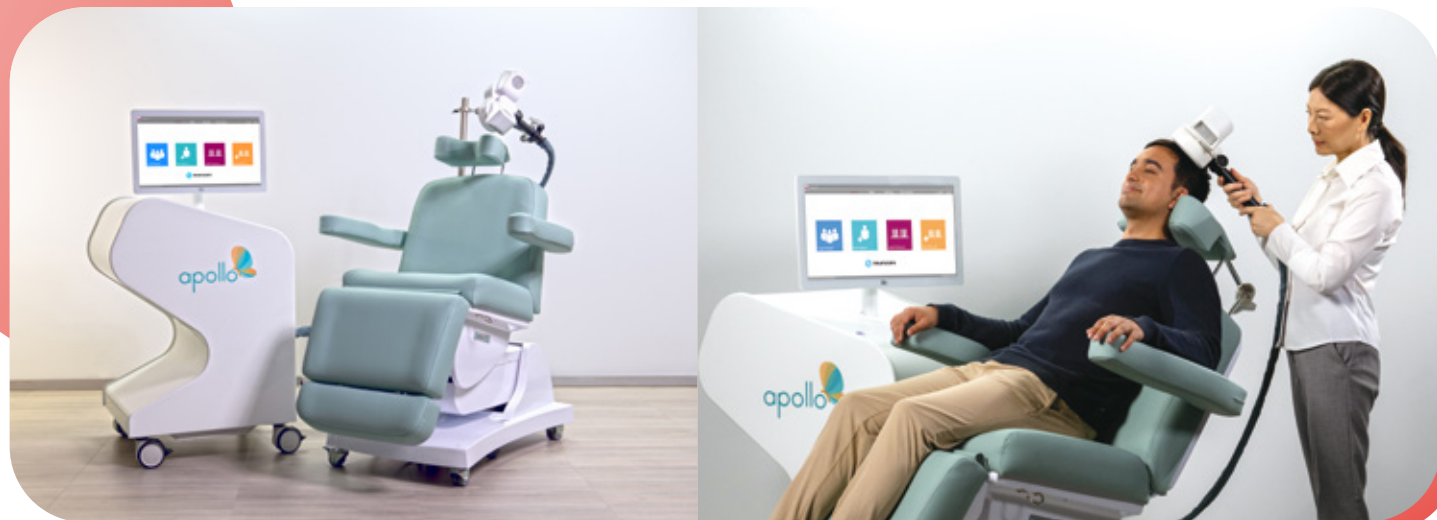


Apollo

Transcranial Magnetic Stimulation Therapy System

Origin: Germany
Certificate: FDA, MDD Certificate of Listing No. 251681



Features

- Determine the motor threshold by using a powerful mathematical algorithm
- Coil positioning stand for fully flexibility
- Performs all standard protocol types (rTMS, continuousTMS, trains, theta burst)
- Frequency up to 100 Hz theta burst possible
- No decrease of pulse intensity during stimulation
- Patented safety limit features to ensure safe operation
- Stable efficiently pulse length of 160 μ s
- Intuitive and powerful control options
- No limit to pulse output of coils

Specifications

Maximum stimulation frequency	100w Hz Theta Burst
Maximum intensity	100% intensity @ 30 Hz 70% intensity @ 100 Hz Theta burst
Dimensions (L x W x H)	65 cm x 120 cm x 135 cm
Mains voltage	230 VAC, 50 Hz

Treatment Schedule

Between 4 and 6 week of treatment



19-37 minutes
treatment
duration



4-6 weeks in a
row 5 days per
week



Patient is awake
and alert during
treatment



Daily routine
activity possible
after treatment



⬇ Apollo TMS Software

— Integrated to Perfectly Control your Apollo System

- The Apollo TMS software makes daily use and running of TMS easy, safe and personalized
- HIPAA-compliant, encrypted patient database, and PDF-reporting for therapy tracking



