

Power Point Manual

Get On The
BUS



BrainMaster
Universe
Simplified



“19ch PZOK
BDX”
level 4

19chPZOK

Level 4

- The Level 1 and Level 2 PZOK Settings contain a ZScore Monitor, Level 3 contains Live Surface Brain Maps.
- Perhaps it would be convenient to add the Live LORETA Projector (LLP) to the PZOK settings so one may monitor surface and LORETA images of the brain.

All protocols are for demo and research purposes only. Clinicians must determine protocol choices. All protocols must be used within scope of practice and scope of competence.

FIRST: It is so very simple to make changes and experiment with BrainAvatar Settings Files without concern because if something just doesn't seem to work as planned, you always can reload the original Settings File you downloaded to your system.



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Consider manipulating the settings in your working folder as a sandbox. You can always replace it with the original setting file.



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Level 4

Let's Begin

- Make Sure the Discovery Amplifier is plugged in.

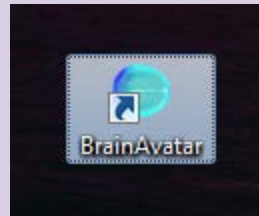


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Level 4

- Open BrainAvatar by double-clicking the BrainAvatar Icon.

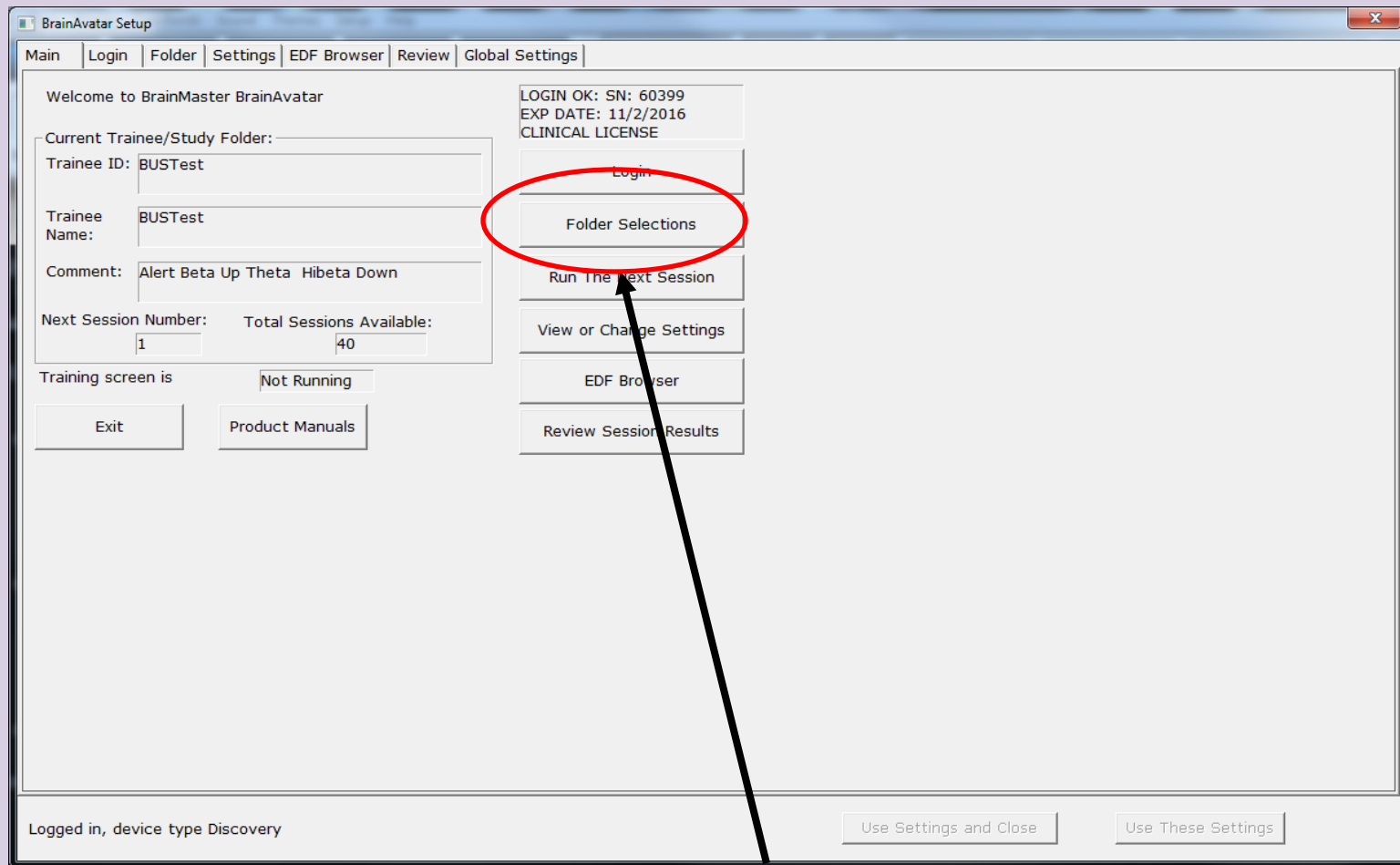


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- The Select Folder Screen will appear.
- By now you should know how to either create a new client folder or recall an existing client folder.
- For the purposes of this exercise let's open and utilize the "BUSTest" Folder which may already be resident on your system. If not, then create one.

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- The BrainAvatar Setup Window will Appear



- Click “Folder Selections”

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- The Select Folder Screen will appear.

BrainAvatar Setup

Main | Login | Folder | Settings | EDF Browser | Review | Global Settings

Select Folder | Create Folder | Folder Notes | Session Librarian | Edit Folder Info.

Select Folder: (you may double-click to select)

Study Name	Birth Date	Sess	Max	Comment	Technician	Physician	Trainee Name	Created	Modified
..									
BUSTest	2000-7-4	40		Alert Beta Up T...	EEG tech		BUSTest	2016-8-3	2016-8-3

Study Name (Trainee ID): BroJad4chPZOKP3P4O1O2

Trainee Name: BroJad4chPZOKP3P4O1O2

Comment: comment

Sessions Used: 4

Max Sessions: 40

Session Librarian

Administer Session Genie | Push Current Study to Server and Delete | Archive Current Study | Archive Current Study and Delete

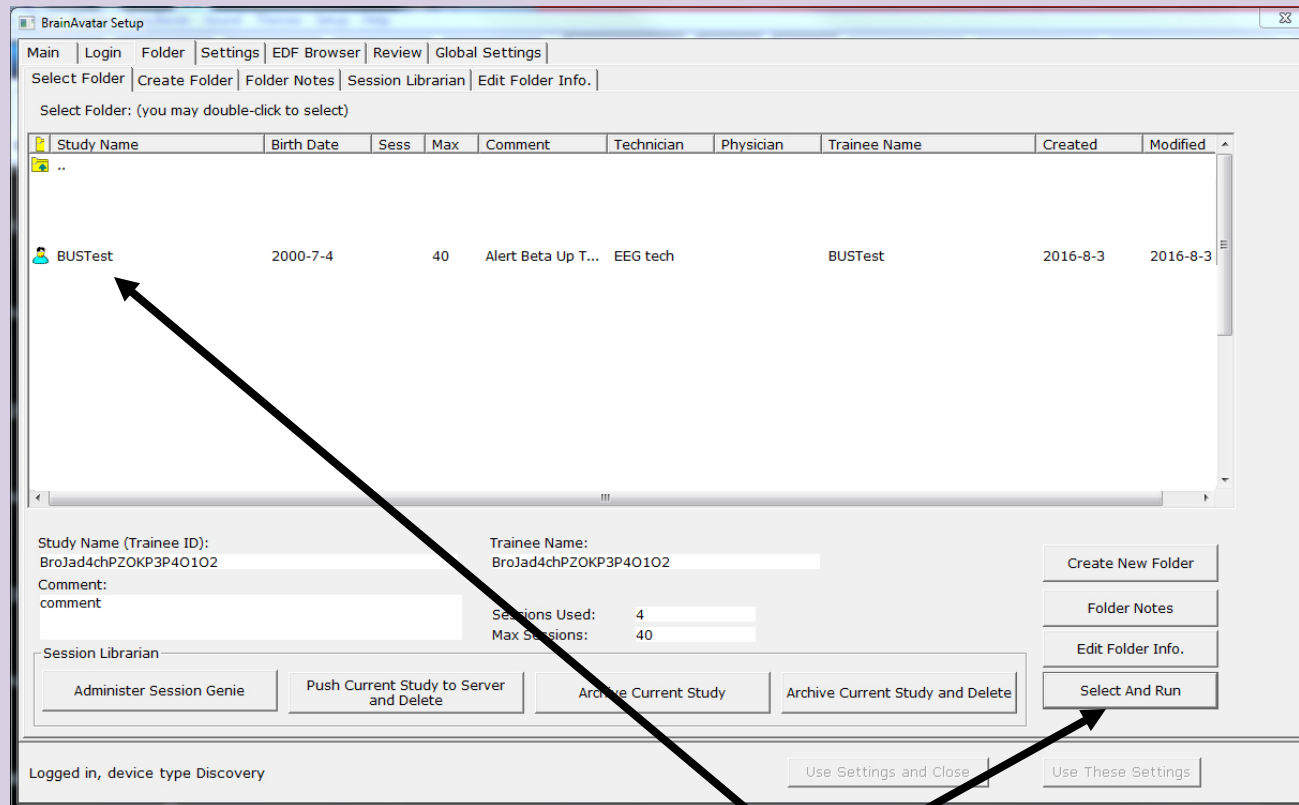
Create New Folder | Folder Notes | Edit Folder Info. | Select And Run

Logged in, device type Discovery

Use Settings and Close | Use These Settings

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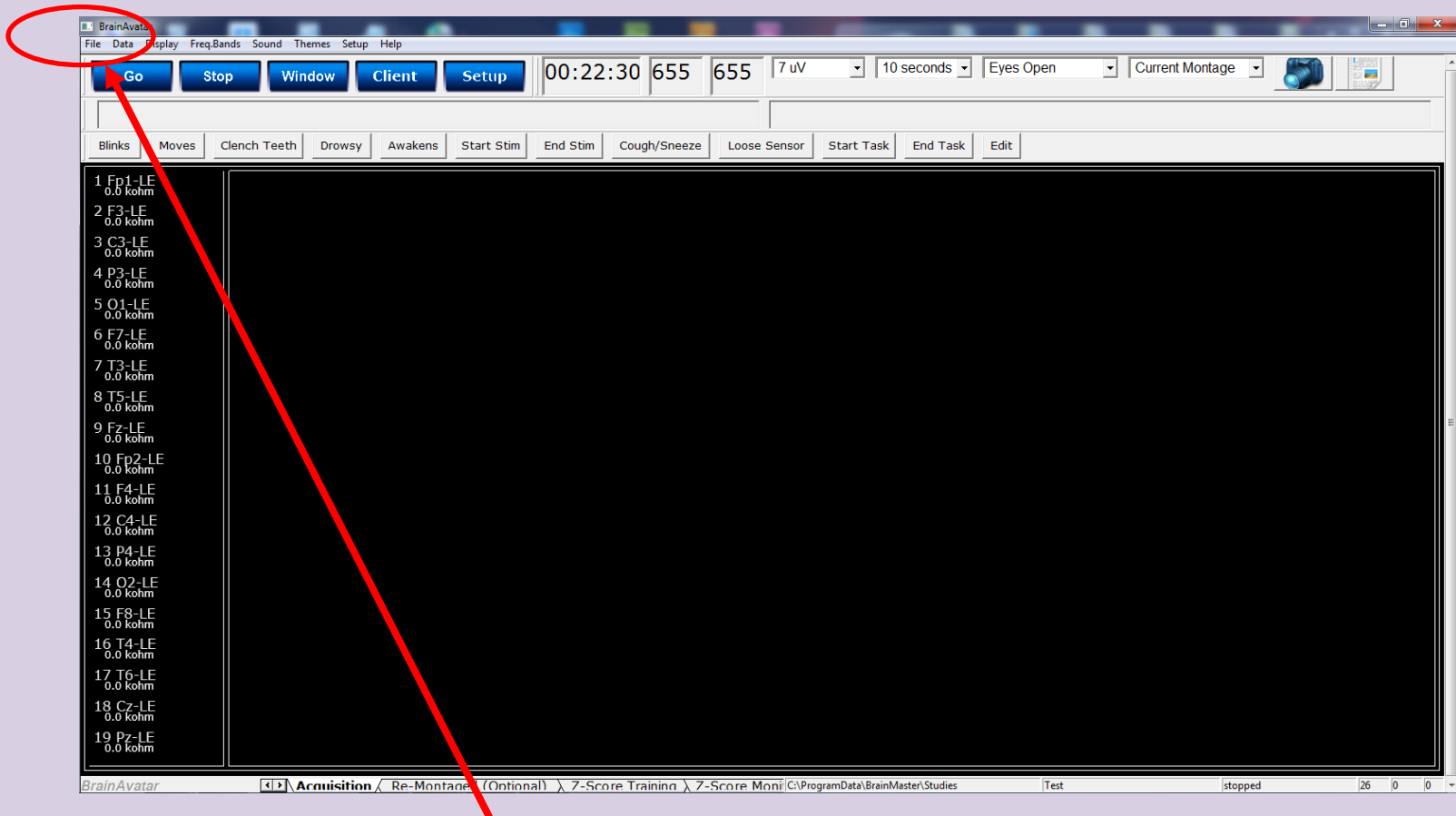
- The Select Folder Screen will appear.



