

OMNIBRAIN

Operating Manual

Important Notes for Getting Started

We congratulate you on your purchase of the OmniBrain brain wave entrainment system.

Together with the Omnium1, OmniBrain will create stimulation of the brain waves by using visual and acoustic signals. In doing so, rhythmic visual and acoustic signals will be generated in specifically programmed sequences through LED goggles and headphones. In principle, our brains fluctuate between four different ranges of brain waves, each with its own characteristic set of frequencies (alpha, beta, delta and theta waves). The four frequency patterns determine if we are in the state of extreme concentration or in phases of stress, relaxation, dreaming or deep sleep. The brain has the property of adjusting itself to externally applied fluctuations. By generating a specific fluctuation pattern, stimulation of the phases of being awake, relaxation, deep sleep and dreaming can be achieved with the OmniBrain system. The OmniBrain can be used independently as well as together with an iMRS one application.

This operating manual is a component of the scope of delivery. It should be kept close to hand and remain with the system when sold.

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Table of Contents

1. Scope of Delivery	4
1.1 Control unit	5
2. Contra-indications and Accompanying Symptoms	6
3. Installation	6
4. Activation	7
5. Starting an Application	8
6. Color Settings	9
7. Music Settings	10
8. Settings	11
8.1 About	11
9. Updating	11
10. Technical Data	11
11. Guarantee/Warranty	12

1. Scope of Delivery

							🐨 🔳 09:13
							🛓 morning
Color	Settings				Music S	etting	3
Goggles	On				Music o	n 🧱	Tones on
Red	•		_		Please plugin TF of on the 'IMRS' fold	card, and make er	sure your music files
Green	0						
Blue			-0	255			
Brightness			-0	100%			
				START		<u>,</u>	X Settings ∡
		₽					

OmniBrain Android software

(Pre-installed on the Omnium1)



LED goggles incl. earphones and connection cable



5 Hygienic films







Operating Manual

If one part should be damaged or missing, please contact your consultant at Swiss Bionic Solutions.

1.1 Control unit

The OmniBrain will only function in connection with the Omnium1 control unit. The Omnium1 control device is included in the scope of delivery for all iMRS one sets available. You will find the operating instructions for the Omnium1 in the special manual that accompanies the control device.



Omnium1 Tablet



Quick Start Guide

2. Contraindications and Accompanying Symptoms

Do not use when the person is subject to:

- Photosensitivity
- Epilepsy

In some people, an epileptic crisis or attack of fainting may be triggered by the continuous effect of rhythmic visual and acoustic signals. This phenomenon may also arise without a prior diagnosis of epilepsy or treatment for this condition. The risk of triggering latent cases of epilepsy exists in particular in children younger than the age of 14. The OmniBrain should not be used in these cases.

3. Installation

Take the individual parts out of the packaging.

- 1. Connect the 20-pin plug from the LED goggles with the 20-pin jack of the Omnium1 control device (or when using a magnetic resonance stimulation system simultaneously, with the 20-pin jack of the D/A converter).
- Make sure that battery for your Omnium1 has been sufficiently charged. The application will not be possible if the battery charge state drops below 5%. In that case, connect the power supply with the Omnium1 (see the Omnium1 operating manual).
- 3. Check the system time selected (in the upper right corner of the display) and set it to the current time, if necessary (see the Omnium1 operating manual). The built-in organ clock will adjust automatically to this system clock during an application.

4. Activation

After you have completely installed the system and checked the battery charge state, activate the OmniBrain app by tapping the program icon (1) on the Omnium1 desktop (2).



Afterwards, the OmniBrain initial screen will display the legal proscribed contraindications. As soon as it has been acknowledged (by tapping ENTER), you will see the user interface for the OmniBrain application.



5. Starting an Application

The integrated organ clock will automatically adjust to the time set on your Omnium1.

You can see the organ clock setting on the display in the upper right corner (4). However, if you want to change it manually, tap on the organ clock icon (8) and choose the desired organ clock setting (morning, afternoon, evening or night). The application can be started by tapping the Start/Stop button (3).

Please note: the eyes must be kept closed during an OmniBrain application.



Organ Clock morning:

Beta Waves: they range from approx. 12 - 30 HZ. These frequencies activate the body and the mind. The faster (higher) frequencies within this spectrum are responsible for cognitive functions such as concentration and memory. The balance of Beta activates in case of reduced ability to be stimulated as well calming in case of mental hyper activity.

Organ Clock noon:

Alpha Waves: they range in the spectrum from approx. 8 - 12 HZ. This brain wave form is responsible for being in a relaxed state without losing focus. This is important in order to "wind down", reduce stress and pain. It also reduces circulating cortisol levels. The OmniBrain-Alpha-range should be used after a lunch break to activate the parasympathetic system (regeneration, relaxation)

and to give your brain a "little break".

Organ Clock evening:

Theta Waves: frequency spectrum from approx. 4 - 7 HZ. These waves are connected with total relaxation and improvement of senses and creative forces. Theta wave activation is ideal for relaxation after an exhausting workday. It calms brain activity without getting sleepy. Theta status is a creative status in which thoughts become clearer and are characterized by emotions.