— Semi-automatic Determination of Motor Threshold

- Using a mathematically powerful PEST algorithm, the Stimware helps you determine the motor threshold (MT)
- Through intuitive and user-friendly software the user simply tells the system when the hand has twitched. After then the pulses are automatically emitted, intensities are automatically adjusted and the MT returned after approximately one minute

— Apollo TMS Stimware Specifications

- Setup, storage and recall of patient data and connected stimulation settings
- Possible to set continuous protocols, train protocols and theta burst protocols, and load protocols from a text file
- Optional fully automated closed-loop solution using a maximum-likelihood strategy (PEST method)
- Display of EMG-signal with optional EMG device
- Automatic verification of the safety criteria to facilitate safe stimulation; audio beep before stimulation possible



— Wireless EMG Option With Automatic MT Determination

- Improve MT determination accuracy and efficiency
- The measurements are evaluated and displayed in the stimware
- Fully integrated, closed loop solution for quickly and accurately determining motor threshold
- A “Maximum-Likelihood” strategy is employed, where the three previous EMG responses are portrayed in a waterfall diagram
- A PDF report can be generated which entails the specifics of the determination

Apollo Light

Fully-customizable & User-friendly TMS Therapy System

Origin: Germany



Apollo Light is a simple-to-use ambulant treatment system for a wide range of applications in TMS. Touch screen “APP-like” software and many other ergonomic features guarantee an easy and comfortable treatment.

Features

- PowerMAG 30 / 100 stimulation unit, the powerful and reliable motor of the system
- The PowerMAG 30 is restricted to max 30 Hz, while the PowerMAG 100 can perform theta burst stimulation with up to 100 Hz
- TMSTherapy software on a touch all-in-one PC, including patient and treatment data management
- High performance stimulation coil “pCool” or “aCool”
- Mobile system cart with lockable wheels
- Coil positioning stand for full flexibility

Specifications

Maximum stimulation frequency	30 Hz / 100 Hz
Maximum intensity	100% stimulation intensity over full frequency range / 100% intensity @ 30 Hz and 70% intensity @ 100 Hz Theta burst
Dimensions (L x W x H)	Height 112 cm, Width 60 cm, Depth 70 cm

Chairs: Colour Options

— Treatment Chair (Mechanical)

- Medical grade treatment chair with optimal TMS features
- Model GREINER carryLine cross
- Seat height 51 cm, lockable wheels
- Short backrest with adjustable and detachable headrest-roll
- Armrests may be tilted for easy entry and exit
- Medical device
- Includes pole for coil positioning
- Available in 19 different colourways



— Treatment Lounger (Electrical)

- TMS Treatment Lounger with 4 electric motors to adjust position via remote control
- Dedicated TMS Head Rest
- Adjustable head rest, foot rest and arm rests
- Includes Treatment Chair Positioning Pole for coil holder
- Available in over 30 different colors









PowerMAG Therapy

Transcranial Magnetic Stimulation

Origin: Germany
Certificate: FDA, MDD Certificate of Listing No. 251811

The PowerMAG series open up new application possibilities in therapy, diagnosis and research. Surpassing every expectation placed on a highly developed medical device, PowerMAG belongs to the top class of magnetic stimulators.



Stimulators	PowerMAG lab 30	PowerMAG lab 100	PowerMAG EEG 30	PowerMAG EEG 100	PowerMAG ppTMS	PowerMAG QPS
						
Characteristic	Economic Research	Basic Research with TBS	EEG Research	Advanced Real-Time EEG	All In One	qTBS Stimulation
Stimulation Frequency (Hz)	30	100	30	100	100	100 (666 in Bursts)
Waveforms	Half/Full	Half/Full	Half/Full	Half/Full	Full	Full
rTMS	+	+	+	+	+	+
TBS		+		+	+	+
Short Interval ppTMS					+	
QPS						+
Coil Current Invertable	+	+	+	+	+	+
Trigger In/Out	+	+	+	+	+	+
EEG Compatible			+	+	+	+
EMG Compatible	+	+	+	+	+	+
Analog/Digital Control	+	+	+	+	+	+