- Click the Study (Folder) you would like to open (in this case BUSTest) and then click “Select and Run”.

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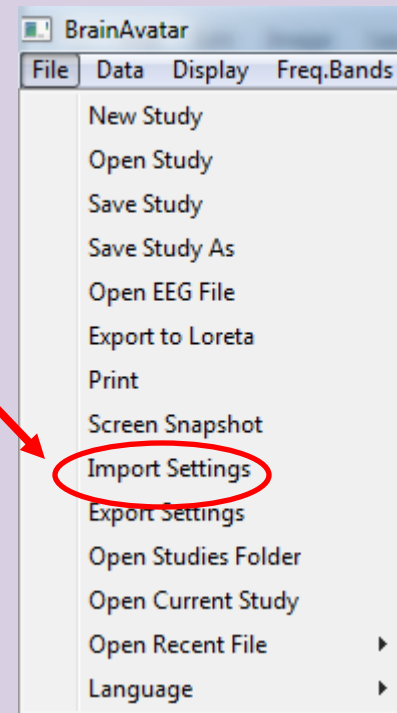
- The BrainAvatar acquisition Screen is illuminated. Let's load the Level 3 PZOK Setting File with Brain Maps.




- Click “File” from the Main Menu at the top.

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- Next select “Import Settings”.



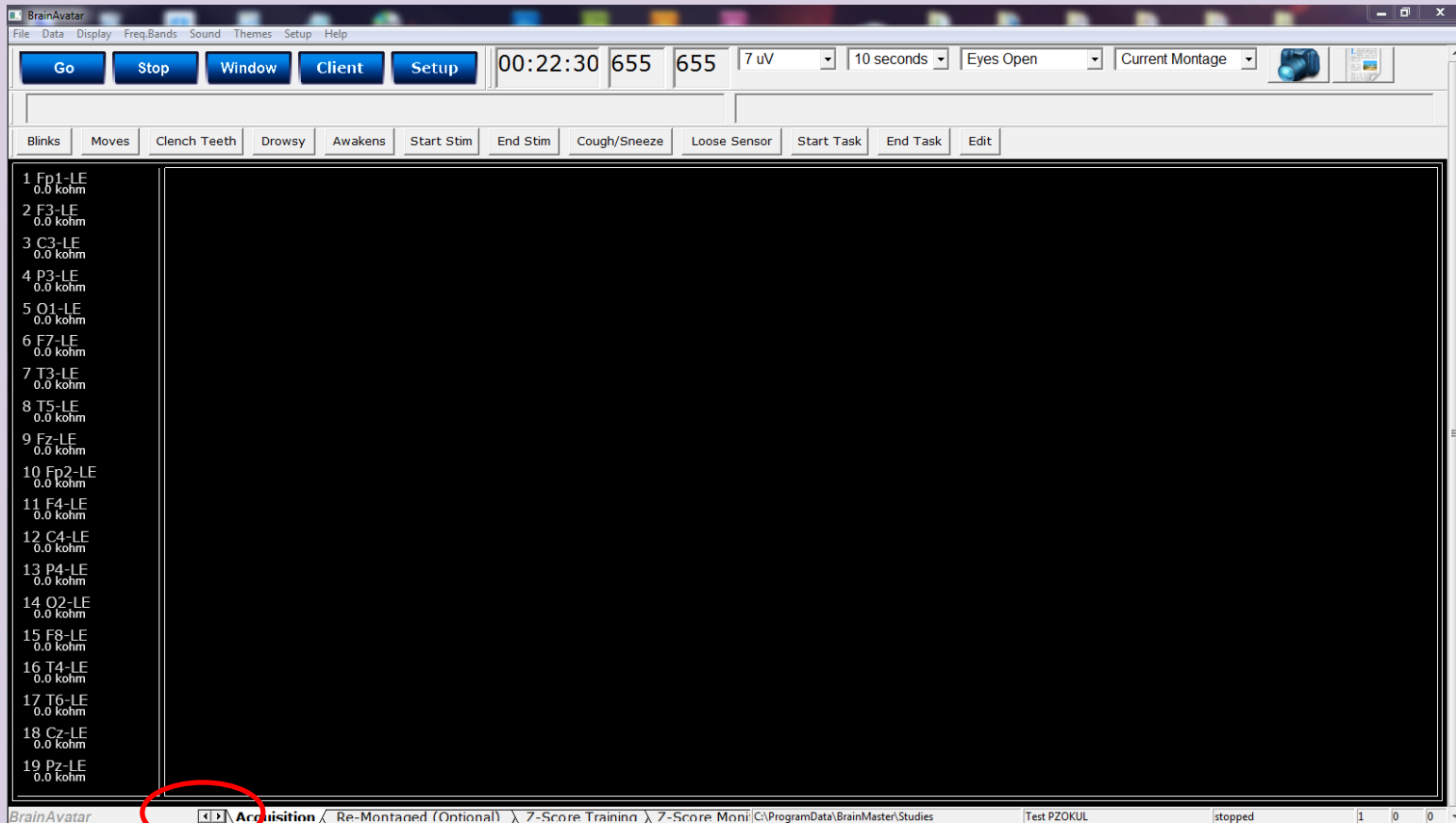
- Scroll to find the PZOKUL with Maps Level 3 File and double click it.

Name	Date modified	Type	Size
 3103012_19chPZOKBDX_BrainMaps.bdb2	9/13/2016 4:29 PM	BDB2 File	215 KB

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The Protocol is now ready for Modification

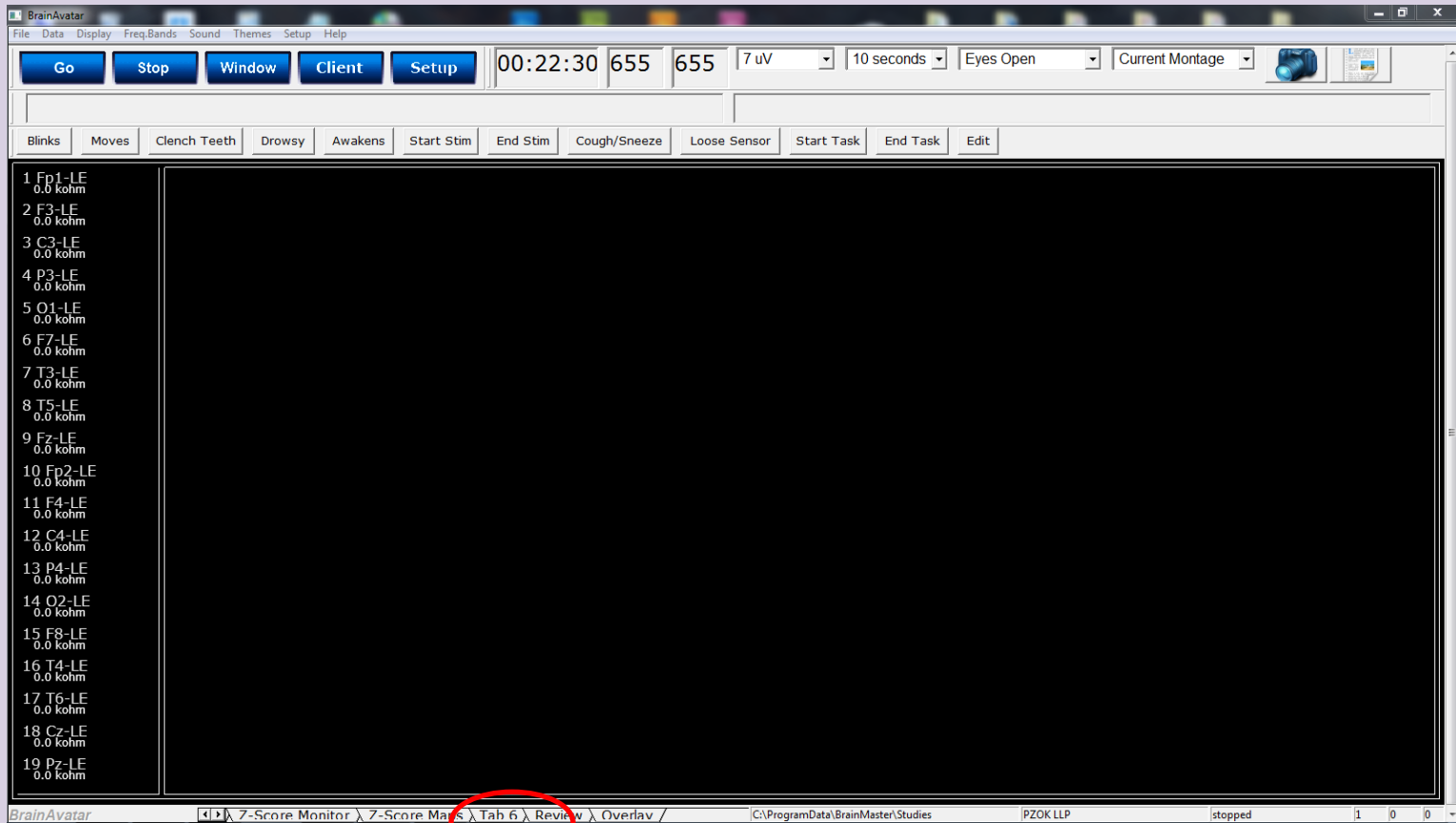


- Click the “Tab advance key” several times until Tab 6 is exposed.

