SMART Pulser

S.BRAIN

Operating Manual



Thank you for purchasing the S.Brain Brainwave Stimulation System.

When used in combination with your SmartPulser (does not work with the Smartpulser mini), the S.Brain system enables targeted visual and auditory stimulation of brain waves. Rhythmic light and sound signals are generated in specific sequences via LED flashing glasses and headphones.
The human brain operates in four primary frequency ranges (alpha, beta, delta, and theta waves). These frequency patterns correspond to different states such as high concentration, stress, relaxation, dreaming, or deep sleep phases. The brain has the ability to adapt to external rhythmic stimuli (entrainment effect). By generating specific oscillation patterns, the S.Brain system supports the induction of wakefulness, relaxation, deep sleep, or dream phases. The S.Brain system can be used both independently and in conjunction with pulsed electromagnetic field (PEMF) stimulation.
This user manual is an integral part of the scope of delivery. It must be kept within easy reach at all times and must remain with the system even if it is resold.

Copyright

Copyright © 2026 Super Captain Co. Ltd.
All rights reserved.

No part of this manual—including the products and software described herein—may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into another language without the express written permission of Super Captain Co. Ltd. Exceptions to this include documentation created by the purchaser for backup purposes, as well as software licensed under free open-source licenses (such as the GPL).

The contents of this manual may differ from the product or the accompanying software. All information is subject to change without prior notice.

Table of Contents

1. Intended Use 4
2. Scope of Delivery..... 4
2.1. Control Unit..... 5
3. Contraindications and Side Effects..... 6
4. Installation 7
5. Performing a Single Treatment (without PEMF)..... 8
5.1. Color Settings.....10
5.2. Sound settings 11
6. Performing a Combined Treatment (with PEMF).....11
6.1. Color Settings.....14
6.2. Sound settings 14
7. Technical Specifications 15
8. Warranty and Guarantee.....15

1. Intended Use

The S.Brain system is not a medical device and is not intended to diagnose, cure, alleviate, prevent, or treat any disease.

2. Scope of Delivery



S.Brain LED goggles



Earphones



5 Hygienic films

If any parts are damaged or missing, please contact your local distributor.

2.1 Control Unit

The S.Brain system operates exclusively in conjunction with the SmartPulser control unit. For detailed operating instructions for the control unit, please refer to the separately enclosed manual.



3. Contraindications and Side Effects

Do not use in cases of:

- Photosensitivity / sensitivity to light
- Epilepsy

NOTE: In susceptible individuals, exposure to rhythmic visual and auditory signals may trigger epileptic seizures or fainting spells. This also applies to individuals with no known history of epilepsy. The risk of triggering latent epilepsy is particularly high in children under 14 years of age. In these cases, the S.Brain system must not be used!

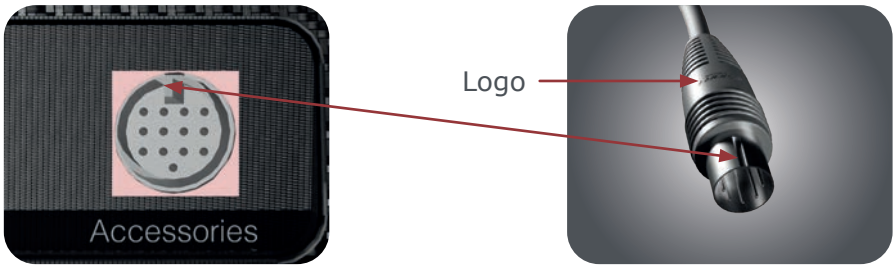
4. Installation

- Remove all components from the packaging.

- Connect the S.Brain system to the SmartPulser control unit: To do this, plug the applicator connector into the designated jack on the back of the control unit (1). The SmartPulser system automatically detects the S.Brain system.

- Check the system time (top right of the display) and adjust it if necessary (see the SmartPulser user manual). The built-in biological clock automatically adjusts to the set system time during use.

IMPORTANT:
When connecting the device, ensure that the plug is seated correctly. -> The logo on the plug must face upward. Damage caused by improper handling will void the warranty.

