B-Alert Series MOBILE EEG

The B-Alert wireless EEG systems delivers high-quality EEG and physiological signals for non-medical use. The wireless, portable design of the B-Alert allows mobility during recordings, while also aiding in the reduction of signal artifacts typically encountered with wired systems. With an all-soft interface and small, lightweight enclosure, the B-Alert systems can be worn comfortably for hours and are robust to withstand a variety of laboratory and real-world environments. New features include audio notifications and faster impedance checks. The X-Series Software and SDK are also included with each headset to enable the development of custom applications, with vast potential for integration possibilities.

B-Alert Product Features:

- Dependable Bluetooth wireless encoding
- 8+ hours rechargeable battery life
- On-board accelerometer to quantify head movement and position
- Sizing options to fit children through adults
- Rapid removal and easy cleaning for repeated use





Ideal for EEG-based Biomarkers and NeuroRehabilitation

- Up to 24 channels sampled at 256 Hz
- International 10-20 system (+POz) and one optional channel for ECG, EOG, or EMG
- Comfortable, unobtrusive design sets up in about 20 minutes
- Performs full functionality with NeuroGuide Software®



B-Alert X 101

Optimal for NeuroMarketing and Team NeuroDynamics

- Up to 10 channels sampled at 256 Hz
- Reduced International 10-20 system and one optional channel for ECG, EOG, or EMG
- Lateral and midline montage applied in less than 10 minutes
- Contains sensor sites required for running Cognitive State and Cognitive Workload Metrics*



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EEG:	Number of channels	up to 23	9
	Dynamic range	+/- 1,000μV	
Optional:	Number of channels	1	
	Dynamic range	+/- 1,000 - 2,000μV	
Sampling rate		256 samples/second - all channels	
Resolution		16 bit	
Input impedance		500 MΩ, typical	
Common mode rejection ratio		-115 dB, typical	
Noise		3 μV peak-to-peak, typical	
Bandpass characteristics		0.1 Hz HPF Firmware, 67Hz LPF Hardware	
Head movement/position		Angles obtained with 3-axis 12-bit accelerometer	
RF band		Bluetooth 2.4 to 2.48 GHz (ISM band), latency < 340ms	
Transmission mode		Bluetooth SPP 2.0- via USB Dongle or External Syncing Unit	
Data transmission power		~10 meters, line of sight with onboard antenna	
Transmission power		Class 2 +4dBm	
Li-ION batteries capacity:		650 mAh	
Power consumption		~ 60 mA	
Typical acquisition time		8+ hours of continuous wireless	
Battery charging		Via USB cable connected to USB port or USB wall charger	
On-line impedance monitoring		Initiated by host computer using Bluetooth	
Head unit dimensions		Size: 2.7"(L) x 1.9"(W) x 0.8"(H); Weight: 2.0 ounces	
User control		On/Off	
Indicator LEDs		Green/Amber	
	SEI	NSOR HEADSET & ACCESSORIES	
Sensor arra	ay	Referential: either Standard 10-20 (+ POz) or Neurological	Referential: Fz, F3, F4, Cz, C3, C4, POz, P3, P4
Sensor strip sizes		X-Small, Small & Medium – each site +/- 1 cm of 10-20 system	
Electrode cream		Highly conductive electrolytes and preservatives in hypoallergenic base, buffered to skin pH	

Indications for Use:

The B-Alert System is not intended for the diagnosis or treatment of patients. They are intended for non-medical applications (e.g., human factors, ergonomics, neurogaming, neuromarketing, neuroleadership, team neurodynamics, brain computer interfaces, etc.) and IRB-approved human subject research.



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