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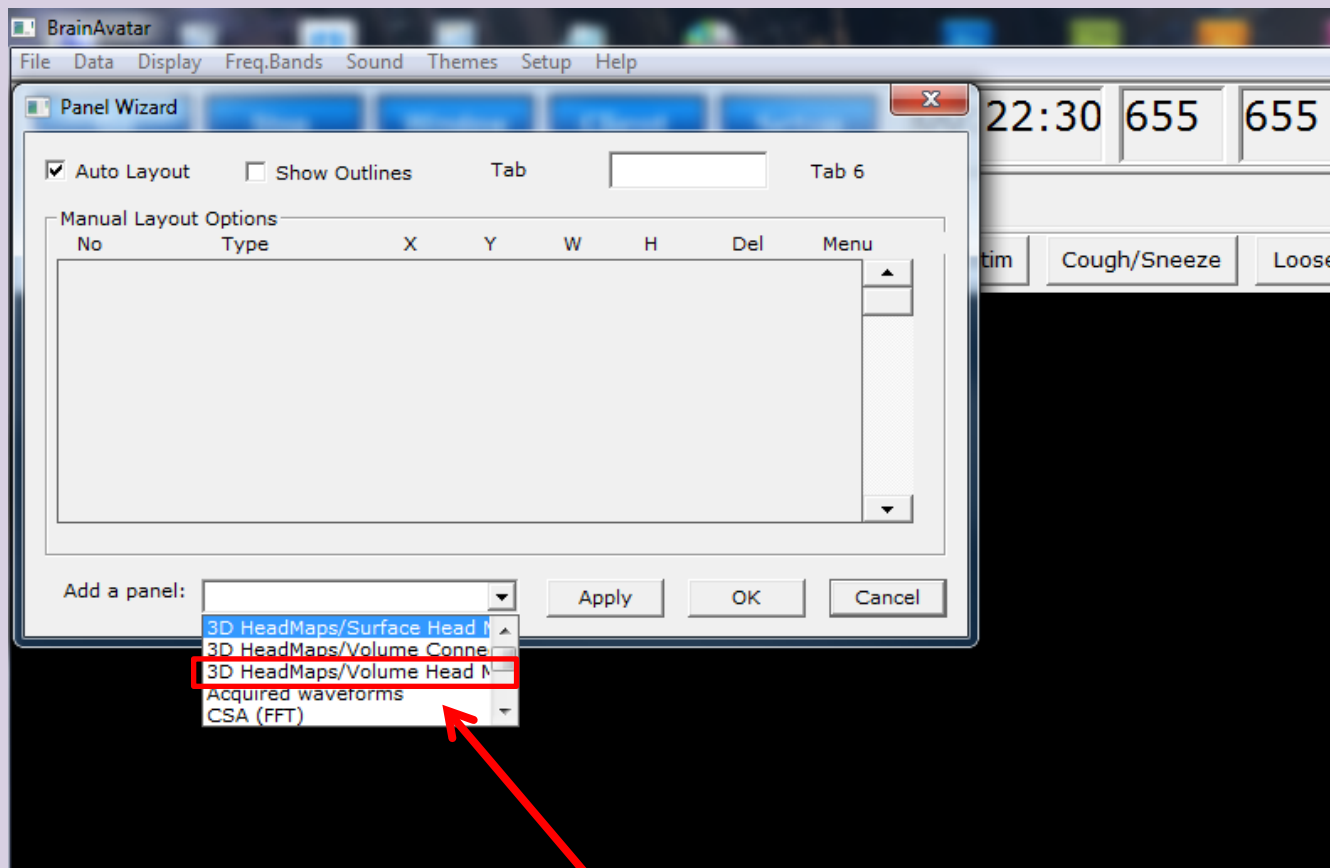


- Click on the Tab 6 key to open the blank screen. Right-Click on the Tab 6 tab to open the Panel Wizard.

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The Protocol is now ready for Modification

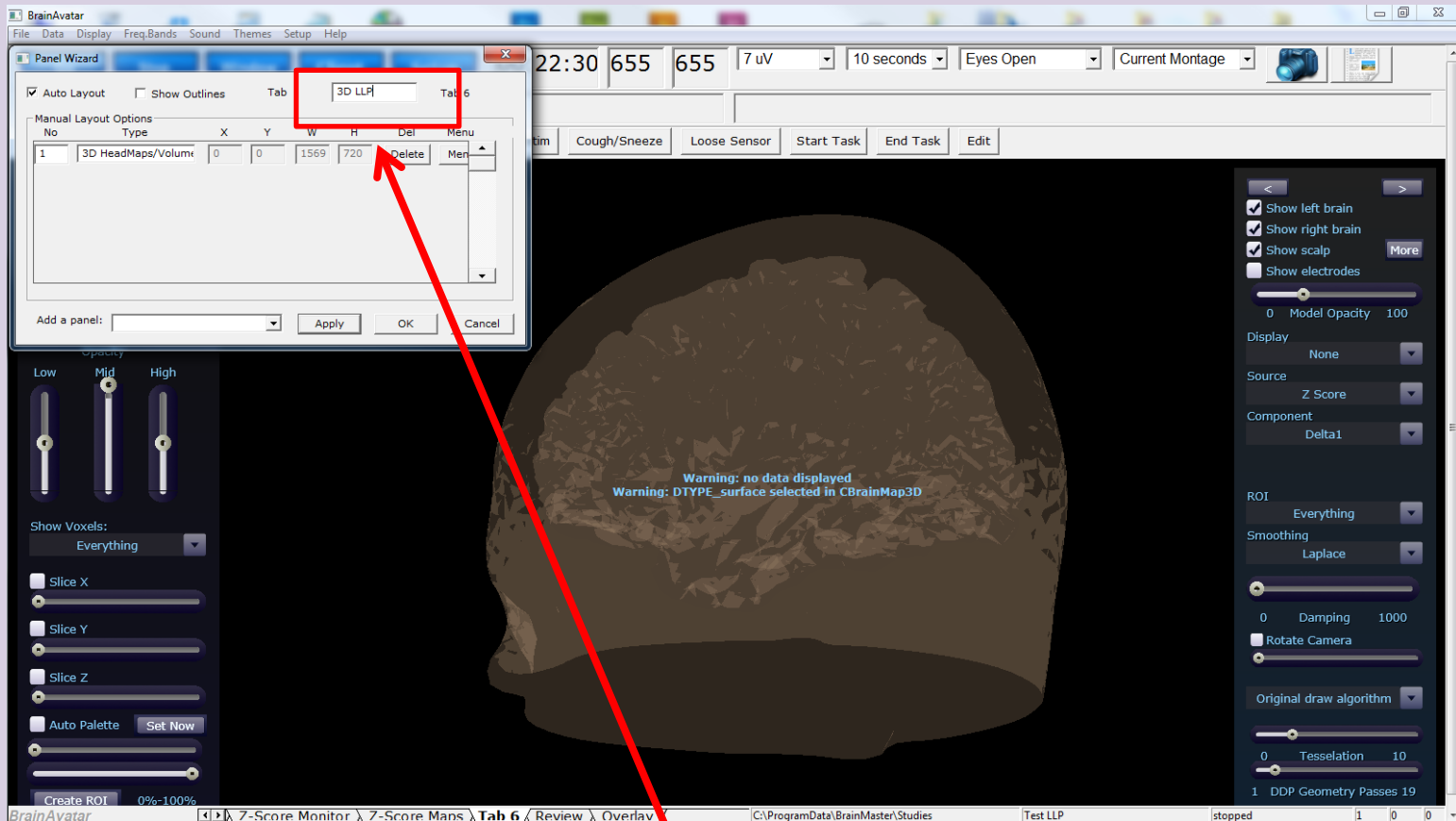


- To the right of the “Add a panel” dropdown, Find and Click “3D HeadMaps/Volume Head Map”.

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The Protocol is now ready for Modification

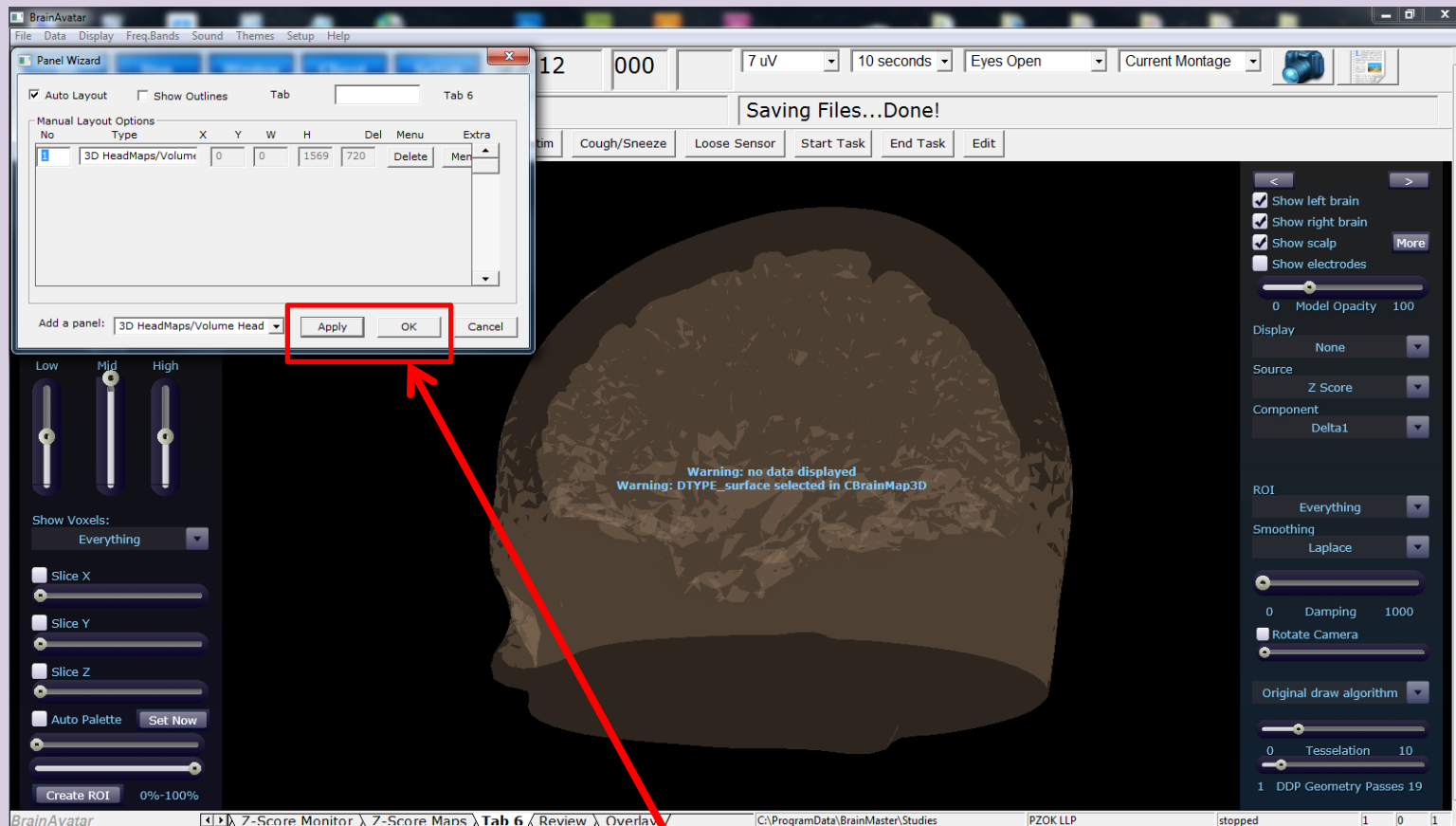


- Next, in the Tab Window, enter “3D LLP”. This will change the Tab 6 annotation to read 3D LLP

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The Protocol is now ready for Modification

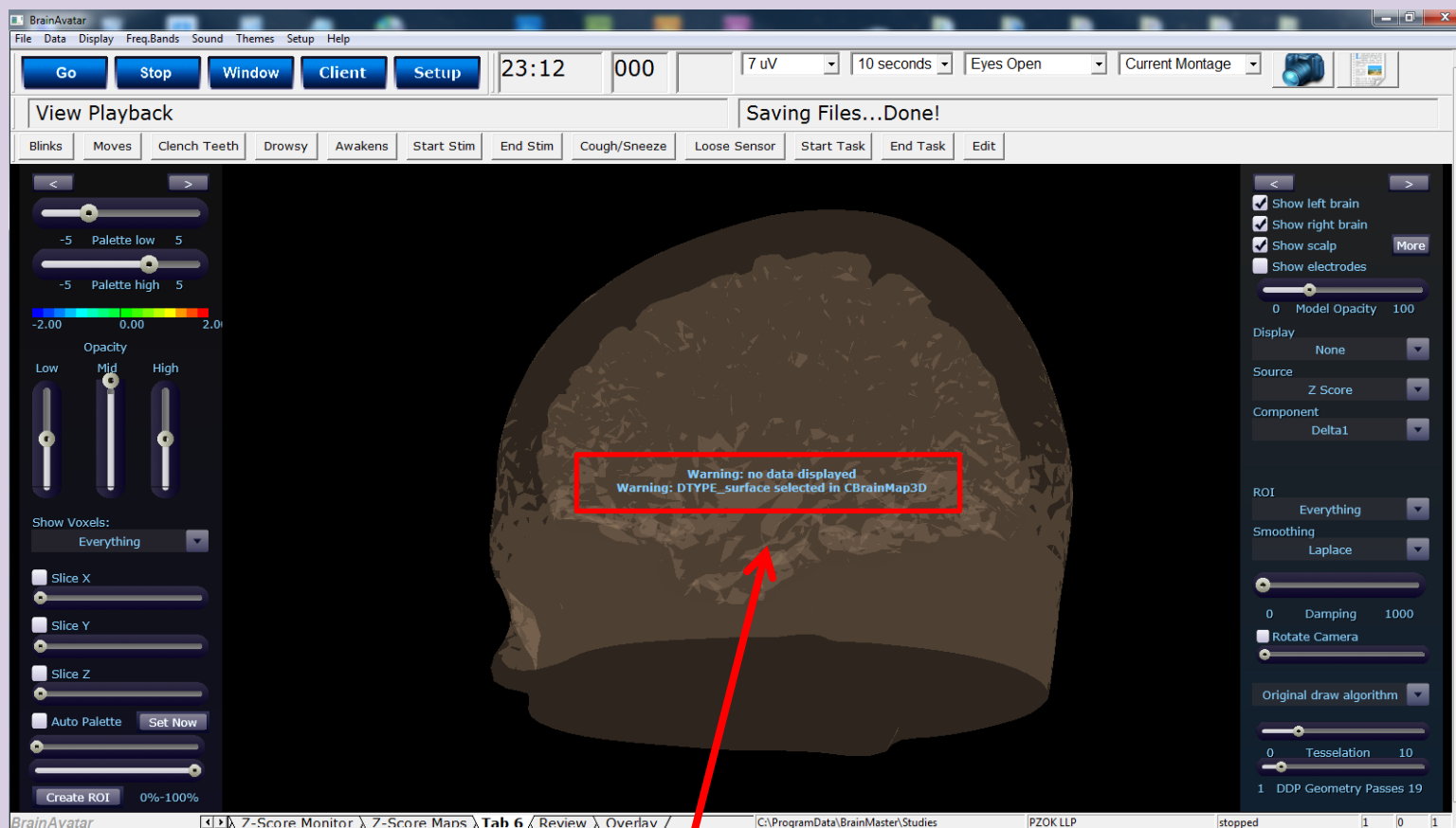


- Click “Apply and OK” in order to activate the LLP.

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The Protocol is now ready for Modification

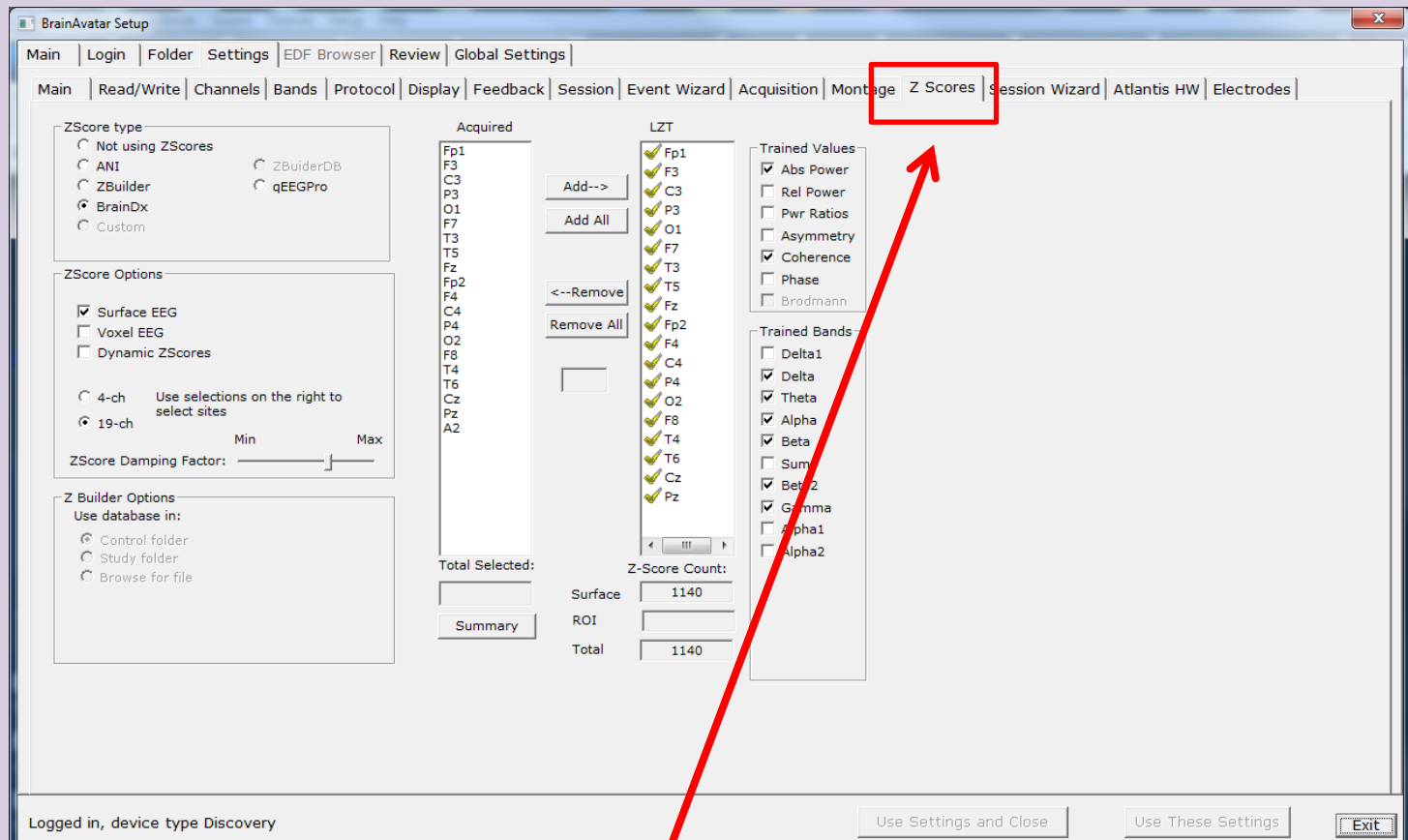


- Notice the warning in the middle of the LLP. This alerts you that the LLP needs some additional information in order to work properly.

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The Protocol is now ready for Modification

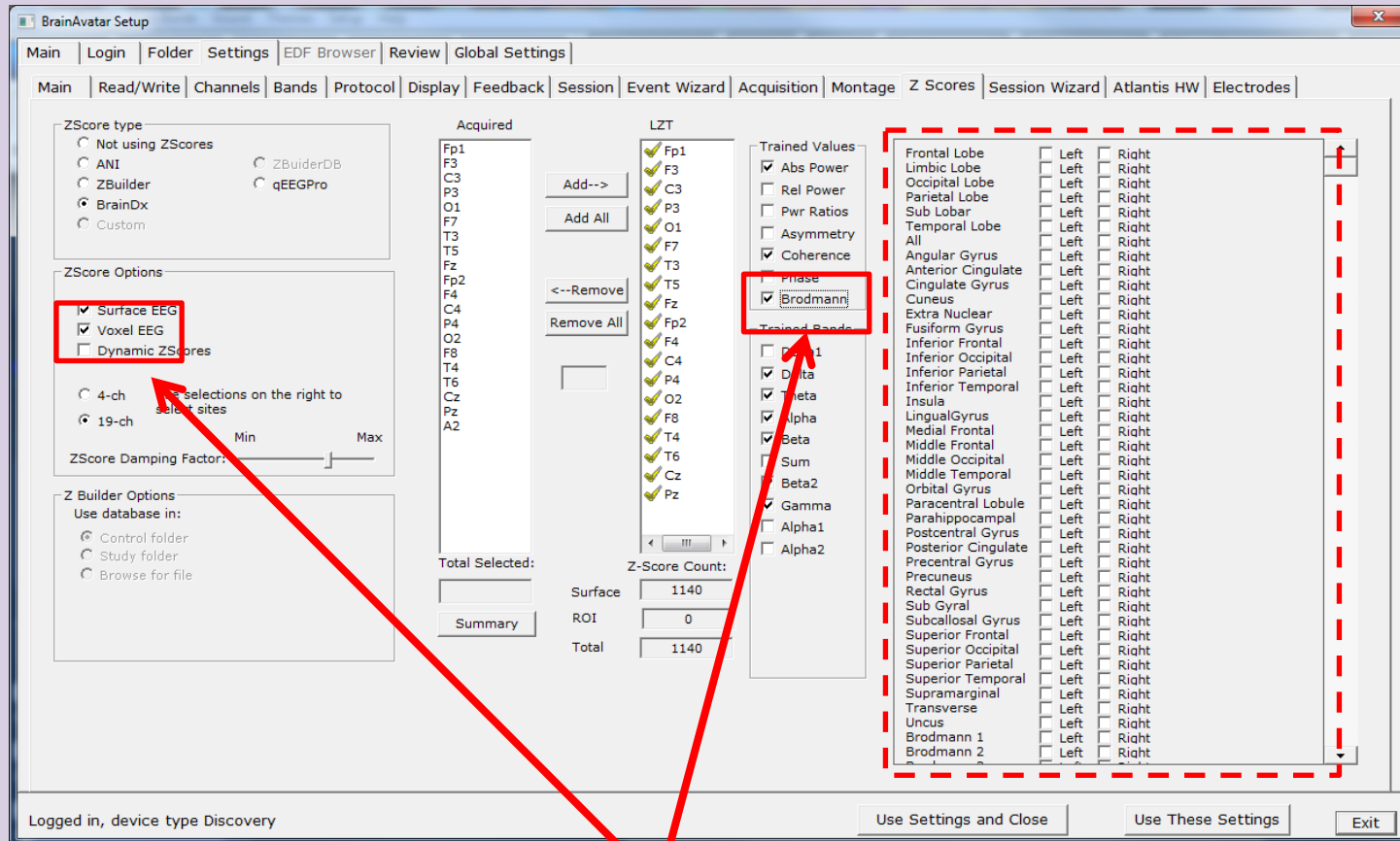


- The LLP requires LORETA information from the Z-Score Settings Page in order to read the data required to project Z-Scores on the map. Click ctrl-e and go to the “Z-Scores” Settings.

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The Protocol is now ready for Modification

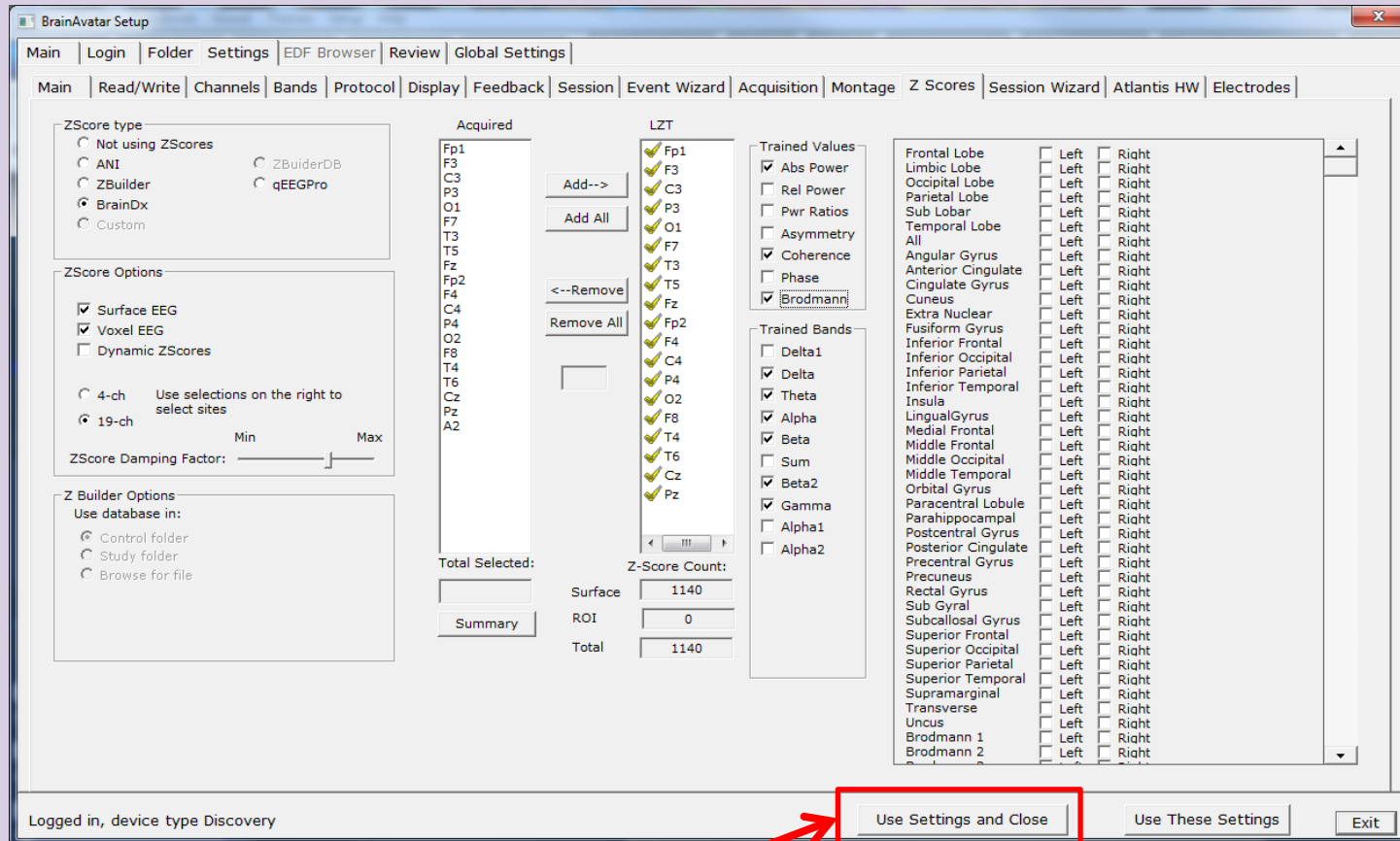


- Check the box in front of “Voxel EEG” in order to activate LORETA ZScores. Also click the check box next to “Brodmann” to activate all Brodmann area choices to the right of the checkbox.