Features

- OFCA approved
- Made in Germany
- Simple and intuitive design
- Invertible coil current within the stimulator
- Accurate control of intensity in graduations of 0.5% enabling precise stimulation
- Long durability: 2,000,000 discharges at 100% intensity
- High-performance stimulator:
 - Half and full sine as single pulse
 - Repetition rate of up to 30Hz at 100% output
 - Maximum repetition rate 100Hz at 70% output



Coil Control Clip

- The delivery of pulses and increasing/decreasing the intensity
- Other functions of the stimware can also be controlled, such as starting the Auto-MT function
- This product only works with Stimware version 2 or higher, not with older versions and not with PowerMAG Control

Coils

PowerMAG stimulation coils have been developed continuously together with our frequent users, resulting in coils with highest quality, accuracy and efficiency. By these means the very best outcome has been achieved, both in effectiveness and usability of the coils. Application-oriented coil geometries and the electromagnetic properties draw on all the potentials of the PowerMAG TMS system.

Physiological efficiency:

- Variety of stimulation
- Coils for specific
- Applications

Maximum comfort:

- Less coil heating and audible noise

Precision:

- Extraordinary temporal and spatial resolution

Specifications

	Double Coil PMD70-pCool (510565)	Double Coil HANS-aCool (510580)	Double Coil PMD70 (510519)	Double Coil PMD70- pCool-SHAM (510551)	Double Coil PMD25 decentral (510523)	Double Coil PMD45-EGG (510533)	Round Coil PMR110 (510522)
							
Pulse Length	160µs	160µs	170 µs	160µs	170µs	165µs	170µs
Magnetic field	approx. 2.0Tesla maximum	approx. 2.0Tesla maximum	approx. 2.0Tesla maximum	approx. 0.4Tesla maximum	approx. 4.0Tesla maximum	approx. 2.5Tesla maximum	approx. 2.2Tesla maximum
Dimensions	Inner diameter 20mm, outer diameter 90mm	Inner diameter 20mm, outer diameter 90mm	Inner diameter 20mm, outer diameter 90mm	Inner diameter 20mm, outer diameter 90mm	Inner diameter 6mm, outer diameter 47mm	Inner diameter 14 mm, outer diameter 74mm	Inner diameter 20mm, outer diameter 120mm
Weight	1.4kg	2.6kg	1.3kg	1.5kg	1.1kg	1.1kg	1.1kg
Cable Length	2m	2m	2m	2m	2m	2m	2m
Navigation Points	4	4	4	4	4	4	4
Number of Pulse (20°C, 75%, 1Hz)	4,000	>10,000	800	4,000	100	370	1,800

View 3D-Neuronavigation

3D Neuronavigation-Makes The Precise Positioning Of The TMS Coil Possible

Origin: Germany

View 3D-Neuronavigation visualizes the electromagnetic hot-spot of the coil at an individual, anatomical data record. This enables the TMS system to stimulate the target with great precision. View 3D-Neuronavigation combines functionality with simple handling. The result: Intuitive positioning with superb precision and reproducibility.

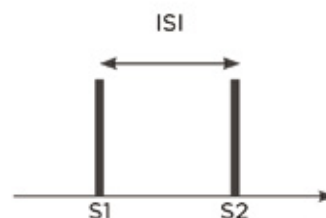


Features

- High-precision coil navigation
- Wireless infra-red tracking system
- Real-time visualization of coil and coil movement
- Intuitive setup
- Individual head scan
- Data export for further statistics
- 6D-position storage and recall
- Integrated navigation points on all MAG & More coil

Paired Pulse With PowerMAG ppTMS All-In-One Solution

In general ppTMS protocols usually require two stimulators connected to one coil. The PowerMAG ppTMS is a stand-alone rTMS device to allow various "ppTMS protocols and therapeutic rTMS protocols" within one machine by using actively recharging between conditioning (S1) and test pulse (S2).



