

DATA SHEET

# Transcranial Electrical Stimulator tes4me

Personal mobile 8-channel system for transcranial electrical stimulation.

REF	Size	Head circumference
<b>833784586</b>	XL	60-66 cm
<b>733506823</b>	XL/L	57-63 cm
<b>162789701</b>	L	54-60 cm
<b>715661818</b>	L/M	51-57 cm
<b>496832740</b>	M	48-54 cm
<b>110166244</b>	M/S	45-51 cm
<b>177426236</b>	S	42-48 cm
<b>145681417</b>	S/XS	39-45 cm
<b>391757024</b>	XS	36-42 cm



## SET

- Electrical stimulator unit tes4me - 1 pc.
- Lead cable – 1 pc.
- Lead cable retainer – 1 pc.
- Electrodes for stimulation – 8 pcs.
- Textile cap MCScap LIGHT – 1 pc.
- Reusable sponge D22 – 10 pcs.
- USB cable for charging tes4me - 1 pc.
- User Manual
- Plastic box tes4me - 1 pc.

## INTENDED USE

Transcranial electrical stimulation (TES, tACS).

## DESCRIPTION

Transcranial Electrical Stimulator tes4me is a programmable portable 8-channel generator of electric current of modulated frequency and amplitude (hereinafter referred to as an *electronic unit* or *stimulator*) with control elements, a set of non-invasive stimulation electrodes and accessories. The product operates from an internal power source (battery).

The operating mode and characteristics of electrical stimulation are set using special software and transmitted to the electronic unit via local wireless communication. The software is installed on a mobile device (phone, tablet) or PC.

## SPECIFICATION

Channels	8
Max current	4 mA
Stimulation current modes	Direct current (DC) (default), Alternating current (AC), Alternating current monopolar (ACM)
Shape (for AC and AC monopolar current)	Sine Random Square Ramp Trap Sin(X)/X Gauss
Repetition of periods of current waveforms for modes AC, ACM	Continuously, BlockPause
DDS generator frequency / bit width	8 kHz / 13 bit
Operating resistance range	Impedance – less than 8 kΩ
Checking the electrode connection before stimulation	Yes
Lower cutoff frequency at -3 dB (for Random mode)	from 10 to 500 Hz (set programmatically)
Upper cutoff frequency at -3 dB (for Random mode)	from 50 to 1000 Hz (set programmatically)
Wireless	BLE 4.2
Power	Internal Li-ion battery (rechargeable)
Nominal battery voltage	3.7 V
Nominal battery capacity	0.9 Ah
Number of batteries in one unit of product packaging	1 pc.
Charging of internal battery	from +5V USB adapter, 500 mA
Full battery charge time	≤ 2.5 hours
Check of battery status	Yes. Hardware Intelligent based on counting charge current / discharge current / time and storage temperature
Material of electrode conductive surface	Low Corrosion Stainless Steel AISI 316
Surface area of contact of the electrode substance with the skin	380 mm <sup>2</sup>
Time of continuous work	not less than 8 hours