

ENABLED BY
NANOLEQ



ElectroSkin

INFOSHEET

Setting the standard for textile electrodes with high quality signals.

The future will see the democratization and standardization of e-textiles as they bring various benefits in health and wellbeing and open up new possibilities for sensing, activation and monitoring in sports, workwear, military and automotive applications. Despite the trend toward smart textiles, the electronics and textile industries did not merge successfully yet. E-textiles are not practical, comfortable or long lasting. The integration of electronics to textiles is cumbersome and labour intensive.

Based on a novel conductor material technology, Nanoleq created ElectroSkin, a hybrid polymer-textile electrode solution. ElectroSkin combines a biocompatible surface with optimal skin impedance and excellent signal quality. It is comfortable and can be used in a dry state (without wetting). ElectroSkin is ultrathin, elastic and highly washable. It can be integrated onto garments in a one-step lamination process. Connecting ElectroSkin is fast and reliable thanks to a smart connection interface. Textile manufacturers can now easily form electrical connections, without electronics expertise and without the need for crimping or soldering.

Adopt the new electrode standard with ElectroSkin.

Nanoleq is a Spin-Off of ETH Zurich launching a radically new e-textile connectivity solution. Our technology has won many awards.

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Forbes



EU - Eurostars



high washability



ultra flexible



low skin impedance



light



high SNR



easy lamination & connection



ElectroSkin SENSE

ElectroSkin SENSE contains combination of textile and conductive polymer layers, optimized for a minimal skin impedance and maximal signal quality, without the need for wetting.

ECG



EMG



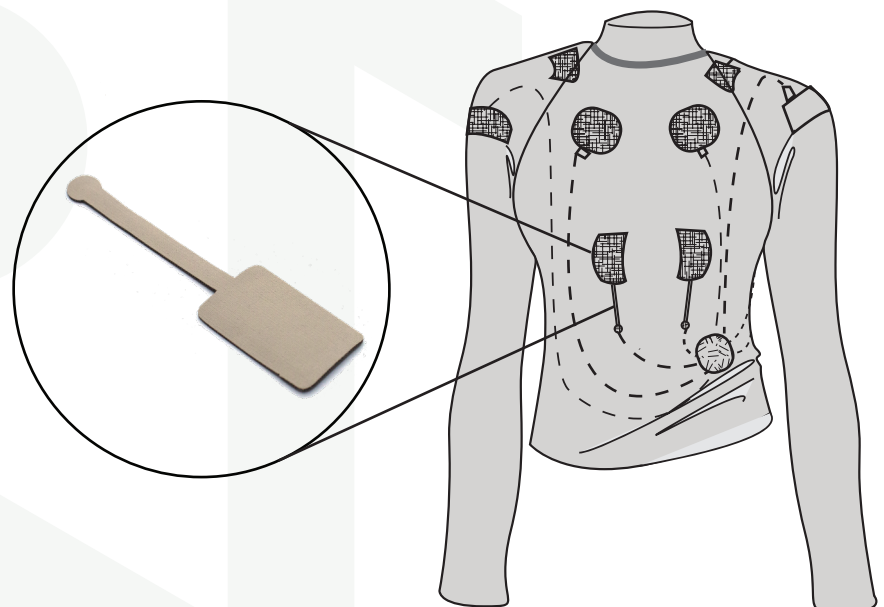
EEG



ElectroSkin STIM

The skin contact surface and elastic modulus of ElectroSkin STIM is optimal for comfortable electrostimulation for long lasting e-textiles.

Electrostimulation



Biocompatible according to ISO 10993-10.