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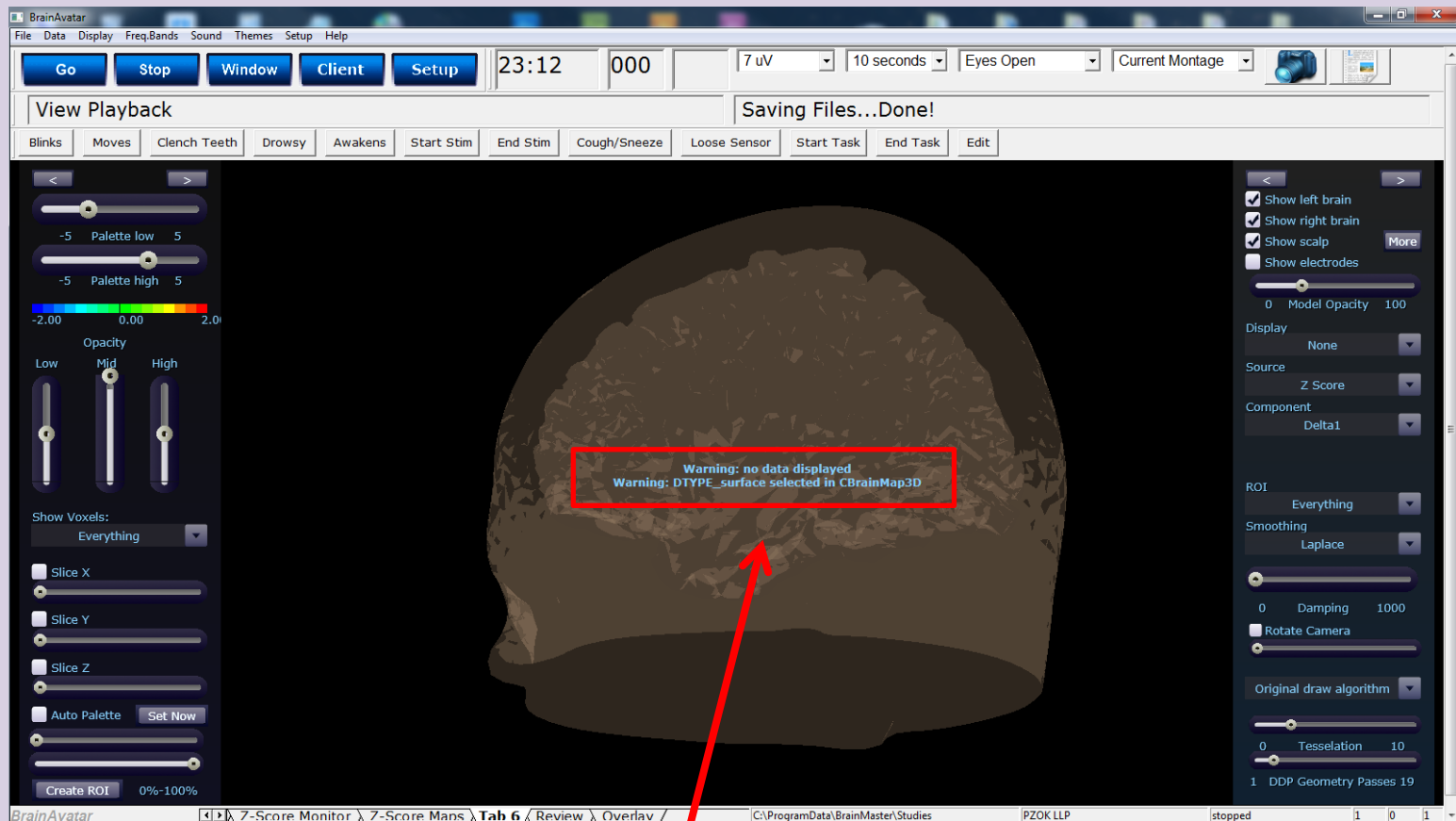


- Click “Use Settings and Close” to save and activate the LLP

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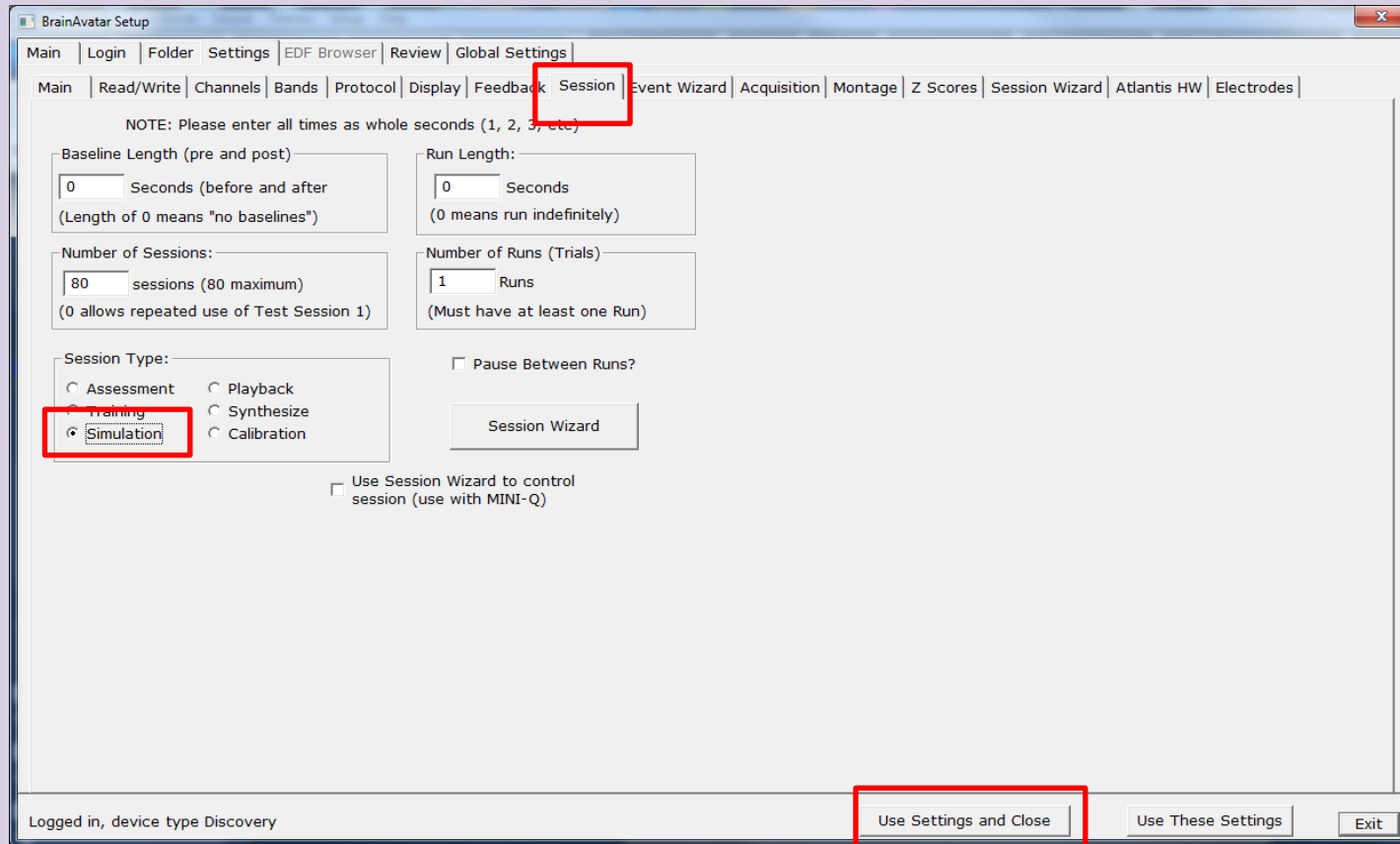


- Let's run some simulated data through the protocol to Learn how the LLP works. Click "ctrl-e" to open the settings window.

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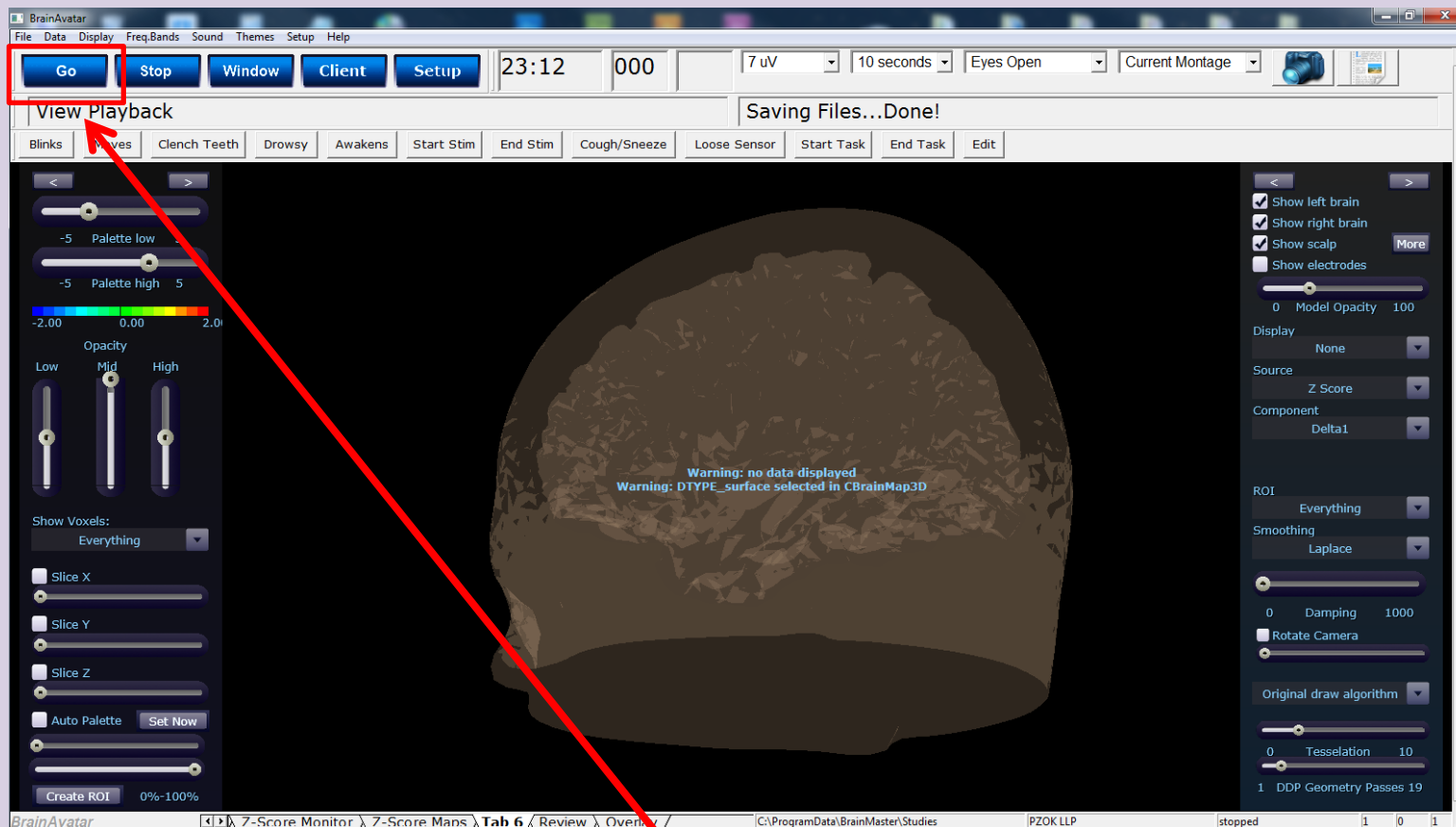


