

Ambulatory Headbox Specifications

- The headbox supports 24 AC referential channels for the acquisition of EEG data, 4 differential pairs, 4 DC channels, one ground and one reference.
- The headbox samples at multiple-sampling frequencies including 200 Hz, 256 Hz and 512 Hz. The user selects the appropriate sampling frequency for the study.
- The headbox has 16-bit resolution and be able to acquire referential signals between +/- 10 mV and differential signals between +/- 20 mV to 0.3 μ V.
- The headbox has a commercially available pouch.
- The patient can trigger events while the study is being recorded. These events are visible when reviewing the study.
- The headbox can be used on patient while connected to computer.
- Future option - the headbox shall have support for an external pulse oximeter.
- For the minimal configuration EEG case (lowest sampling frequency and no pulse oximeter), the headbox is capable of storing data and running on batteries for at least 48 hours.
- The time to remove 48 hours of data off of the headbox is less than 8 minutes.
- The headbox supports an impedance check on all AC channels including the reference channel.
- The headbox supports a square wave channel test.
- The headbox uses commercially available batteries.
- The headbox connects to a standard PC through USB.
- The headbox allows for a DC power input from an isolated external power adapter.
- These include requirements related to user interface, labeling, ergonomics and are sensitive to human errors and training
- The headbox indicates that it is sampling.
- The headbox indicates that it has power.
- The headbox does not have a total volume more than 350 cm³ (about 300 cm³).