

## Enobio/Starstim integration with Neuroguide

### Enobio/Starstim setup

Since Neuroguide's neurofeedback requires linked mastoids reference, you need to place the cable labeled as Oz to the left earlobe using an earclip (or to the left mastoid using a sticker electrode). CMS and DRL should be connected using another earclip to the right earlobe (or sticker electrodes to the right mastoid), as shown in the images below. All the other electrodes should be connected using gel, dry or solidgel electrodes to the corresponding position, as indicated in the labels.



EARCLIP



STICKTRODE



Refer to these user manuals for further information

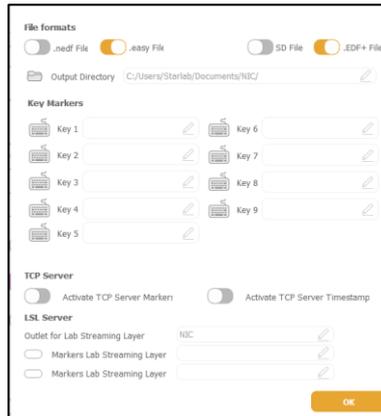
Enobio manual  
Starstim user manual  
Electrodes manual  
NIC software manual

All of them could be downloaded from the following link:

<https://www.neuroelectrics.com/documentation/>

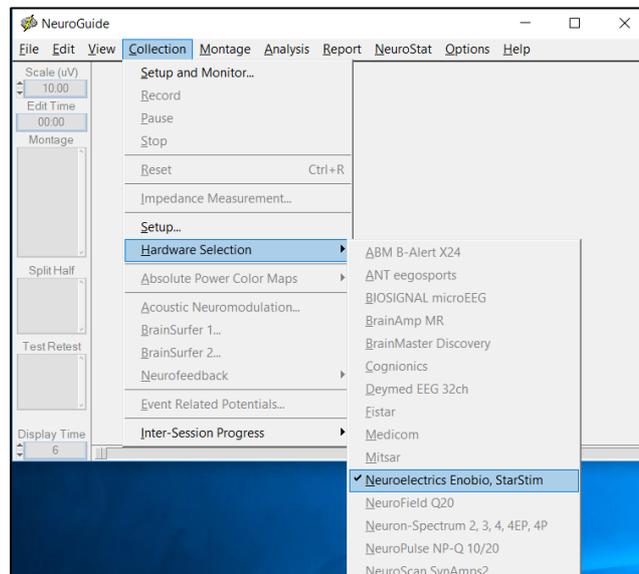
### **NIC-Neuroguide setup**

- 1- Download and install NIC 2.0 ([www.neuroelectrics.com/downloads](http://www.neuroelectrics.com/downloads))
- 2- Launch NIC and select Bluetooth, Wifi or USB devices depending on the type of device connection you have and click "Scan". When your device is detected, click "Use this device" and wait for it to connect. Note that Neuroguide only works with Enobio or Starstim with 20 or 32 channels (not with 8).
- 3- Once connected, create a new protocol with the default positions as explained in NIC software user manual
- 4- Go to Settings of that protocol and make sure that the name of the "Outlet for Lab Streaming Layer" is NIC. Load the protocol.

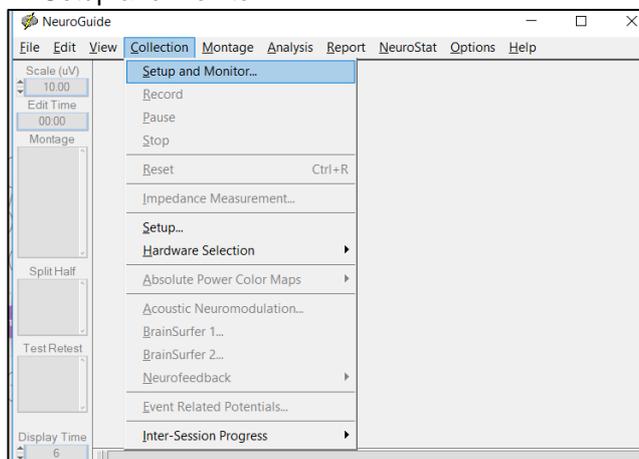


5- In the same computer, install and launch Neuroguide. You'll also need the "The NC collection module for Enobio/Starstim" (<http://www.appliedneuroscience.com/Order.htm>)

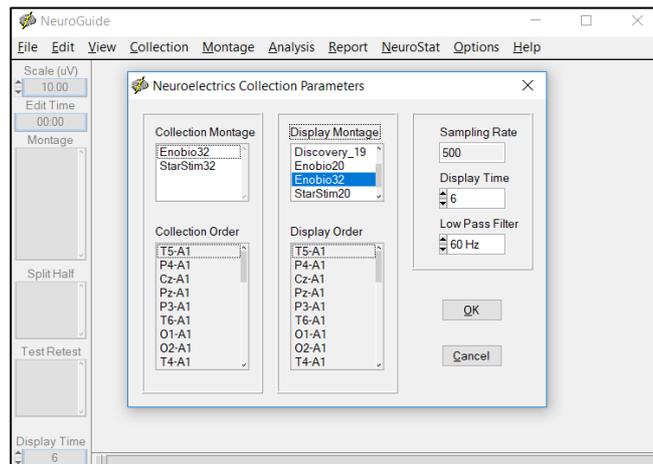
6- Go to Collection → Hardware Selection, and select "Neuroelectrics, Enobio, Starstim"