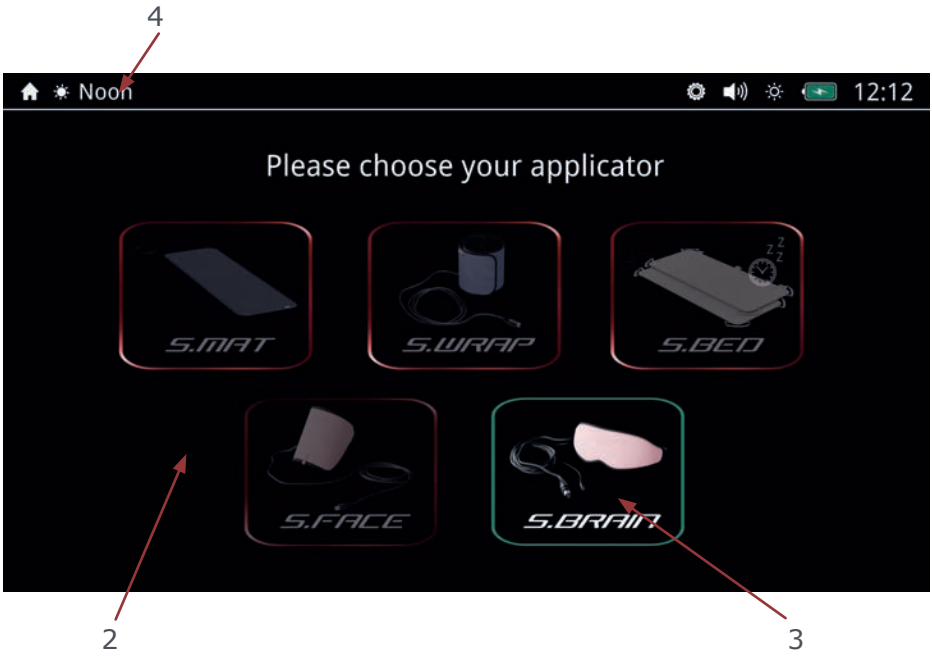


Socket on the control unit

Applicator plug



5. Performing a single application (without PEMF)

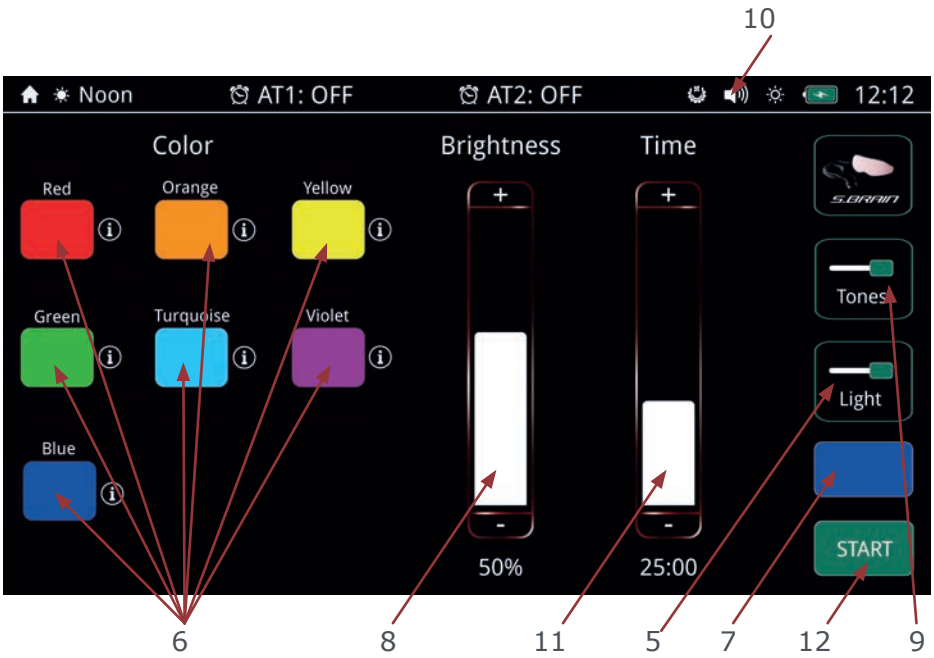


After installation, on the SmartPulser home screen, select (2) the S.Brain icon (3).

The S.Brain user interface will then open.

The built-in organ clock automatically synchronizes with the SmartPulser's time. The current organ clock setting is displayed in the upper left corner of the screen (4). To adjust the setting manually, tap the organ clock icon (4) and select the desired time of day (morning, noon, evening, night).

IMPORTANT NOTE: Your eyes must remain closed throughout the entire S.Brain session!



Organ Clock Morning (beta waves: approx. 13–30 Hz):

Promotes mental and physical alertness. Higher frequencies within this range support cognitive functions such as concentration and memory. Balanced beta stimulation has an invigorating effect when you're tired and a calming effect when you're mentally restless.

Organ Clock Noon (Alpha waves: approx. 8–13 Hz):

Promotes a state of relaxed alertness and focus. Helps relieve stress and reduce tension. Ideal after the lunch break to activate the parasympathetic nervous system and allow for a restorative break.

Organ Clock Evening (Theta waves: approx. 4–8 Hz):

Associated with deep relaxation, intuition, and creativity. Ideal for recovery after a strenuous workday, as it calms brain activity without

causing immediate drowsiness.

