muse™

Muse Developer Resources

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Muse Headband Specs

- Flexible, adjustable, lightweight headband with 7 sensors capable of reading 4 channels of data - two on the forehead and two behind the ears
    - Produces bipolar readings using Fpz(center of forehead) as the reference for TP9(top of left ear), Fp1(left forehead), Fp2(right forehead), TP10(top of right ear).
    - 1 REF sensor at Fpz and 2 DRL sensors on the forehead.
    - The 7-sensor montage enables estimation of hemispheric asymmetries (with an emphasis on the pre-frontal lobe) and thus facilitates brain-state discrimination that depends on asymmetry, such as emotional valence (positive vs. negative emotions).
    - EEG signals are oversampled and then downsampled to yield an output sampling rate of 220 Hz, with 2uV (RMS) noise. Active noise suppression is achieved with a DRL - REF feedback configuration using centrally positioned frontal sensors.
    - Input range of AC coupled signal (low cutoff at 1 Hz) is 2 mV p-p.
- An on-board 3-axis accelerometer enables motion input for games and for quantifying head movements.
- Communicates over Bluetooth and is compatible with iOS (iPhone 4+, iPad 2+, iTouch 5+), Android 2.3+, Mac OS (OSX 10.8+), Windows 7 & 8 and Ubuntu Linux LTS releases.
- Rechargeable lithium-ion battery (charge via micro-USB jack, just like most cell phones). Lasts up to 5 hours of use per charge. Typical lithium-ion batteries last a minimum of 500 charge cycles. Thus if you use Muse for 15 minutes a day the battery should last at least 27

years.
- Battery fuel gauge which measures the amount of remaining battery.
- 5 LEDs which display various states of operation.

Subpages (3):   Bluetooth Dongle Recommendations   LED Sequences
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