Organ Clock night:

Delta Waves: frequencies up to 4 HZ. These frequencies are responsible for deep sleep and at the same time increase the stability of individual sleep cycles. When the brain is in Delta state the consciousness is very receptive. For this reason Delta frequency is optimal to activate cell regeneration for the entire organism.

6. Color Settings

Activate the LED goggles by swiping the Goggles switch to the ON (1) setting. You can define the desired color and brightness using the individual sliders on the left side (2). The color chosen by you will be displayed beneath the slider (9). OmniBrain has respectively twelve color LEDs on each side of the goggles (four red, four green and 4 blue LEDs).

Visualizing the color can generate either a sedative or stimulating effect in the brain. OmniBrain can generate all of the colors in the RGB spectrum through the setting options in the software interface. The following wellness effects can be achieved by using the correct selection of color shades.

Red Shades:

Contribute, vitality, decisiveness and energy. Red shades strengthen the joy of life, feelings of self-worth and promote assertiveness and the power to go after and overcome hindrances.

Spiritual development, vitality, bravery and power

CAUTION: People with an overstimulated symapthetic nervous system do not tolerate RED SHADES very well.

Green Shades:

Refresh and generate optimism and strengthen the general feeling of wellbeing. They promote inner calm and relaxation. Green is the color of the lightening of the heart and of harmonic growth. Green releases creative energy. Green stands for exchange, reconciliation, comfort and compassion.

Self-assertiveness, serenity, endurance and growth

Green shades are generally well tolerated by all people, without uncomfortable initial reactions.

Blue Shades:

Are the color of loyalty and surrender, or inner connectedness and emotional security. Blue shades strengthen the life forces. They are considered to be soothing and harmonizing. Blue symbolizes growth, persistence and justice. It promotes the balance of energy, communication and understanding of others. Sympathy, broad thinking and assertiveness

Blue shades are also generally well tolerated by all people, without uncomfortable initial reactions.

7. Music Settings

Activate the playback of music by swiping the Music switch to the ON (5) setting. For the music to be played, a micro-SD card (optional) must be available in the Omnium1.

IMPORTANT: First, create a folder on the card named IMRS. Then, store your desired music files in that folder. They will then be displayed in the file window (7) of the OmniBrain user interface and played in sequence. You can also select individual music files directly by tapping on the file name.

An additional feature is the ability to activate sound sequences whose vibrations will be synchronized with the LED frequencies. Thereby, they amplify the effect of the brain wave stimulation. To do this, swipe the Sound switch to set it to the ON (6) setting.

8. Settings

Tapping on the " \mathbf{x} Settings" button will open a sub-menu with menu items. Tap the desired button to open a sub-menu item.

8.1 About

From this sub-menu, you will see the software version of the OmniBrain app as well as the serial number for the Omnium1.

9. Updating

Whenever your Omnium1 is connected to the internet (via WIFI), your iMRS one App automatically verifies, whether a new software version is available. In this case a notification appears on your screen. Please klick on "YES" followed by clicking on "Install". The System will automatically update the App to the newest version.

10. Technical Data

Nr.	Designation	Values, unit, type and model				
LED Goggles						
1	LEDs per side	12				
2	Peak wave lengths (RGB)	628nm / 518nm / 468nm				
3	Light intensity (RGB)	120mcd / 280mcd / 70mcd				
4	HF frequency	None				
5	Cable length (without plug)	2 m				
6	Weight	100 g				
Connecting another set of LED goggles is not allowed						
Earphones						
7	Frequency range	20 - 20.000 Hz				
8	Impedance	2 x 32 Ohm				
9	Max. performance	2 x 10 mW				
Important: only use original accessories.						

11. Guarantee/Warranty

Swiss Bionic Solutions provides the warranty on the material and work for a Swissbionic Solutions` products are subject to the legally binding guarantee obligations in case of a manufacturing-related defect in material-, processingor function, hereby the following applies:

Apparent defects:

The buyer must inspect the product immediately upon delivery (within 1-3 days) and notify apparent defects. Failing to do so eliminates the right to claim guarantee.

Hidden defects:

Hidden defects can be claimed within the legally binding guarantee period. A hidden defect has to be reported immediately after detection.

Additional warranty services for Swissbionic Solutions products:

Swissbionic Solutions is granting the following warranty services within the defined time frames of the below listed products and accessories: Elimination of defects of the respective product/accessory incl. failures in material, manufacturing and functioning. In case of a defect during the warranty period, Swissbionic Solutions is granting one of the following services according to it's own choice:

- Free of charge repair of the respective item.
- Free of charge and equivalent exchange of the respective item.

Exclusions of warranty claims:

- Regular wear and tear
- Inappropriate handling
- Disregard of safety instructions
- Application of force
- Single-handed repair attempts
- Utilization of unauthorised accessories

Warranty periods of Swissbionic Solutions products:

- Omnium1 control unitt: 1 Year
- Omnium1 D/A-Converter: 3 years
- Omnium1 applicators: 3 years
- OmniBrain: 6 months
- Omnium1 Power plug: 6 months
- Omnium1 Accessories, cords: 6 months

To claim a warranty, you must provide the original receipt of purchase. Warranty services are basically non-tranferrable (i.e. in case of a private sale of a used Swissbionic Solution product to a third party).

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