Organ Clock Night (Delta waves: up to 4 Hz):

Characteristic of deep sleep. These frequencies support sleep quality and promote regenerative cellular processes in the body.

5.1. Color Settings

Activate the flashing light glasses by tapping the "Light" button (5). Select the desired color and brightness using the color buttons on the left side (6). The currently selected color is displayed above the Start button (7). The intensity of the LEDs can be adjusted using the brightness slider (8).

Color stimuli can trigger calming (sedative) or stimulating (tonic) effects in the brain. The S.Brain system supports the entire RGB color spectrum:

Shades of red:

They have an energizing, revitalizing, and stimulating effect.
CAUTION: People with significantly elevated sympathetic nervous system activity should avoid red tones.

Shades of green:

Have a balancing, refreshing, and harmonizing effect. Promote inner calm and endurance. Are generally very well tolerated.

Shades of blue:

Have a calming, clarifying, and relaxing effect. Promote mental balance. Are also very well tolerated.

5.2. Sound Settings

Activate the audio output using the "Sounds" button (9). To do this, connect the earbuds to the light-flashing glasses.

The acoustic pulses synchronize with the light frequency of the LEDs and enhance the stimulation effect. Adjust the volume using the speaker icon in the top menu bar and the slider (10) that appears.

The session duration can be set using the time slider (11) (1:00 to 60:00 min).

Start the session using the Start/Stop button (12).

6. Performing a Combined Treatment (with PEMF)

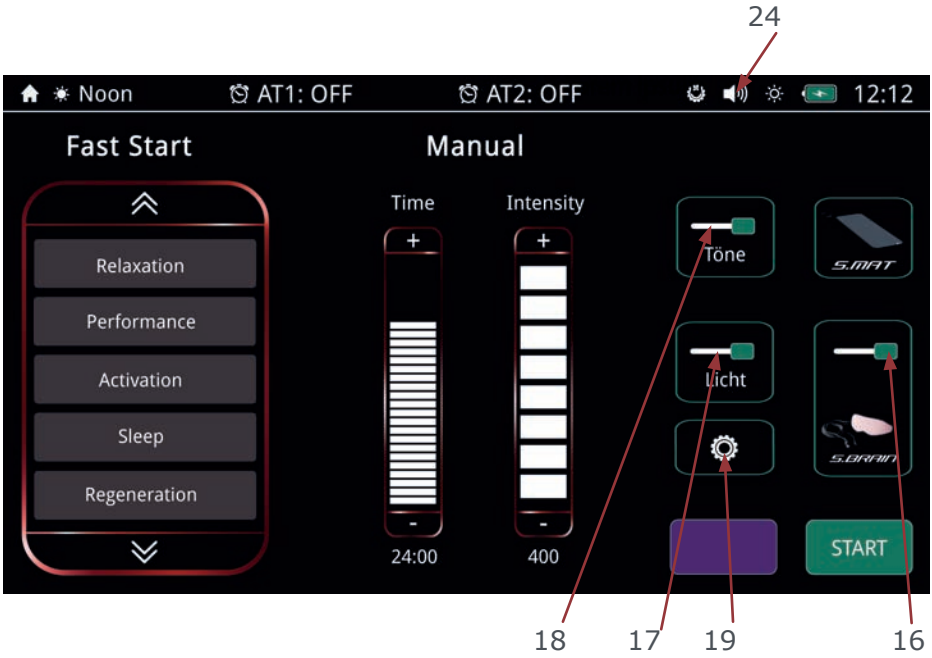


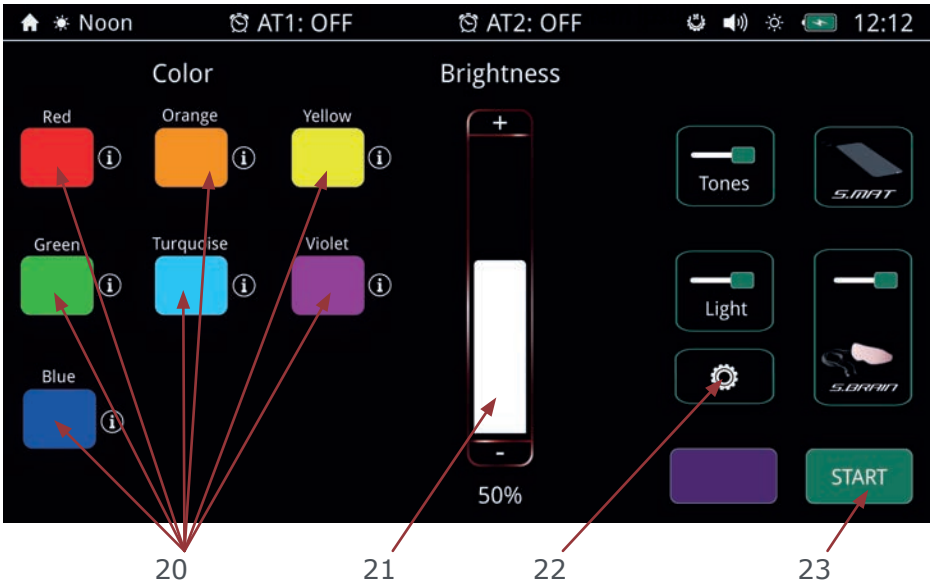
After installation, select the desired full-body applicator (e.g., S.Mat) on the home screen (14) using the corresponding icon (13).

