

EEG headset

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Imec headset

The Imec headset is an EEG headset which does EEG signal extraction on 8 channels. It is designed to be noise robust with algorithms for artifact filtering.

The headset is able to send its measurements over USB with a custom Imec protocol and over Bluetooth (Low Energy). When sending over Bluetooth low energy a USB dongle from Imec is able to receive the data so it can be used in Windows. The session data recorded by the Imec headset can also be saved in an HDF file (Hierarchical Data Format). The datastream sent over BLE follows a proprietary protocol only known to Imec.



HDF format

When saving a session with the Imec headset it is saved in the HDF format. HDF stands for Hierarchical Data Format. The HDF format used by Imec has the following layout:

