BRAINATICA

USER MANUAL

tDCS

CE

YERLİ ÜRETİM

CONTENTS

1. WARRANTY AND LEGAL DISCLAIMER

1.1. Brainatica tDCS v1 is covered by a warranty for any defects that may occur within the first 2 years after its purchase. Any faulty parts will be replaced or repaired free of charge (excluding shipping) for a period of 2 years. In cases of user-induced damage, such as dropping or breaking, only the cost of the part will be charged. Warranty does not cover user or third-party interventions. Consumables such as electrodes, electrode cables, sponges, and headbands are not covered by the warranty. To maintain the warranty, the device requires calibration once a year. Calibration performed once a year, as a prerequisite, will be covered under the warranty for the 2-year warranty period. When returning the device for repair, it is recommended that the device owner includes a letter with their name, address, phone number, and a description of the problem.

BEFORE SENDING THE DEVICE, THE USER MUST PROVIDE PRELIMINARY INFORMATION THROUGH PHONE NUMBERS, SUPPORT FORM, OR EMAIL ADDRESSES ON OUR WEBSITE.
Visit **http://www.brainatica.com**

1.2. Disclaimer:
As stated in this paragraph, the user acknowledges that the device they have acquired is the **Brainatica tDCS v1**, and the manufacturer confirms that the device is covered by the company's warranty for any issues within its intended use.

1.3. Legal Disclaimer and Liability Statement:

The manufacturer acknowledges that the **Brainatica tDCS** device is not a medical device. It is an experimental device designed for hobby/performance purposes, generating electrical currents. As it is not considered a medical device, the device may not be suitable for everyone due to individual differences in mental, emotional, and psychological conditions. Individuals with psychiatric or neurological problems using the **Brainatica tDCS** device should seek the advice and supervision of a doctor regarding the application areas and doses. The manufacturer is only responsible for the proper functioning of the product and assumes no liability for damages resulting from faulty or inappropriate use of the product.

WARRANTY CARD

Purchase date of the device: ..... / ..... / 20.....
Place of manufacture: .....
Seller: .....
Buyer's name: .....
You can write your explanation about the device's problem below.
.....

2. READ BEFORE USING Brainatica v1 tDCS DEVICE!

This device's circuit and electrodes have met **CE** criteria and obtained documentation. However, the **Brainatica tDCS** device is not classified as a medical device. Therefore, individuals intending to use the device for psychiatric and neurological conditions must consult with a doctor to determine the application areas, dose, and duration. Our company does not guarantee that the desired effects will occur in everyone using this device. Patients with epilepsy, those with a pacemaker, or individuals with an implant in their body **should not use this device.**

The distinguishing feature of the **Brainatica tDCS** device V1 is its real-time tracking of the application dose, ensuring continuous effective stimulation with natural-like increases and decreases through certain mathematical models.

Numerous studies in the literature have shown that tDCS devices are effective in improving brain functions, enhancing memory capacity, increasing focus, and creating a sense of

energy. However, it should be noted that effectiveness may vary from person to person.

The Brainatica tDCS device V1 is a portable, self-powered and rechargeable unit. It provides stimulation for about 2 hours with one charge, automatically stops after the stimulation period, and in case of a short circuit, it ceases stimulation to protect the user. All safety features and software codes are embedded in the device. For research purposes, Bluetooth is integrated into the device, and all operations can be performed through the touch screen for user convenience.

The device is programmed not to stimulate during the charging state, and it has been put into the service of users as a result of hours of trials and experiments.

The critical function of the **Brainatica tDCS** device is the application locations of the electrodes. These locations, compiled from the literature, may vary for each situation. The red-tipped cable represents the positive-anodal electrode, while the black-tipped cable represents the negative-cathodal electrode. When new connection diagrams are developed

based on recent studies, these innovations will be presented to users through our website.

3. BASIC OPERATION RULES OF THE DEVICE

The device, as seen in the above image, has a power on/off button on the left side and an electrode input on the top side.

3.1. PREPARATION OF ELECTRODES

- **The Brainatica tDCS** device operates with a low-current transmission system, and this current is transmitted through the electrodes. The ends of the cables should contain black-colored carbon conductive sheets in yellow cover.

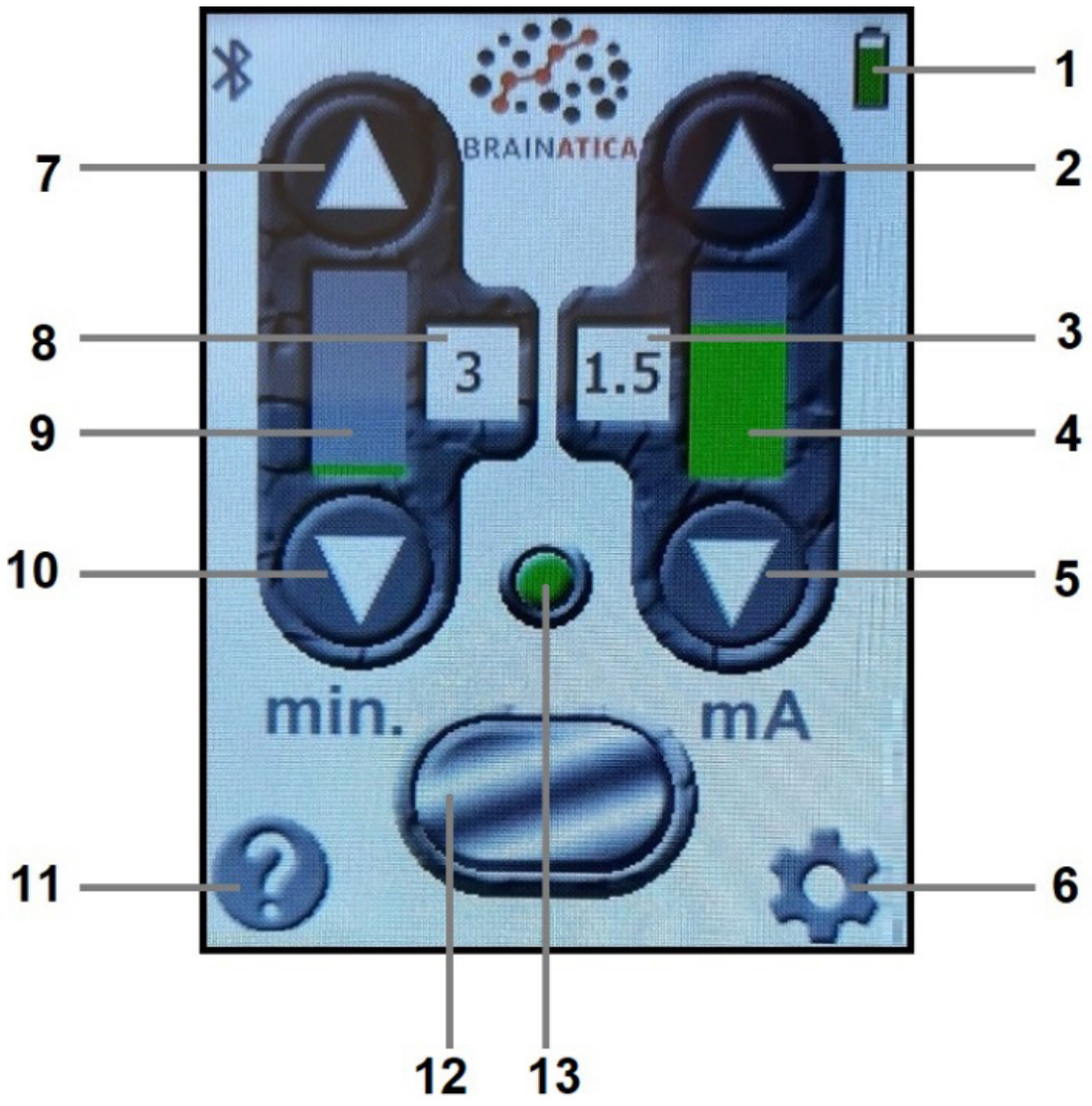
- This cover should be moistened with saline solution (1 teaspoon of salt in a water glass), and excess water on the sponge, where carbon is present, should be gently drained with horizontal movements, taking care not to damage the electrode.

- Wet electrodes should be places and fixed on the areas intended to be simulated by a headband.