Features

- No second device or "option" needed thanks to MAG & More's ppTMS technology
- Powerful rTMS and ppTMS with bi-phasic pulses in one device
- Pulse pairs (ISI as low as 1 ms) at high intensities (sub-/suprathreshold)
- In 0.1 ms steps adjustable pulse pairs (ISI)
- Adjustable intensity of conditioning (S1) and test pulse (S2)

DC-STIMULATOR

Programmable Direct Current Stimulator

Origin: Germany

Certificate: TGA, MDD Certificate of Listing No. 251899

The DC-STIMULATOR is a clinical stimulator designed to be used in clinics and medical practices. Using this device, doctors and psychologists can carry out transcranial direct current stimulation (tDCS) using weak currents up to 2mA over 15 to 30 minutes.



Features

- Microprocessor-controlled constant current source
- 1 channel (anodal and cathodal stimulation possible)
- High safety standard through multistage monitoring of the current path
- Stimulation mode: tDCS (continuous stimulation, adjustable, fade in and fade out)
- Study mode for "blind" operation of real and pseudo stimulation, encoded from a code list of 200 codes, independently adjustable settings (can be saved to avoid accidental modification of study parameters)*
- External trigger input*

* Optional

Use and Benefits

- Highest patient safety standards due to multistage monitoring of the current path, automatic termination of the stimulation as well as continuous monitoring of the electrode impedance
- Intuitive menu navigation via display and four buttons
- Individual setting and saving of the stimulation parameters
- Optional: study mode for double-blind active and sham stimulation

Specifications

Adjustable current up to 2,000 μ A in increments of 250 μ A

Adjustable application time up to 30 min

Max. 1 % relative direct current fault tolerance

Max. 0.02 % direct current fluctuation

Internal 16 bit D/A conversion

Internal time resolution <1ms (sample rate 2,048 sps)

"tDCS" stimulation mode: duration 1,800 s, increment 30 s, duration of fade in / fade out 1-120 s, increment 1 s

Dimensions (D x W x H) : 22.5 cm x 13.5 cm x 5.5 cm

Weight (incl. batteries): 0.8 kg

DC-STIMULATOR MOBILE

Transcranial Electrical Stimulation

Origin: Germany
Certificate: TGA, IEC 60601-1



The DC-STIMULATOR MOBILE is a clinical stimulator designed to be used in clinics and medical practices. Using this device, doctors and psychologists can carry out transcranial direct current stimulation (tDCS) using weak currents up to 2mA over 15 to 30 minutes.

Features

- Carry out transcranial direct current stimulation (tDCS) using weak currents up to 2mA over 15 to 30 minutes
- Can be used as part of the day-to-day routine of therapy centers and practices



Specifications

Stimulation

tDCS, DC intensity of -2,000 μ A up to +2,000 μ A

Deviation of the nominal value of DC current: max 2%

Hardware offset: ± 10 μ A

Voltage limit: max. ± 16 V

General

Power consumption: max. 0.25 W

Power supplied by a built-in, rechargeable, leakproof battery within the Storage Module, recharges via USB

Runs continuously for around 90 min (dependant on stimulation mode and battery condition)

Graphical display, 1 button

Dimensions

Stimulator: 71 mm x 94 mm x 15 mm, weight 66 g

Programmer: 71 mm x 62 mm x 15 mm, weight 46 g

Storage Module: 71 mm x 39 mm x 15 mm, weight 42 g

Charge-only device (optional): 71 mm x 61 mm x 15 mm, weight 46 g

Components of the basic set of devices

6 Storage modules

2 Stimulators

2 Programmers

PC software

Case

Starstim fNIRS

Combined Wireless fNIRS-tDCS-EEG

Origin: Spain



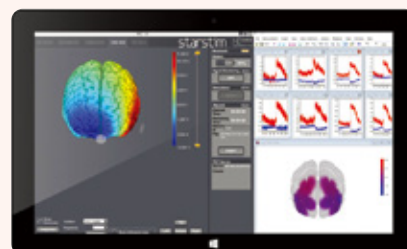
The Starstim fNIRS package includes Neuroelectrics StarStim (tCS and EEG) and Artinis OctaMon, both non-invasive and wearable technologies.