- Click “Session”, Click the “Simulation” checkbox. Then, click “Use Settings and Close” to activate the Session

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The Protocol is now ready for Modification

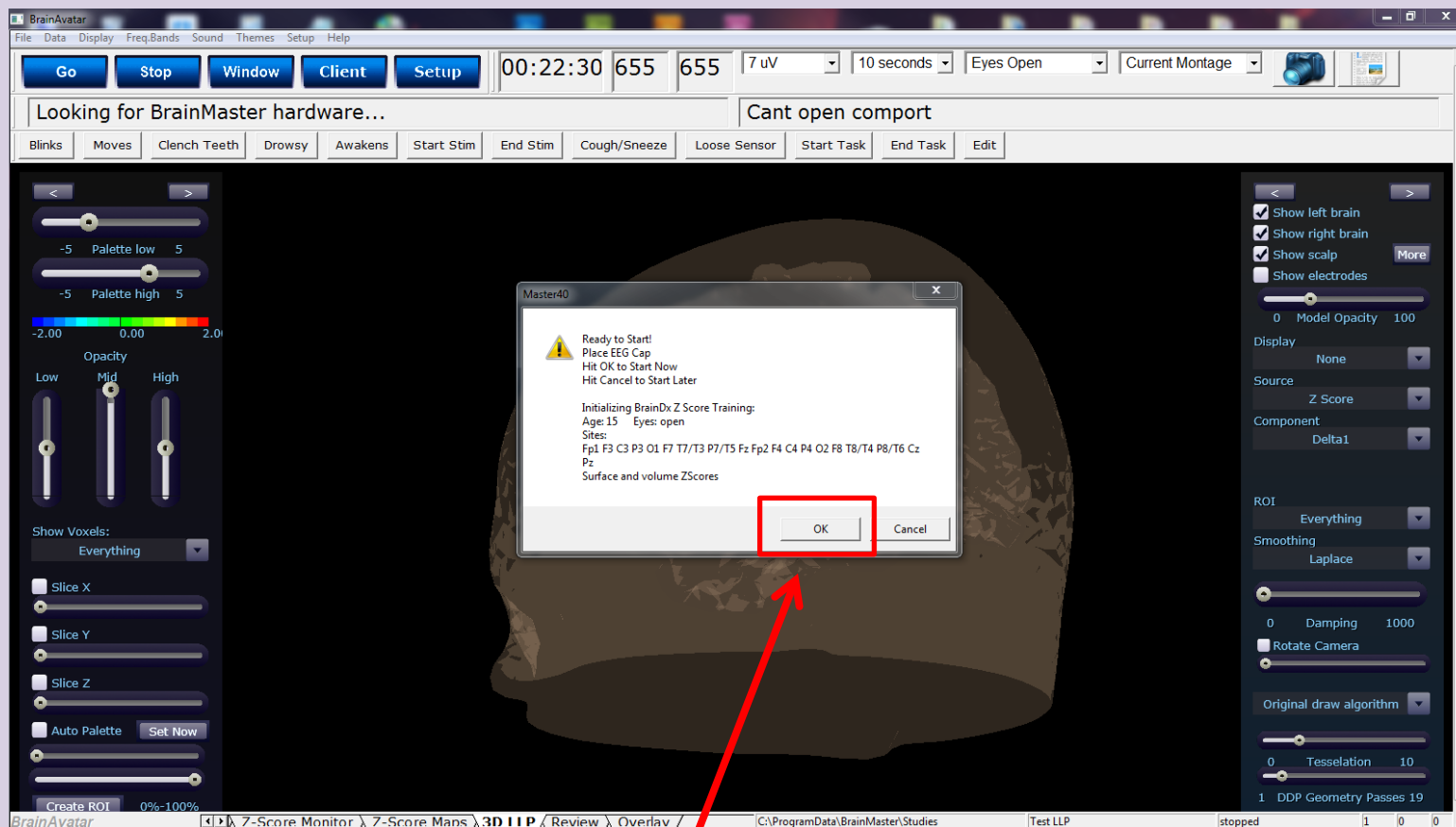


- Click “Go” to start simulation.

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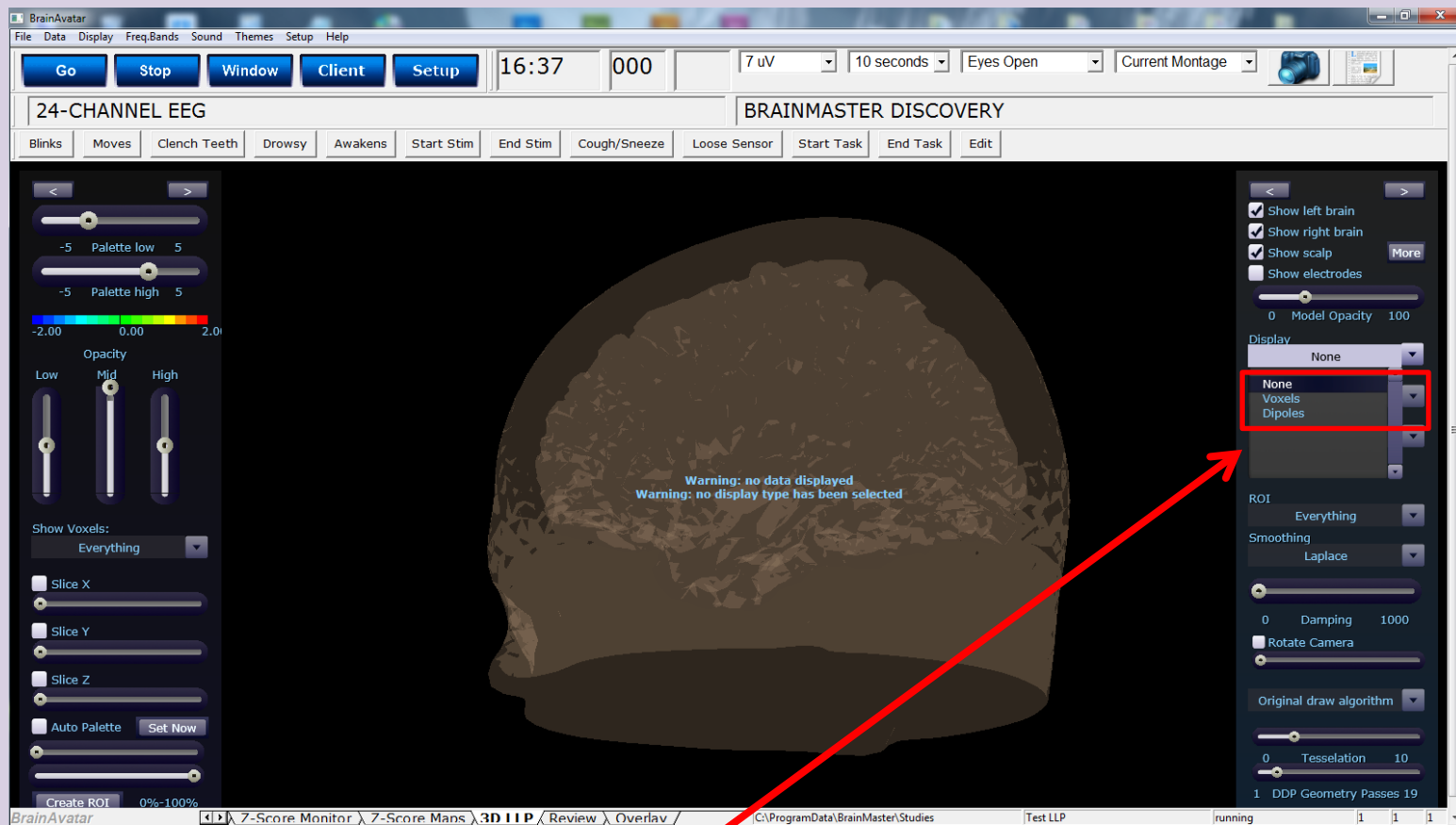


- Click “OK”.

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The Protocol is now ready for Modification

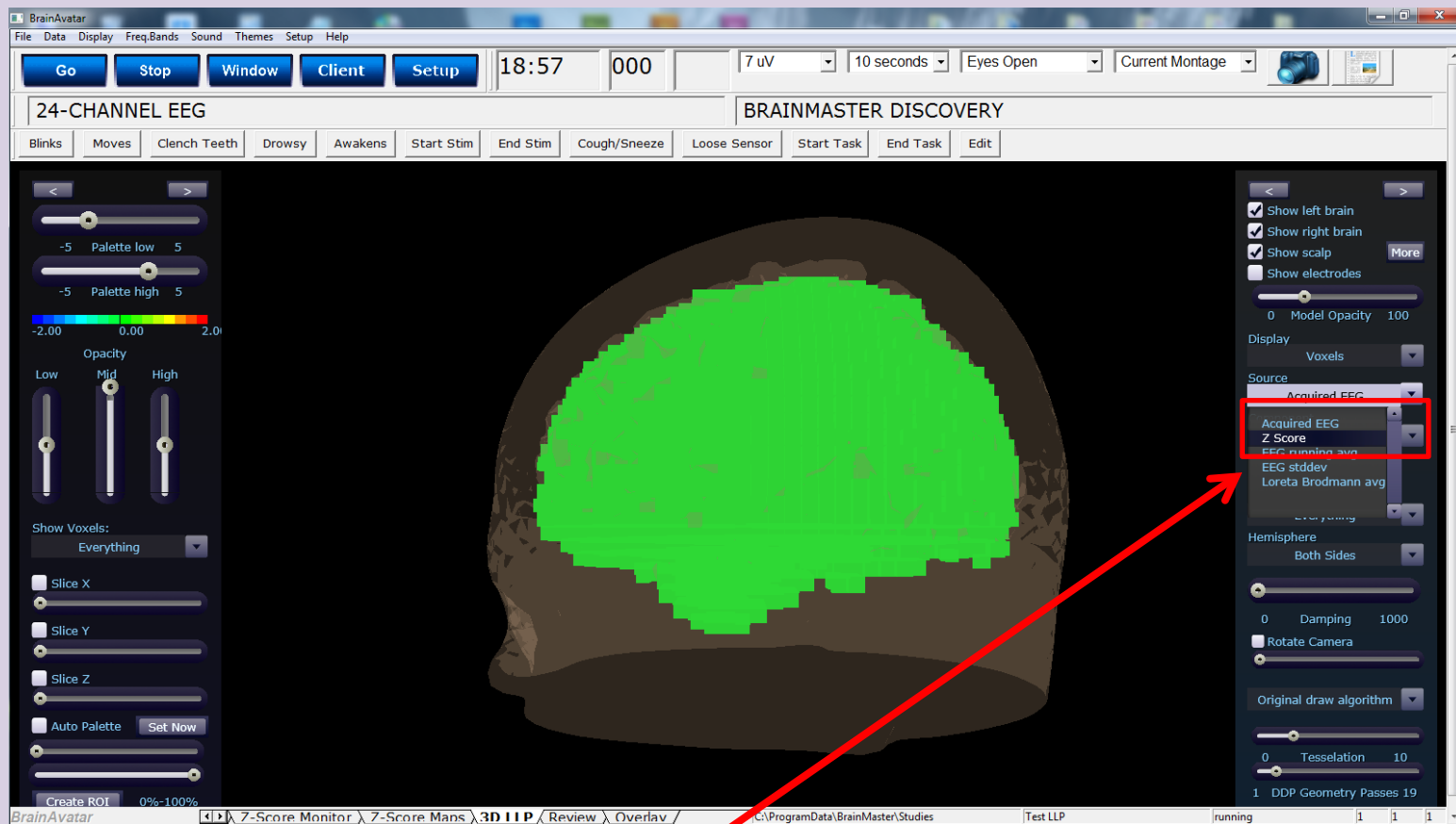


- In the display box, click “Voxels”.