IMPORTANT NOTE:
Before using the device, the cables must be inserted into the electrode input, and then the device must be turned on with the on/off button located on the side.

3.2. TOUCHPAD General Information

When the **Brainatica tDCS** device is turned on, the touch screen should display the following image. The meanings of the icons on the screen are listed in the table on the next page.



ID	Features
1	Battery Level
2	Increasing Current (0.1 mA scale)
3	Current Level (mA)
4	Current Level Indicator
5	Decreasing Current (0.1 mA scale)
6	Settings
7	Increasing Duration (1 minute scale)
8	Duration Indicator (minute)
9	Duration Level Indicator
10	Decreasing Duration (1 min. scale)
11	Help
12	Start / Stop
13	Status Indicator

3.3. APPLICATION PROCESS

1. When tDCS is first turned on, you will encounter the opening screen on page 14.
2. Adjust the stimulation time from options 7 and 10.
3. Adjust the current level from options 2 and 5.
4. With electrodes attached, wet and fixed to the head, you can start stimulation by touching area 12 on the screen.
5. The Brainatica tDCS device measures skin resistance, gradually increasing the current until it reaches the level you set beforehand.
6. Meanwhile, indicator 13 will turn “Green.”
7. You can stop the current by touching the start/stop area (number 12) again at any time. When the current stops, it will decrease downwards, as seen initially, and this process can be observed on the screen. Do not remove the electrodes before confirming that the current has stopped.
8. The device will automatically stop when the stimulation

time is completed.

9. When the stimulation is finished, the device will return to the starting position.
10. When the device is no longer in use, it should first be turned off using the on/off button on the side. Subsequently, the electrodes should be removed, and the sponge moistened with saline should be rinsed with clean water and left to dry.

IMPORTANT NOTE:

Keeping the sponge wet can reduce the device's effectiveness over time, as carbon and electrode tips within the wet sponge may be affected by moisture.

IMPORTANT NOTE:

When the device's battery is depleted, there is a short circuit, or situations where stimulation could pose a safety violation, it automatically shuts off and does not stimulate. The battery level can be monitored from indicator number 1.