It allows clinicians and researchers to measure resting-state and task-related prefrontal cortical activity (EEG) and/or hemodynamics (fNIRS) before, during and after transcranial electrical stimulation in real world settings. In addition to the equipment provided, the Starstim NIRS package includes online assistance by Silverline Research Services (SRS) on how to integrate these two state-of-the-art devices or to tailor the Starstim with another neuroimaging device specifically according to your research or clinical needs.



Features

- Most optimal wireless solution for brain stimulation and imaging
- Combine transcranial current stimulation (tCS: tDCS, tACS, tRNS) and electroencephalography (EEG) with fNIRS in one single headset
- Includes Neuroelectrics StarStim (tCS and EEG) and Artinis OctaMon or Brite23, both non-invasive and wearable technologies



Specifications

fNIRS Functionality

Number Of Channels	8
Sampling Rate	50 SPS
Light Source LED's	8x2 wavelengths
Wavelength	760, 850 nm
Optode Distance	35 mm

EEG Functionality

Number Of Channels	8
Sampling Rate	500 SPS
Bandwidth	0 to 125 Hz (DC coupled)
Resolution	24 bits – 0,05µV resolution
Noise	< 1µV RMS
CMRR	-115 dB
Input Impedance	1 GΩ

Stimulation Functionality

Number Of Channels	8
Sampling Rate	1,000 SPS
Frequency Range	0 to 250 Hz (tACS) and 0 to 500 Hz (tRNS)
Stimulation Types	tDCS, tACS and tRNS
Maximum Current Per Channel	± 2mA
Current Accuracy	1%
Current Resolution	1 µA
Voltage	± 15 V per electrode (30 V potential difference)

Starstim 32

Multi-Channel Neurostimulator With 32 Hybrid Channels For tES & EEG

Origin: Spain
Certificate: CE, IEC 60601-1



Starstim® is a research-class multichannel transcranial current stimulator (including tDCS, tACS and tRNS), an EEG and accelerometry recording system – all in a single lightweight, wireless package.



Features

Wireless & Hybrid Device

Starstim 32 is a wearable device that wirelessly transmits the 32-channel data via wifi. Its hybrid electrodes can be used for electrical stimulation (tDCS/tACS/tRNS) or EEG recording

Real-Time EEG During tCS

Starstim 32 combines high-resolution tCS with EEG monitoring in real time. Each channel is independently assigned to tCS or to EEG

Multi-Electrode Montages

Synchronized multi-focal target stimulation of specific brain networks

Closed-Loop Experiments

The low-latency wired connection is ideal for closed loop stimulation derived from EEG measurements

Target Optimization

Coupled with Stimweaver optimization services, Starstim offers personalized solutions that allow iterative target adjustments for tCS

Family Products Comparison

	Starstim 32	Starstim 20	Starstim 8	Starstim tES
tES With Simultaneous EEG	✓✓✓	✓✓✓	✓✓✓	-
Complex Network Stimulation	✓✓✓	✓✓	✓	-
Bipolar / 4x1 / HD tDCS	✓✓✓	✓✓✓	✓✓✓	✓✓✓
tACS With In-Phase/Anti-Phase Montage	✓✓✓	✓✓✓	✓	✓
EEG-tES Closed Loop	✓✓✓	✓✓	✓	-
Multi-Channel tES-MRI Experiment	✓✓✓	✓✓✓	✓✓✓	✓✓✓
tES-EEG-fNIRS Experiment	✓✓✓	✓✓✓	✓✓✓	-

Starstim tES

Wearable And Wireless 8-channel System
For Precise Multi-Channel tES Stimulation

Origin: Spain



Starstim tES is not only a wearable and wireless 8-channel tES stimulator. It is a set of user-friendly tools for precise waveform and montage design.