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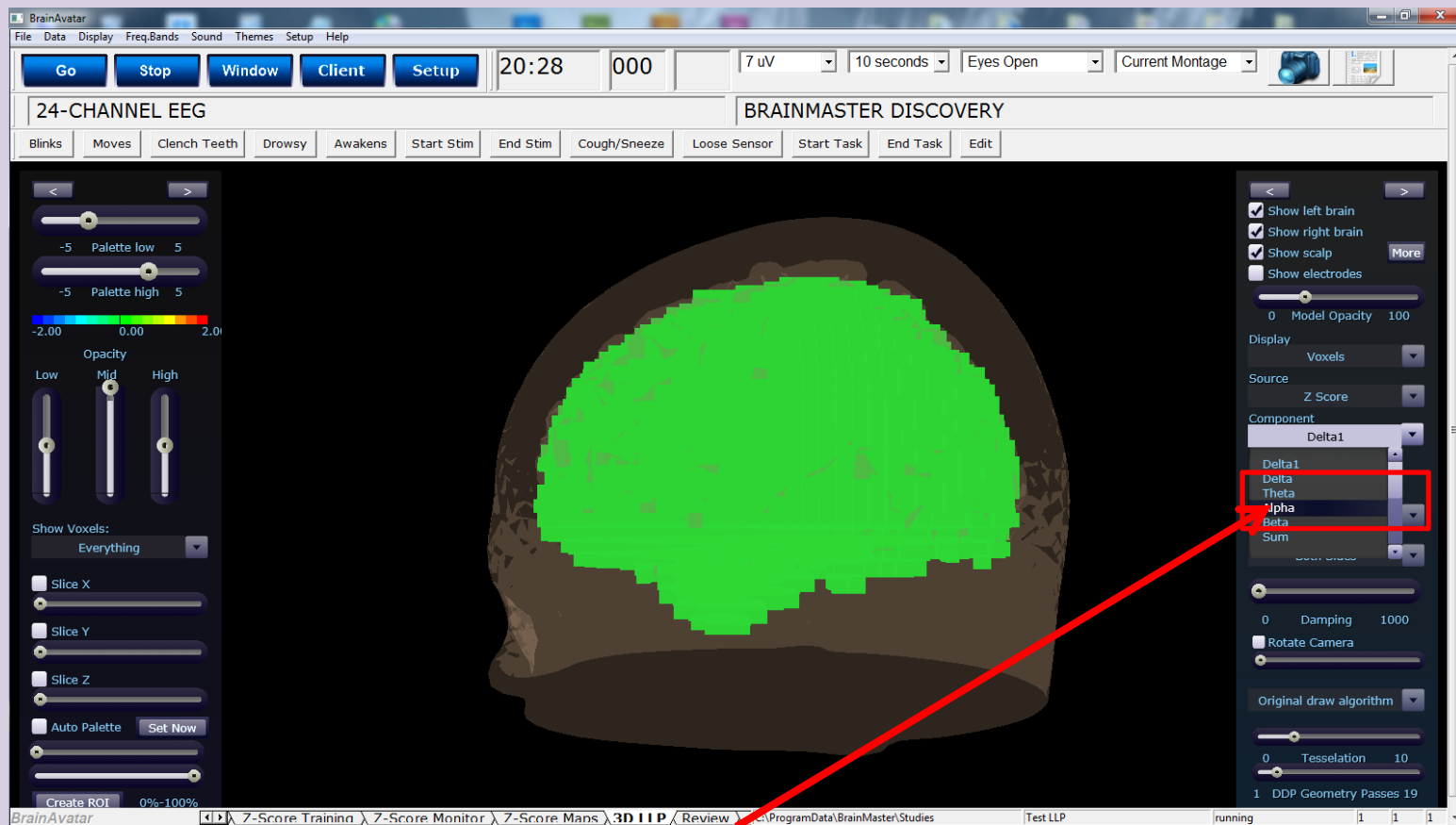


- In the source box, click “Z-Score”.

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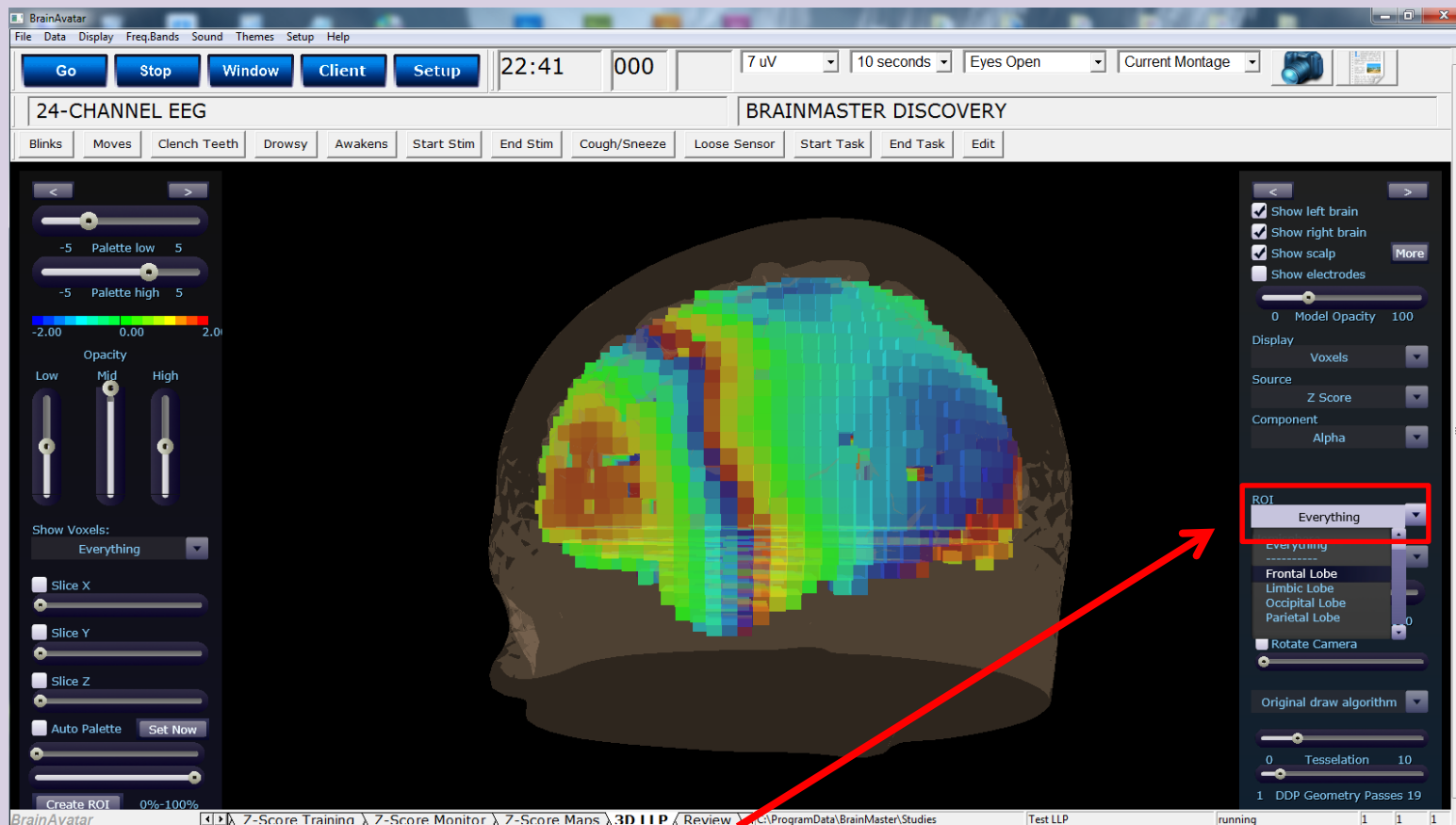


- In the component box, click a frequency band you would like to view. In this case lets choose “Alpha”.

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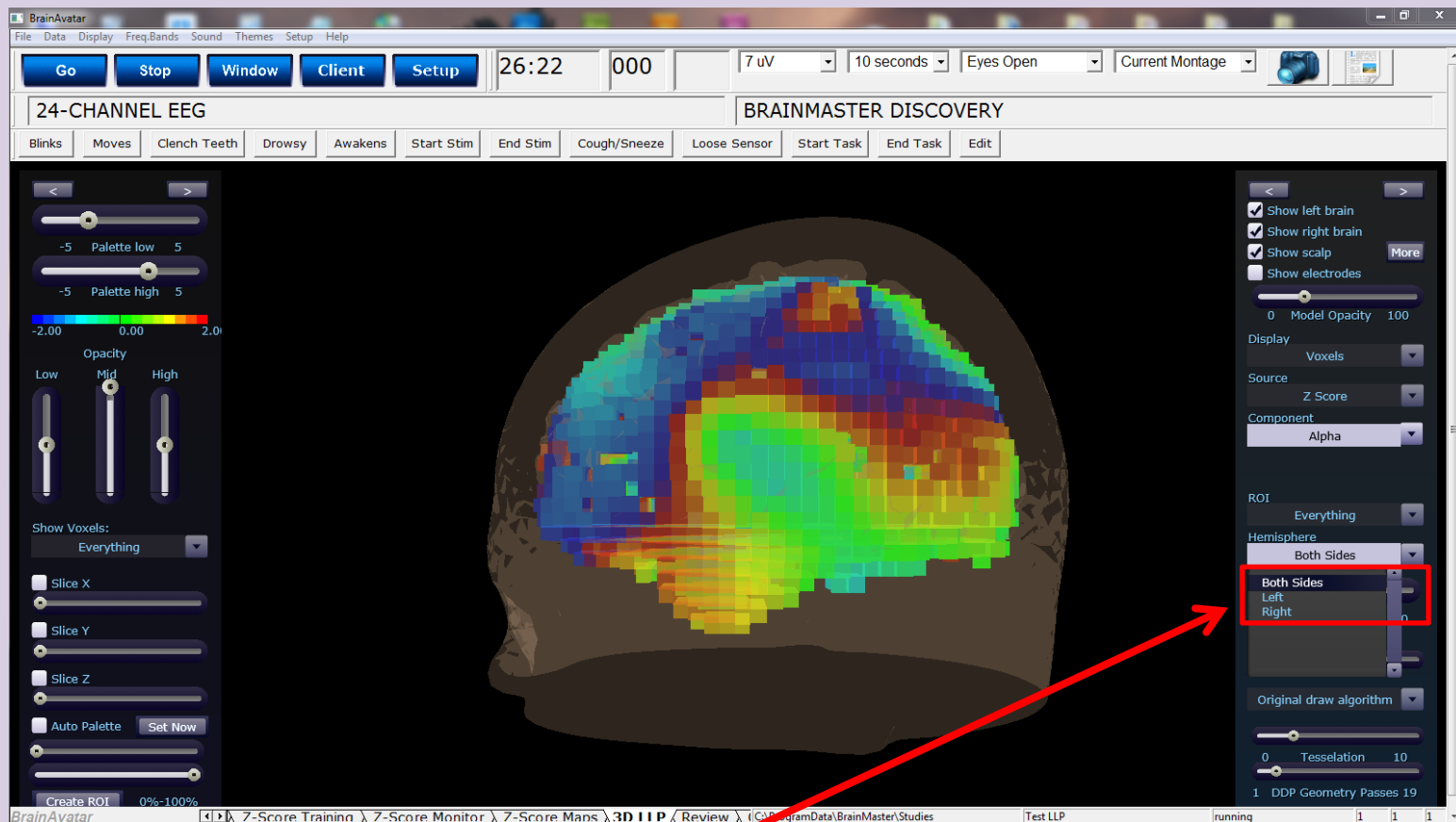


- Notice how the LLP lights up now. In the ROI box you may select a Region of Interest (ROI). For this example let's simply leave it on Everything.

