Starstim[®] tES-EEG systems

Key Features

Powerful, mobile. wireless

The only ultralight and portable multi-channel tES device with rechargeable batteries lasting up to 5 hours.

Easy set-up

Despite complexity of traditional technology, our adult and child headsets can be set up in just a few minutes.

Any tES waveform

tDCS/tACS/tRNS, custom waveforms or temporal interference configurable for bipolar, 4x1, or on each of up to 32 channels.

Multi-step tES-EEG protocols

Design the whole tES procedure with pre-, post- or simultaneous EEG and let the device do the rest.

Cortical visualization of tES electric field

State-of-the-art visualizations of how your protocol's current will be distributed in the brain.

Proprietary hybrid & sponge electrodes

Handy hybrid tES-EEG Ag/AgCl electrodes as well as sponges in the size of your choice.

Family products comparison

Hi-Tech Applications	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	~~~	~~	~~~	-

Service

Warranty Modeling Services

Customer Service

Free lifetime customer support + one-on-one expert assistance

Exclusive personalized model-driven

2 years standard / 5 years GOLD

montage optimizations.

Modeling Services

Exclusive model-driven tES protocol optimizations

At NE®, we develop advanced computational algorithms to provide you with a wide range of modeling services. With your inputs, our team of scientists will tailor them to your individual montage.

Head model creation

NE® electric field analytics



Montage optimization: Stimweaver algorithm

EEG source localization: NE® cortical mapper



Advances (2019)

Dagan, Moria, et al., Multitarget transcranial direct current stimulation for freezing of gait in Parkinson's disease. Movement Disorders (2018)

Recommended publications

Sprugnoli, G., et al., Reduction of intratumoral brain perfusion by noninvasive transcranial electrical stimulation. Science

Alekseichuk, Ivan, et al., Electric field dynamics in the brain during multi-electrode transcranial electric stimulation. Nature Communications (2019)

Neri, F. et al., A Novel tDCS Sham Approach Based on Model-Driven Controlled Shunting. Brain Stimulation (2019)

Fischer, David B., et al., Multifocal tDCS targeting the resting state motor network increases cortical excitability beyond traditional tDCS targeting unilateral motor cortex. Neuroimage (2017)

Antal, A., et al. Low intensity transcranial electric stimulation: safety, ethical, legal regulatory and application quidelines. Clinical Neurophysiology (2017)

Ruffini, Giulio, et al., Optimization of multifocal transcranial current stimulation for weighted cortical pattern targeting from realistic modeling of electric fields. Neuroimage (2014)

NE

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NE neuroelectrics®

Unique and all-in-one solutions for wireless multi-channel brain stimulation and monitoring

Complex tES research madesimple

starstim

Starstim® tES-EEG systems. Unique and all-in-one solutions for wireless multi-channel brain stimulation and monitoring.



Starstim[®] tES-EEG system is our unique, all-in-one wireless system for simultaneous brain stimulation and monitoring.

Welcome to the next generation of precise multi-focal tES-EEG devices with 8, 20 and 32 channels, and an intuitive user interface for protocol design and real-time visualizations. A perfect solution for double-blinded studies.



Complex tES research made simple.

Leading the clinical evidence

A renowned and trusted solution for pioneers in pain, epilepsy, Alzheimer's, stroke, rehabilitation, depression and addictive disorders research with numerous publications every year.

All-in-one tES-EEG

Freely customizable tES waveforms and montages allow for advanced investigations with simultaneous monitoring as well as closed-loop applications.

High precision in your research

Exclusive model-driven tES protocol optimizations and personalizations to maximize the effects of stimulation and accurately interpret the results of your experiment.



US CAUTION: US Federal Law classifies Starstim as an investigational device. Europe: Starstim is classified as a research use only device.

Simultaneous Brain Stimulation and Monitoring (tES-EEG)



