



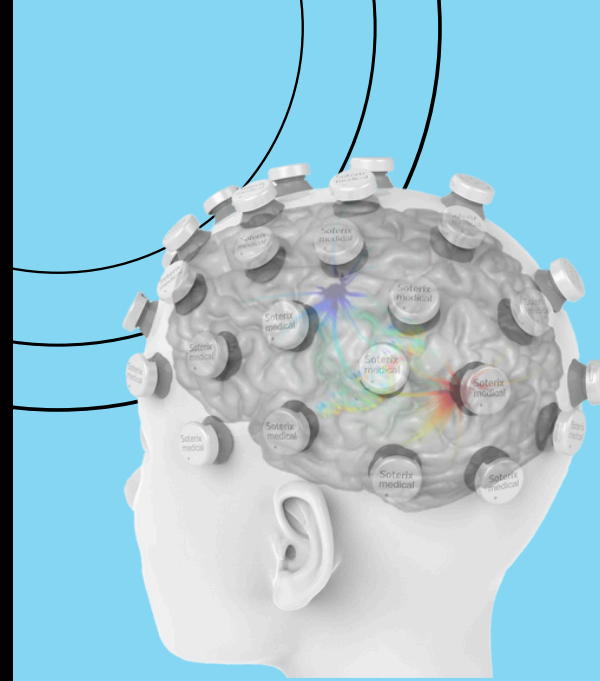
The Soterix Medical MxN-PRO HD-tES/HD-tDCS stimulator allows fully programmable waveform control across up to 128 channels.



MRI-guided Neuronavigation combined with Neurotargeting software allows for the selection of any superficial or deep brain target with unmatched control.



Full software control allows seamless integration with behavioral tasks, imaging such as EEG and fNIRS, and synchronization with external devices.



Whether you want to apply standard HD-tES protocols or establish new ones, our scientific team is ready to work with you to determine optimal dose parameters and accessories.



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MxN-PRO HD-tES

FULL SOFTWARE CONTROL

DEVICE FEATURES



BASIC MODE

Program typical tES waveforms (tDCS, tACS, tRNS), intensity, duration, frequency (0.001-5 KHz) where applicable, ramp time, and ramp occurrence.

ARBITRARY MODE

Load any waveform from samples in a text file with a sampling period under 5 μ s and frequency as low as 0.001 Hz.

BLINDING

Single or Double blind operation.

MxN MONTAGE

Combine anodes and cathodes in any combination to implement any montage.

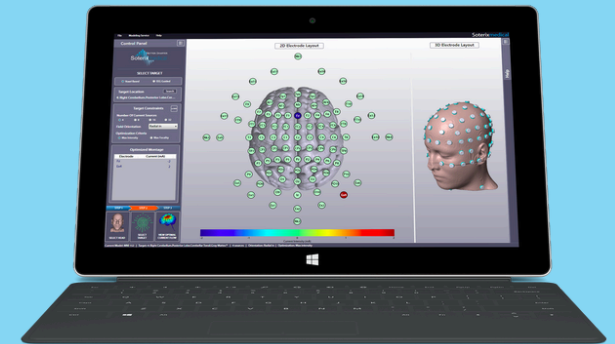
SINGLE CHANNEL SELECTION

Same stimulation settings are applied automatically for all channels.

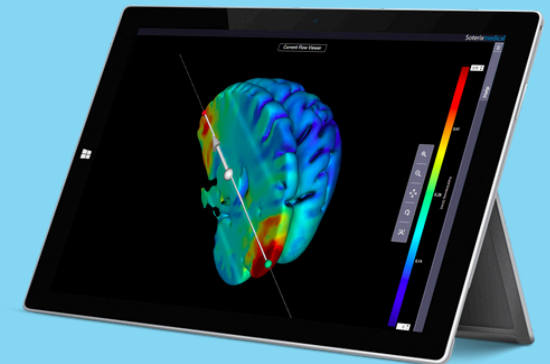
MULTIPLE CHANNEL SELECTION

Allows application of individual waveforms through selected channels.

HD SOFTWARE COMPATIBLE



HD-Targets provides the optimal electrode placement for a desired brain target.



HD-Explore allows exploring brain current flow for any electrode montage.

MxN-PRO TECHNICAL SPECIFICATIONS



Up to 128 isolated programmable current-controlled sources with common ground to ensure current conservation at all times.

In Basic sub-mode:

Allows delivering standard (non-arbitrary waves): tDCS, tACS, and tRNS

Intensity: Adjustable from -3.00 mA to +3.00 mA with 0.01 mA resolution on any individual channel. Total Net Intensity allowed = 10 mA

Precision: 1% over full current range.

Duration: Adjustable from 3 - 7200 sec (1 sec resolution)

Delay: Adjustable from 0 – 600 msec (1 msec resolution)**

Waveform Polarity: Unipolar or Bipolar

Ramp duration/s: Adjustable from 0 – 127 sec (1 sec resolution)

Frequency: Adjustable from 0.001 to 5,000 Hz (0.001 Hz resolution)**

Max compliance voltage: ± 30 V per channel.

Delay functionality: The delay value set adds up as the channel number increases. For instance, if the delay is set to 50 ms - Ch1 would start normally, Ch3 would start 50 ms after Ch1 start, Ch5 would start 50 ms from Ch3 start (or 100 ms from Ch1 start and so on).

In Arbitrary sub-mode:

Maximum number of samples: 128k samples for each channel

Sampling time (sample period): $>5 \mu\text{s}$

Frequency: Adjustable from 0.001 to 5,000 Hz (0.001 Hz resolution)**

** Use either odd or even numbered channels when using the delay or frequency setting as consecutive channel pairs (1-2, 3-4, 4-5, etc.) cannot be set to have a delay or frequency between them. Note: Setting independent frequency on independent channels is allowed in the Basic sub-mode but not in the Arbitrary sub-mode

Waveform load time: 75 ms***

***Load time is independent of Windows OS related delay time.

For more information please contact:



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