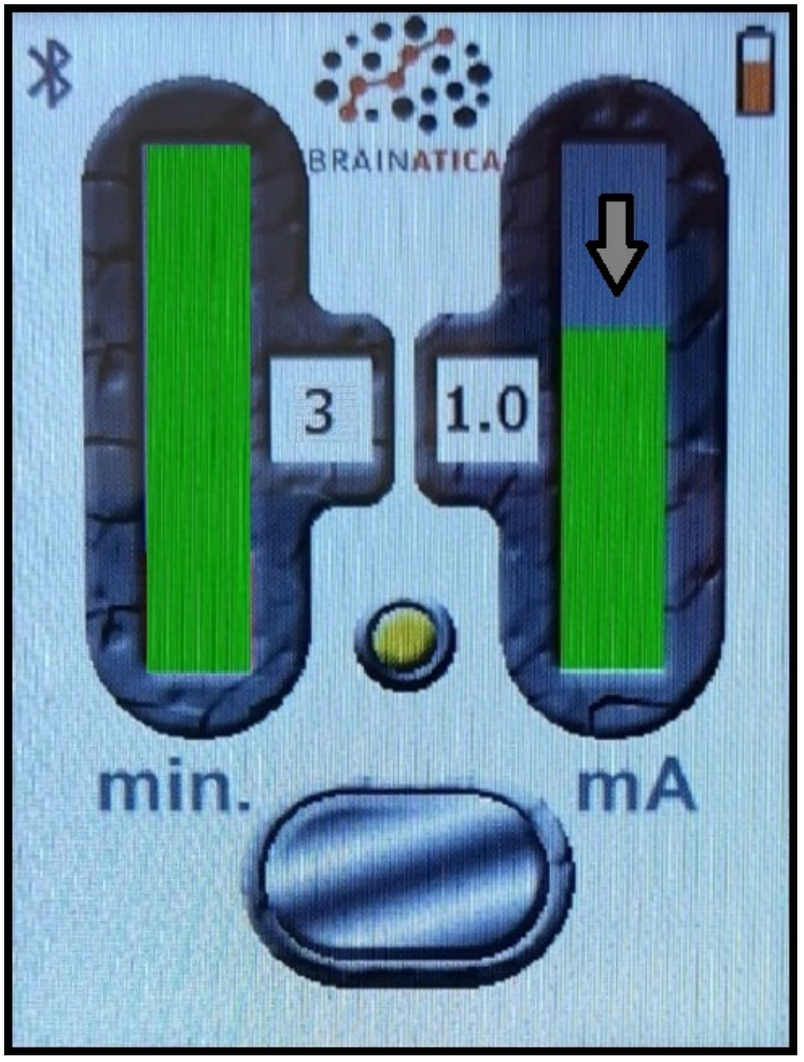
3.4. APPLICATION SCREENS

1. Opening screen

2. Current increase screen

3. Stimulation screen

4. Current decrease screen



5. Return to start screen

4. USAGE FREQUENCY

According to research, the tDCS device should be used once or twice a day, with each session not exceeding 30 minutes.

5. SAFETY

The tDCS device transmits ultra-low amounts of electric current for safety and effectiveness purposes, ranging from 0.5 mA to 2 mA.

6. MAINTENANCE AND STORAGE OF THE DEVICE

- We recommend storing the **Brainatica tDCS** device in its box when not in use.

- The device should be kept within a usage temperature range of 0°C to 45°C.

- After using the device, maintenance of electrodes and sponge, as described under the '**Application Process**' on page 12 of the User Manual, is necessary.

7. CONTENT OF THE PACKAGE

- 1 Electronic Circuit Box
- 1 Connecting Cable
- 2 Carbon Electrodes
- 2 Sponges
- 1 User Manual
- 1 Headband

IMPORTANT NOTE:

In case you have problems with the device, you can send us a message via the form on the **www.brainatica.com/destek** page, and you can reach us via the e-mail addresses and phones on our web site.

CONTACT US

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EU DECLARATION OF CONFORMITY

AB UYGUNLUK BEYANI

Manufacturer name *Üretici adı* **Manufacturer address** *Üretici adresi*	BRAİNPARK FİKRİ VE MÜLKİYET HAKLARI YAZILIM MEDİKAL SANAYİ VE TİCARET ANONİM ŞİRKETİ GOSB Teknopark Kemal Nehrozoğlu No:1/2HB Gebze / Kocaeli / Turkey
Product specification *Ürün tanımlaması* **Model number** *Model numarası* **Trade name(s)** *Marka adları*	**Transcranial Direct Current Stimulation Device** *Transkraniyel Direk Uyarım Cihazı* **V1** **Brainatica tDCS®**
European directive(s) *İlgili AT direktifleri*	**Electromagnetic Compatibility Directive (2014/30/EU)** *Elektromanyetik Uyumluluk Yönetmeliği (2014/35/AT)*
European standart(s) *İlgili AT standartlar*	**EN 55014-1:2017+A11:2020** **EN 55014-2:2015** **CISPR 14-1:2020** **CISPR 14-2:2020**

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Bu uygunluk deklarasyonu üreticinin kendi sorumluluğunda düzenlenmiştir.

The object of the declaration described above is in conformity with the relevant European Union harmonization legislation:

Yukarıda açıklanan deklarasyonun amacı, ilgili Avrupa Birliği uyum mevzuatı ile uygun olduğudur

Signed for and on behalf of the BRAİNPARK FİKRİ VE MÜLKİYET HAKLARI YAZILIM MEDİKAL SANAYİ VE TİCARET ANONİM ŞİRKETİ

BRAİNPARK FİKRİ VE MÜLKİYET HAKLARI YAZILIM MEDİKAL SANAYİ VE TİCARET ANONİM ŞİRKETİ adına

Signature

İmza

Name, Function *(İsim, Görevi):* **Ahmet Furkan Tarhan, General Manager** *(Genel müdür)*

Place of issue *(Yayınlanma yeri):* **Kocaeli – Turkey**

Date of issue *(Yayınlanma tarihi):* **12.03.2021**

BRAINATICA

Brainatica tDCS is a registered trademark of BrainPark Inc., which operates within Üsküdar University BrainPark Incubation Center.

tDCS

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