The corresponding user interface will open.

The built-in organ clock automatically synchronizes with the Smart-Pulser's time. The current organ clock setting is displayed in the upper-left corner of the screen (15). To manually adjust the setting, tap the organ clock icon (15) and select the desired time of day (morning, noon, evening, night).

IMPORTANT NOTE: Your eyes must remain closed at all times during the S.Brain application!





Organ Clock Morning (beta waves: approx. 12–30 Hz):

Promotes mental and physical alertness. Higher frequencies within this range support cognitive functions such as concentration and memory. Balanced beta stimulation has an invigorating effect when you're tired and a calming effect when you're mentally restless.

Organ Clock Noon (Alpha waves: approx. 8–12 Hz):

Promotes a state of relaxed alertness and focus. Helps relieve stress and reduce tension. Ideal after the lunch break to activate the parasympathetic nervous system and allow for a restorative break.

Organ Clock Evening (Theta waves: approx. 4–7 Hz):

Associated with deep relaxation, intuition, and creativity. Ideal for recovery after a strenuous workday, as it calms brain activity without causing immediate drowsiness.

Organ Clock Night (Delta waves: up to 4 Hz):

Characteristic of deep sleep. These frequencies support sleep quality and promote regenerative cellular processes in the body.

6.1. Color Settings

Tap the S.Brain icon (16) to display the additional functions. The buttons for light (17) and sounds will appear (18). Activate the light feature by tapping the "Light" button (17).

To adjust the color and brightness, open the settings menu (19). Select the desired color using the color buttons (20) and adjust the intensity using the brightness slider (21). Tap the settings icon again to return to the PEMF parameters.

(For color effects, see Section 5.1)

6.2. Sound Settings

Enable sound playback using the "Sounds" button (18). Make sure the earbuds are properly connected to the flashing light glasses.

Adjust the volume using the speaker icon in the menu bar and the slider (24).

Start the combined application by pressing the Start/Stop button (23).

7. Technical Specifications

No.	Description	Values, Unit, Type, and Model
LED Goggles		
1	LEDs per side	4 pcs
2	Peak wavelength (RGB)	628 nm / 518 nm / 468 nm
3	Light Intensity (R/G/B)	300 mcd / 1000 mcd / 220 mcd
4	HF frequency	None
5	Cable length (excluding plug)	2 m
6	Weight	183 g
IMPORTANT: Connecting third-party smart glasses or smart glasses from other manufacturers is not permitted!		
Earphones		
7	Frequency range	20 - 20.000 Hz
8	Impedance	32 Ohm
9	Max. Power Handling	10 mW
IMPORTANT: Use only genuine accessories!		

8. Warranty and Guarantee

Products from Super Captain Co., Ltd. are covered by the statutory warranty provisions for manufacturing-related defects in materials, workmanship, or function. The following conditions apply:

Obvious defects:
The buyer is obligated to inspect the goods immediately upon receipt and report any obvious defects within 1–3 business days. Otherwise, the warranty claim for these defects will be void.

Hidden Defects:
Hidden defects may be claimed within the statutory period and must be reported immediately upon discovery.

Exclusion of Warranty and Guarantee:

- Normal wear and tear
- Improper handling or misuse
- Failure to follow safety instructions
- Mechanical damage / impact

- Attempts to repair the product on your own
- Use of unauthorized accessories

Manufacturer´s Warranty:
The manufacturer offers the following services and terms as part of a voluntary warranty:
• SmartPulser S.Brain: in accordance with legal requirements

Requirements and Conditions:
• The original proof of purchase must be presented to make a warranty claim.
• Warranty benefits are generally non-transferable (e.g., in the event of a private resale to a third party).

Manufacturer:
Super Captain Co. Ltd.
Unit D18 3/F, Wong King Industrial Building
No. 2-4 Tai Yau Street, Kowloon, Hong Kong

Phone: +86 769 87908361
Email: info@superduper.com.cn

Version: 2026/11