Features

Multi-channel Programmable Precise tES

- Stimulate using up to 8 electrodes
- Stimulate with fully parameterizable tDCS, tACS and tRNS waveforms using bipolar, high-definition (e.g., 4x1) or advanced montages
- Allows flexible electrode placement based on the 10-10 system

Advanced Visualizations of tES Field Distribution

- The NIC2 software interface offers the fastest and most precise simulation of the electric field distribution. Developed by our research experts using Finite Element Method (FEM) modeling, it displays potential, electric field magnitude and electric field components, offering interactive 3D brain visualizations

Double Blind Study Mode

- Offer an end-to-end solution for fully reliable double blind studies. The NIC2 software interface allows for automatic generation of sham versions of the protocol and adjustment of its parameters

Custom tES Waveforms Execution

- Starstim tES allows delivery of user-designed arbitrary current waveforms for each stimulation channel. They can be combined with the standard waveforms while ensuring precision and safety

Unparalleled tES Safety

- Starstim tES redundant safety layers ensure at all levels that the tES currents you defined match standard safety guidelines (2 mA per electrode, 4 mA in total max)

Specifications

Number Of Channels	8 Channels
Sampling Rate	1000 S/s
Current Resolution	1 μ A
Operating Time (USB Communication)	8.0 hours (8-channel tDCS)
Device Weight	86g

NIRSIT

Functional Near Infrared Spectroscopy

Origin: Korea

Certificate: Korea, CE, IEC 60601-1, IEC 60601-1-2



The NIRSIT is a light-weight, easily configurable, multichannel fNIRS imaging system for prefrontal brain with high portability. fNIRS is an effective and non-invasive functional brain imaging device. It has custom-made dual wavelength VCSEL laser as illuminator with active detection technology for wearable brain imaging solution.

This system allows real-time measurements of the prefrontal cortex.



Gain Calibration

In less than a minute, NIRSIT performs gain calibration of each sensor and detector for optimum signal achievement.



Photogrammetry

NIRSIT sensor and detector positions are aligned with fMRI MNI coordinates for signal-location compatibility.



Motion Calibration

NIRSIT performs an additional layer of calibration using a gyroscope for motion compensation.



Save & Retrieve

NIRSIT allows you to save and retrieve signal data obtained from the brain, using the tablet.



Analyze

Simply download retrieved data from the tablet on to your personal PC and analyze the raw data as you see fit.



Digital signal Processing

NIRSIT measures hemodynamic changes by detecting light signals from the brain and undergoing digital signal processing.

Applications

General

- Cognitive study
- Characterization of metabolic changes
- Affective state decoding
- Brain computer interface

Tasks

Behavioral Task

- Squat test
- Balance training

Cognitive Task

- n-back test
- Arithmetic test
- Stroop test

Software Features

NIRSIT SCAN – Real-time Measurement Platform

NIRSIT SCAN is a user-friendly interface designed for both beginners and experts. It enables real-time measurement of brain activation with 3D brain imaging, real-time visualization of signal changes, and the ability to receive task markers from external stimulation software.

NIRSIT QUEST – Comprehensive Data Analysis Platform

NIRSIT QUEST is a project-based analysis tool tailored for easy yet advanced processing of fNIRS data. It offers customizable preprocessing, marker management, trimming tools, and advanced statistical analysis (e.g., GLM, t-tests, ANOVA). Users can visualize time-series plots and activation maps, and export bullet points for their methods section.