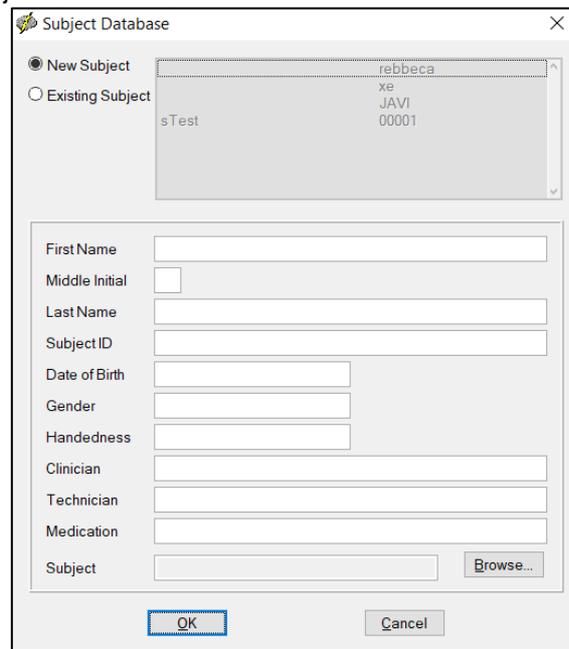
7- Go to Collection → Setup and Monitor



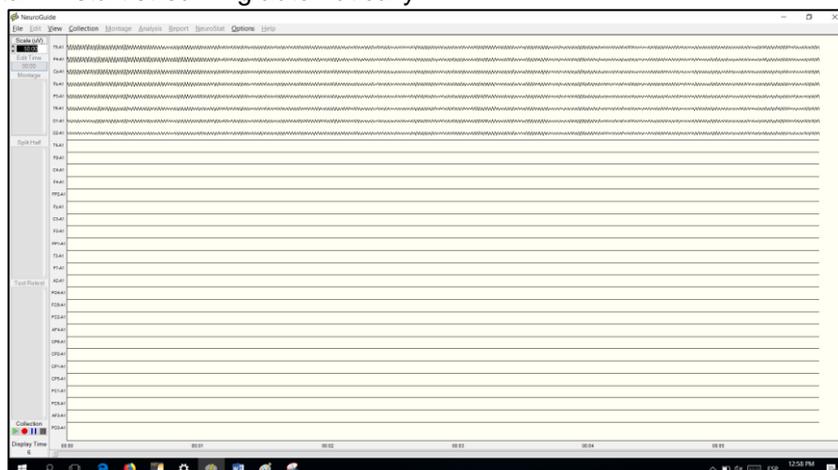
- 8- Select the device that you have (Enobio20/32 or Starstim 20/32) for Collection and Display montage



- 9- Introduce data of subject and click OK



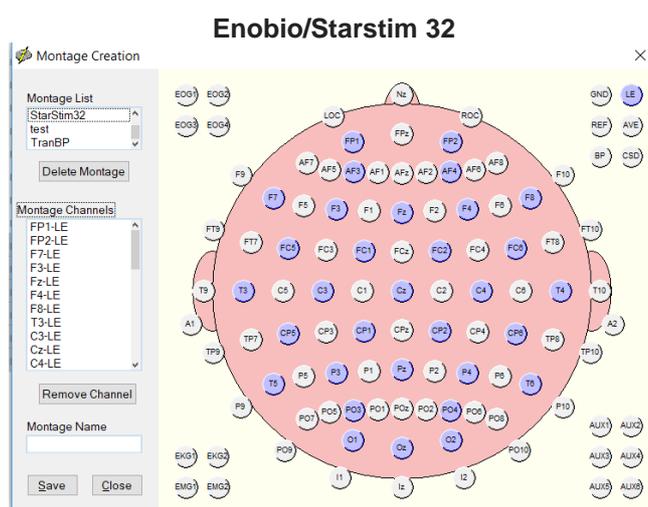
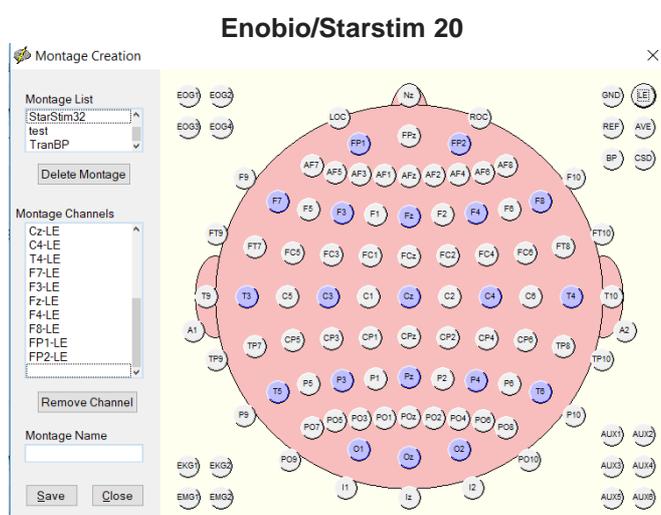
- 10- EEG data will start streaming automatically



11- When the recording finishes, if you want you can re-reference it to linked ears by going to the control on the left side of the edit panel called "Montage". Then double click on the "LinkEars" list item, as shown below.

Note that the following electrodes are labeled differently in NIC and Neuroguide:

- NIC 2.0 T7 → Neuroguide T3
- NIC 2.0 T8 → Neuroguide T4
- NIC 2.0 P7 → Neuroguide T5
- NIC 2.0 T6 → Neuroguide P8



If you experience any technical issues with Neuroguide, please contact Neuroguide's customer service: [http://www.appliedneuroscience.com/Customer\\_Service.htm](http://www.appliedneuroscience.com/Customer_Service.htm)

If you experience any technical issues with Enobio/Starstim or NIC, please contact Neuroelectrics' customer service by filling in this form: <http://www.neuroelectrics.com/support>