and academia.

iSyncBrain M&C series

sLORETA 3D source level power and connectivity mapping with AMICA components.







- ✓ Maximize time saving with AI denoising for clinicians and for researchers
- ✓ First-ever age/sex classified norm comparison
- ✓ 3D rendering of voxel power and ROI connectivity with each frequency band, respectively

Visualized EEG analysis

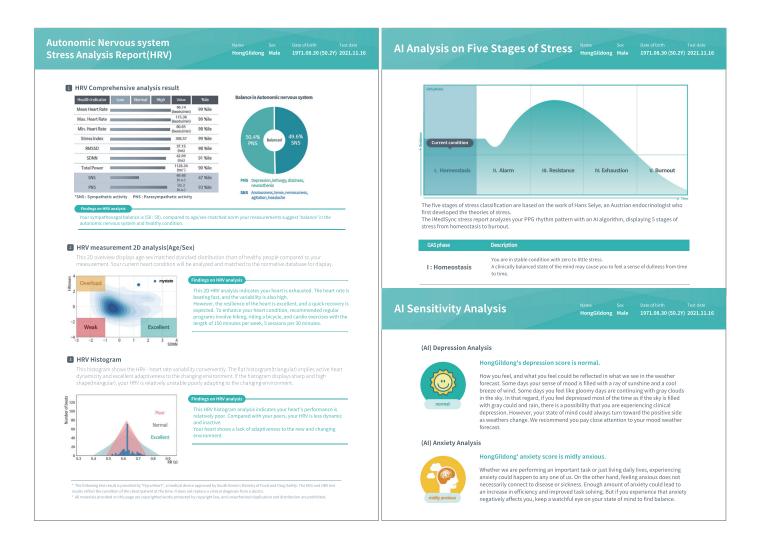
sLORETA 3D source level power and connectivity mapping with AMICA components.



- ✓ App connected web interface for maximum usability and efficiency
- Visualized brain mapping report
- Major brain disease biomarker report

iSyncHeart

Beyond conventional HRV analytics, innovative biomarker developments including stress, depression, anxiety and major brain diseases can be applied to various clinical circumstances.



Cloud-based conveniences

- ✓ Age and sex classified norm-based analytics
- HRV parameters
- Sympathovagal balances
- Emotion analysis
- ✓ GAS phase stress analysis

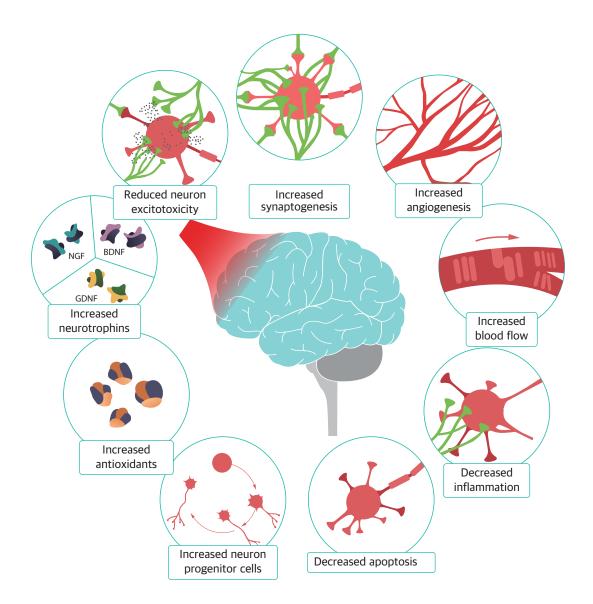
*GAS (General Adaptive Syndrome): The body and mind go through the stages of alarm, resistance, exhaustion, and burnout when exposed to continuous stress.

Light Therapy

Photobiomodulation, PBM

Accelerates cell and tissue regeneration

iSyncWave provides QEEG guided personalized light therapy(PBM) through built-in LEDs. The optimum targeting PBM for Alzheimer's, strokes, traumatic brain injuries is under development. Meanwhile, PBM safety and efficacy have been shown in US Navy and Harvard Medical School studies.



Reference : Salehpour, Farzad, et al. "Brain photobiomodulation therapy: a narrative review." Molecular neurobiology 55.8 (2018): 6601-6636.

%Near-Infrared LED light penetrates skull and brain tissues 6 times higher than red LED.

Contact Us

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