MIND-ACQUITY

TDCS *with impedance monitoring*

Portable Hand held unit
MA-TDCS-V2

Transcranial Direct Current Stimulation (tDCS) is a non-invasive procedure in which a device sends a small Direct Current (DC) across the scalp to modulate brain function. The tDCS System sends highly precise, controlled and safe low level currents from the positive electrode, anode, to the negative electrode, cathode. When the extremely low level current passes from the anode to the cathode, it may simultaneously increase the activity of the brain by the anode and decrease the activity of the brain near the cathode. tDCS mechanisms are considered to result from the ability of very weak DC currents to safely induce reversible changes in cortical plasticity. The induction of lasting changes in cortical excitability can, under some conditions, reversibly modify behavior and interact with normal learning. Such findings have driven a large number of studies examining whether tDCS might induce functionally significant changes in patients with a large variety of neurological and psychiatric disorders. We also offer customized models for research and clinical purposes.

Specifications of tDCS System

Electrical specifications:		
Min current	:	0,01mA
Max current	:	4,00mA
Current control	:	0mA to 4mA linearly variable using high precision variable control
Display parameter	:	Online impedance monitoring Online delivered current display Patient data storage Graphical reporting
Output current protection	:	4,00mA
DAC	:	12bit Samples
Current correction time	:	10ms
Precision	:	±0.004mA
Ripple (RMS)	:	25mV
Tip: anode (+) Ring	:	cathode (–)
Electrodes	:	Wet type foam in rubber with flexible band
Power source	:	1x 9V alkaline batteries
Battery life	:	12 hrs continuous operation.
Connector type	:	2.5mm jack / 4mm socket
Min Max Temperature	:	14 °C 28 °C
Humidity (non-condensing)	:	70%
Atmospheric pressure	:	700hPa 1060hPa
Storage limits		
Min Max Temperature	:	0 °C 60 °C
Humidity (non-condensing)	:	70%
Atmospheric pressure	:	700hPa 1060hPa

Walnut Medical™
277 Model Town Ambala City Haryana 134003 +91-9650622772
www.walnutmedical.in contact@walnutmedical.in