

Going Wireless has never been so easy!

The MOVE wireless system changes the entire concept of EEG research. Until now, subjects had to remain seated or lying down while they were physically connected to the amplifier. The MOVE system replaces the cables between the electrodes and the amplifier with wireless communication. **This allows the subject to move freely!**

Paradigms which cannot be used with standard cabled EEG systems may now become part of everyday research, and normal experiments will become more convenient for the participants.

The possibility of free movement is extremely important in the field of **Brain Computer Interface (BCI), neurofeedback and motor learning.**

How does the MOVE system work?

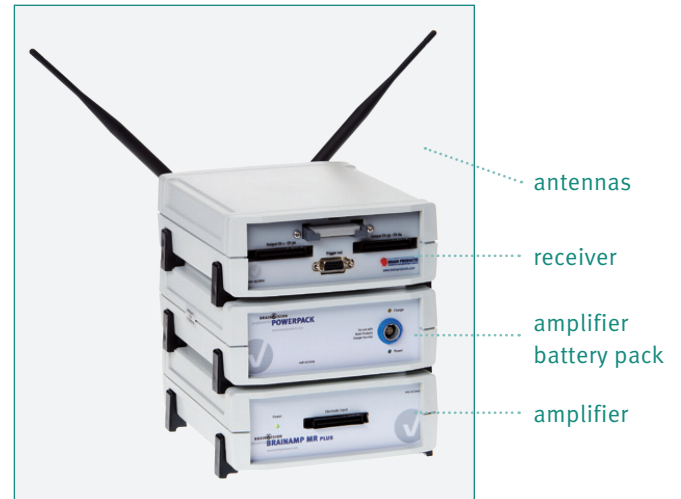
The small, lightweight transmitter box is connected to the electrode cap system, while the receiver is linked to the amplifier. The transmitter amplifies and digitizes the incoming raw analog signal and sends it to the receiver, where digital data is converted back to analog form again. Since the amplifier factor of the entire system is 1:1, the existing EEG amplifier receives exactly the same data as previously.

If the data is not received properly, the receiver unit will send a TTL pulse marker to the amplifier. Another marker is sent when receipt of data has again become reliable and stable.

This feature is extremely useful during the data analysis stage, as the user knows exactly when the wireless connection wasn't functioning correctly. A single transmission unit is able to handle 64 channels. However, five units can be operated in the same location, which could either allow two subjects (64 channels each) or one participant with twice the number of electrodes (128 channels).



transmitter (Product similar to picture)



(Product similar to picture)

What makes the MOVE system unique?

- **It can be used with virtually any existing amplifier-electrode combination.** As the transmitter is not integrated in the EEG cap but is instead simply connected to it, it is possible to use this new system without changing the existing experimental setup. All existing connections between your EEG amplifier and the acquisition computer as well as the recording software, remain unchanged.
- **With the MOVE there is no risk of damaging the transmitter while cleaning the cap.** Unlike some of the wireless systems already available on the market, the transmitter is not integrated in the cap. Thus, when you clean the cap, you simply need to disconnect the transmitter and clean the cap like you have always done!
- **The MOVE is inexpensive!** The MOVE system comprises a transmitter and a receiver module ONLY. You don't need to buy brand-new amplifiers and EEG caps to go wireless!

Please note:

The MOVE system is intended to be used for research applications only and is not sold, designed or intended to be used as a medical device as defined in EU Directive 93/42/EEC, nor is it intended to be used for other medical applications such as diagnosis or treatment of disease. Brain Products shall not be liable for any use other than pure scientific and research applications. The MOVE hardware has been tested and certified as per the relevant EMC and electrical safety standards. A non-medical CE certificate is available on request.



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Technical Specifications:

Max. Number of Channels / Unit	64 channels
Max. Number of Channels total	160 channels
Low-pass Response	1000 Hz AD / 150 Hz bandwidth
High-pass Response	0.16 Hz
Digitization	18 bit AD / 16 bit DA
Quantization-resolution	0.1 μ V
Input Referred Noise	1 μ V

Gain	1
Input Range	+/- 16 mV
Input Impedance	10 MOhm
Battery Life on Standard Battery	around 14 hours
Battery Charge Time (with external fast charger)	around 5 hours

Technical changes can be made without prior notification.



(Products similar to picture)

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