

starstim 32^{NE}[®]

NE
neuroelectronics[®]

MULTI-CHANNEL NEUROSTIMULATOR
WITH 32 HYBRID CHANNELS
FOR tCS AND EEG



It's time to close the loop!

NONINVASIVE WIRELESS HYBRID EEG/tCS NEUROSTIMULATOR



Wireless & hybrid device

Starstim 32 is a wearable device that wirelessly transmits the 32-channel data via wifi. Its hybrid electrodes can be used for electrical stimulation (tDCS/tACS/tRNS) or EEG recording.

Real-time EEG during tCS

Starstim 32 combines high-resolution tCS with EEG monitoring in real time. Each channel is independently assigned to tCS or to EEG.

Multi-electrode montages

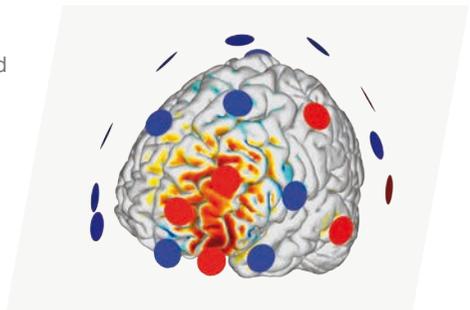
Synchronized multi-focal target stimulation of specific brain networks.

Closed-Loop experiments

The low-latency wired connection is ideal for closed loop stimulation derived from EEG measurements.

Target Optimization

Coupled with Stimweaver optimization services, Starstim offers personalized solutions that allow iterative target adjustments for tCS.



Number of channels: 20 or 32

EEG sampling rate: 500 SPS

EEG bandwidth: 0 - 125 Hz (DC coupled)

Stimulation types: tDCS, tACS, tRNS, and customised waveforms

Stimulation sampling rate: 1000 SPS

Stimulation frequency range: 0-250 Hz (tACS) ; 0-500 Hz (tRNS)

Data transmission: wireless (wi-fi network) or wired (USB cable)

Accelerometric data: tri-axial @ 100 SPS