Specifications

Physical

Dimensions	215 x 195 x 75 (mm)
Weight	500g

Operational

Illumination Type	Custom Dual Wavelength VCSEL Laser
Number Of Illumination Sources	24
Laser Output	3mW/Source
Wavelength	780 nm, 850 nm
Detection Type	Active Detection Sensor (No Optical Fibers)
Sensor Type	PIN Photodiode
Number of Detectors	32
Number of Detection Channels	Max 204 Channels (DOT mode)
Source Detector Separation	1.5cm, 2.12cm, 3cm, 3.35cm
System Scan Rate	Max 32.552 Hz
Power	Lithium Ion Polymer Battery 3000Ah
Mode of Operation	Continuous Wave
Modulation Method	CDMA, TDMA

NIRSIT Lite

Brain Imaging System For Adults

Origin: Korea

Certificate: Korea, CE, IEC 60601-1, IEC 60601-1-2



OBELAB is introducing a new portable functional Near-Infrared Spectroscopy (fNIRS) system: NIRSIT Lite! It is a light-weight, easily configurable, multi-channel fNIRS neuroimaging system for prefrontal cortex, specifically targeted for research.

NIRSIT Lite is designed to measure variations in cerebral hemodynamics on a real-time basis by radiating a near-infrared light beam, at two wavelengths of 780nm and 850nm of LED, into the cerebral cortex.

Boasting light weight of only 200g, it is designed to fit the head sizes of adults. The system comes with its dedicated monitoring and analysis software for researchers. Flexible design to fit various head sizes.

Features

- Non-invasive measurement
- Motion artifact removal algorithm using embedded motion sensor
- Real-time multichannel monitoring hemodynamic variations
- 15 channels with short channel separation (8mm)
- High temporal resolution of 8 Hz
- Flexible design to fit various head sizes
- Various embedded cognitive and behavioral tasks
- Also available for kids.

New Features: Talk Talk Brain for Senior

- Specifically designed for the elderly, TalkTalk Brain evaluates key cognitive functions such as attention and memory through voice-guided, interactive tasks
- Utilizes a lightweight, wireless EEG headband to measure brainwave activity safely and non-invasively—no complex setup or hospital visits required
- The entire assessment takes just 10 minutes, making it easy to integrate into daily routines without causing fatigue or stress
- Delivers immediate, easy-to-understand brain health reports that display attention/memory scores and progress trends—ideal for users, caregivers, and healthcare professionals



REPACE Pro

NEW

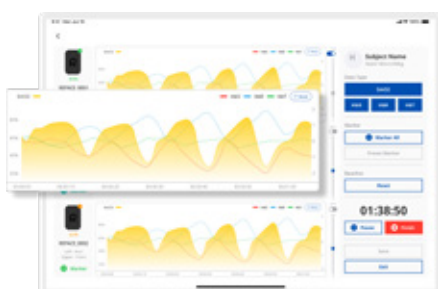
Muscle Oxygen Monitor

Origin: Korea

REPACE Pro designed for precise, real-time tracking of muscle oxygen saturation (SmO₂) and hemodynamics (relative change in the concentration of oxygenated hemoglobin [HbO], deoxygenated hemoglobin [HbR] and total-hemoglobin [HbT]). By leveraging advanced wireless NIRS technology, **REPACE Pro** delivers unparalleled insights into athlete's muscle performance, empowering to optimize training, recovery, and overall performance.



Features



— Dedicated Real-Time Monitoring Software

Access live data on SmO₂, HbO, HbR, and HbT to refine your workout strategies and elevate training efficiency

— Multi-device Monitoring

Connect up to three devices to monitor different muscle sites simultaneously, providing a comprehensive view of each muscle performance. (Of course it can monitor multi-athletes.)



— Intuitive Session Designer and Marker Tool

Easy to allocate event marker by predefined session protocol as well as individual event markers.



— Comprehensive Data Summary

Visualize session trends, annotate key moments, and export your data in CSV or FIT formats for in-depth analysis and reporting.