

Dry, easy to set-up SimplEEG headband



Product Details

SimplEEG headband is an innovative dry EEG headband designed for rapid and easy setup, requiring less than five minutes to apply by non-specialists. The headband features soft, dry foam electrodes coated with polymeric *FlexElec* technology, enabling high signal fidelity without the need for conductive gel. This gel-free design provides comfort for extended use and supports both short-term and long-term EEG applications. The *SimplEEG headband* is a reusable solution tailored for clinical and daily environments, combining ease of use, durability, and reliable performance.

Key Benefits

- > Dry, no gel required
- > Quick <5min set up
- > Reusable & moisture resistant
- > Long-term measurements
- > Clinical research
- > Brain computer interfaces
- > Sleep studies
- > Sporting
- > Gaming
- > Wellness tracking

Applications Specifications

Components		Dimensions	
Cap material	Stretchable Silicone	Universal size – adjustable fastener for customized fit	
Electrode material	Soft <i>FlexElec</i> Foam		
Electrode preparation	None		
Number of channels	5		
Reusability		Safety	
Typical number of uses	20	Cytotoxicity test (ISO 10993-5)	No cytotoxic effects (in-house); external testing underway
Typical use time	7 days		
Shelf life	6 months		
Electrical data		Skin irritation	No redness or irritation; minimal indentation, resolved within 30 min
Skin-contact impedance* - typical		 	
10 Hz	1.7 MΩ		
100 Hz	592 kΩ		
1 kHz	78 kΩ		
Impedance stabilization time	5 min		

Polymer Bionics Limited

<https://www.polymerbionics.com>

Company Registration No: 13434841.

Registered Office: Unit 1, Cambridge House, Camboro Business Park, Oakington Road, Girton, Cambridge, Cambridgeshire, CB30QH, United Kingdom.

*Skin contact impedance values measured on human subjects using the reference electrode as both the reference and counter electrodes. Impedance values will vary from subject to subject based on the relative fit at each electrode site.

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