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Smart Center Webinar Questions and Answers

Smart Center Webinar

Smart Center Systems Page

We recommend reviewing this BIOPAC Knowledge Base entry on preparing electrode sites and this document on fundamentals of electrode use. We also recommend viewing this video on the EL-CHECK electrode checker, as it provides a good video review of participant preparation and impedance verification.

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Recording with Smart Center

1. Q: If your lab protocols do not involve out of lab recording, would you still recommend the BioNomadix smart center?

   A: The Smart Center is very convenient because of its size and its ease of use, which are significant advantages for many labs. However, there are also some considerations regarding the type of data you are collecting and the number of channels you want to record. The MP160 allows you to collect data using both wired and wireless amplifiers and will also interface with the BIOPAC range of MRI smart amplifiers. We do have a table that helps to identify the best solution for your application and lab requirements.

2. Q: Can this be used for EEG recording?

   A: Yes, the BioNomadix EEG Transmitters will work with the Smart Center, but the system is limited to three Transmitters per Smart Center. The following link will provide you with information about the BioNomadix EEG Transmitter.
   https://www.biopac.com/product/bionomadix-2ch-wireless-eeg-Transmitter/

Wireless Recording Capabilities

1. Q: What is maximum unobstructed transmission distance?

   A: The BioNomadix system has a 10m line of sight requirement.

2. Q: What is the maximum sampling rate in wireless mode?

   A: The sample rate is 2,000 samples per second, per channel of data.

3. Q: If it lost signal due to the distance (>10m), if the subject come closer again, the system automatically reconnects and records again?

   A: Yes, the system will continue to record data after the system comes back into range. It is obviously better, if you know the range of the device in your recording environment and avoid going out of range.

Compatibility with Other Devices

1. Q: Does Mac OS version of Acq*Knowledge* support this device too?

   A: Yes, the Smart Center will work on Macintosh and Windows based machines.

2. Q: Can I recycle if I already have Transmitters for BioNomadix?

   A: Yes, existing BioNomadix Transmitters will work with the Smart Center. However, they must have firmware version 4.3 or above. The following link will provide you with additional information about the update. The same information applies to both the BioNomadix Logger and BioNomadix Smart Center. https://www.biopac.com/product/bionomadix-firmware-update/

3. Q: Can this device be synchronized with an fNIR device?

   A: Yes, the Smart Center can interface with the FNIR Devices FNIR systems. The FNIR Devices hardware has a trigger output that can interface with the Smart Center's digital I/O port. The FNIR amplifiers will send outputs when they start, start and stop baseline, and start and stop recording data. These triggers will allow you to synchronize the devices. Both systems can also interface with stimulus presentation systems such as E-Prime and SuperLab.

4. Q: Does this work with DA100c

   A: The DA100C is a tethered amplifier for the MP150 and MP160 systems. We do have modules that will function like the DA100C. If you contact our sales department, they will provide you with additional information.

5. Q: We are recording airflow via a TSD160 pressure transducer. Can this be recorded wirelessly?

   A: I would recommend contacting our sales department to discuss your application because there are many considerations for wireless airflow.