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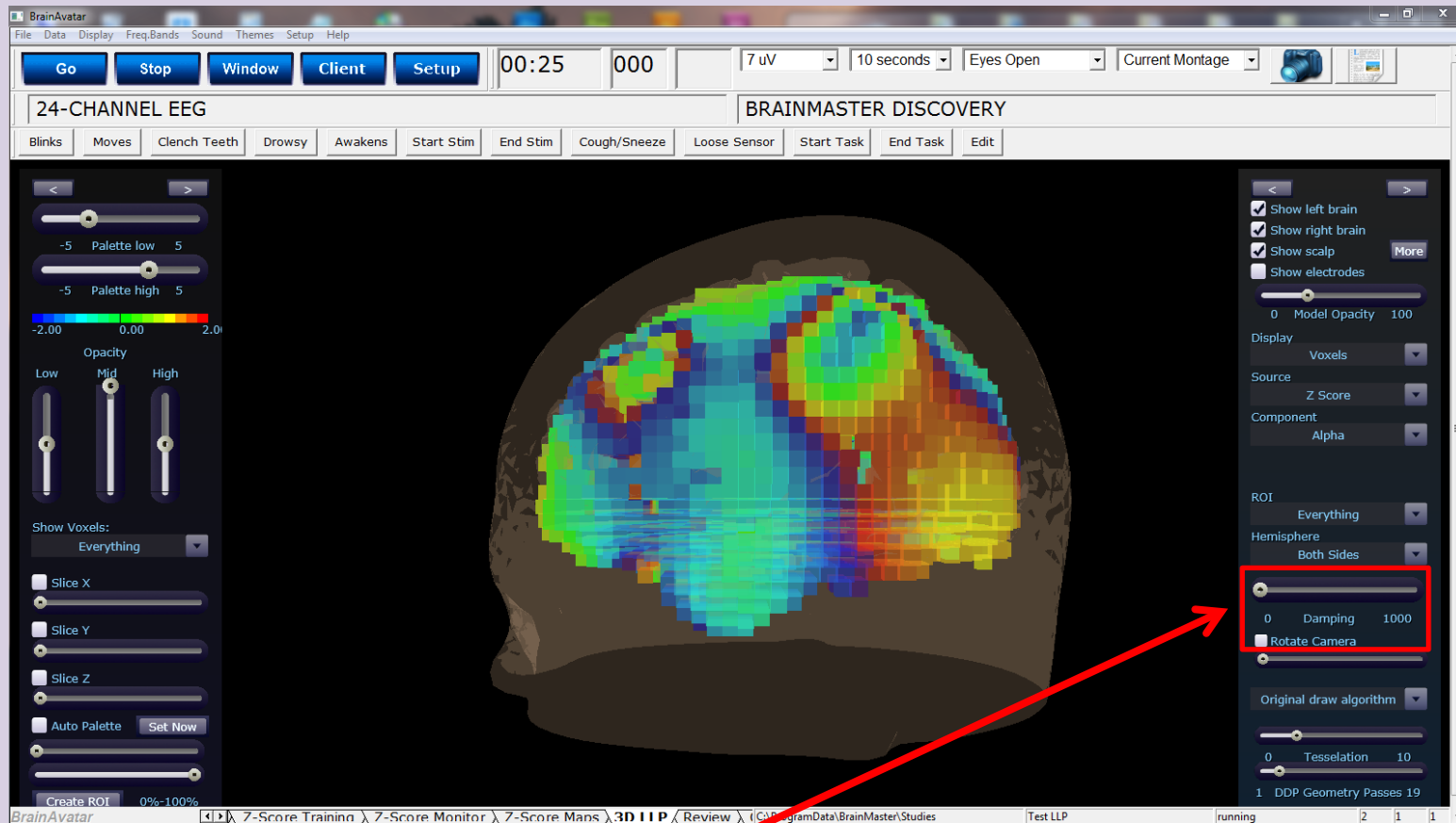


- You may choose to inspect the left, the right or both sides of the brain in the LLP.

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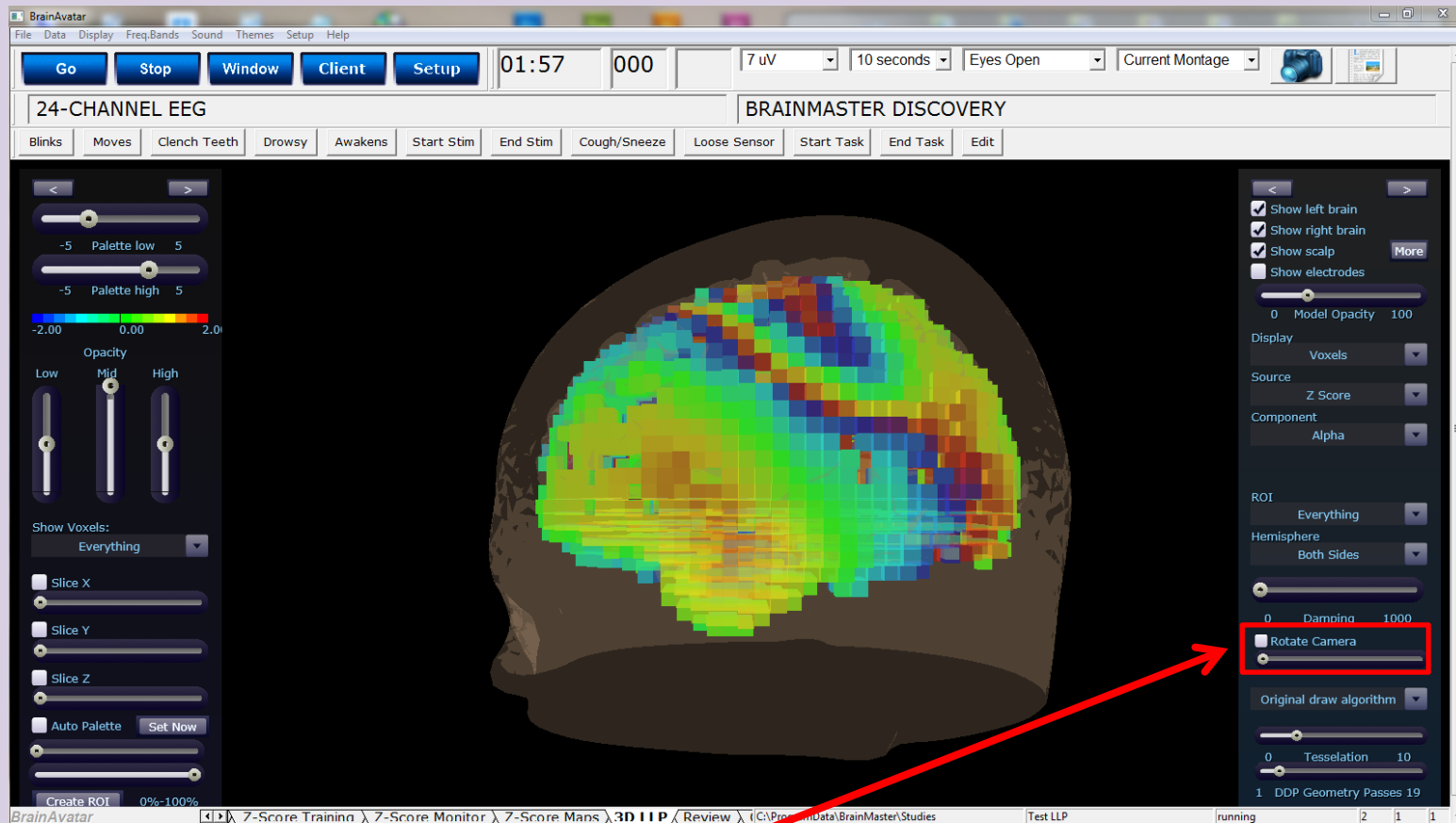


- Adjusting the Damping Slider will slow updating of the projector so that brain wave patterns may be more easily discernable.

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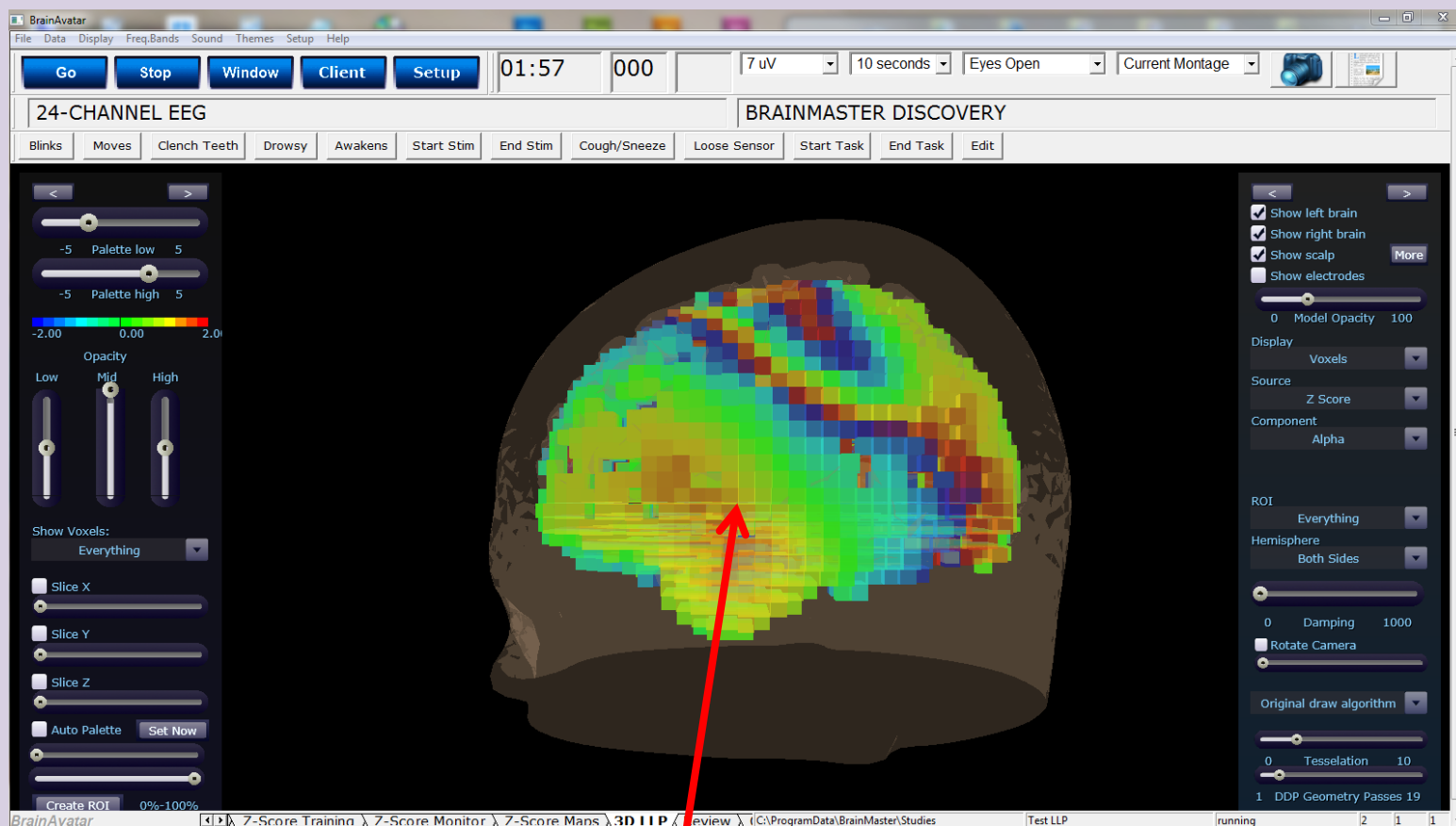


- By clicking the Rotate Camera check box the Brain Image will rotate automatically with the slider bar controlling the speed of rotation.

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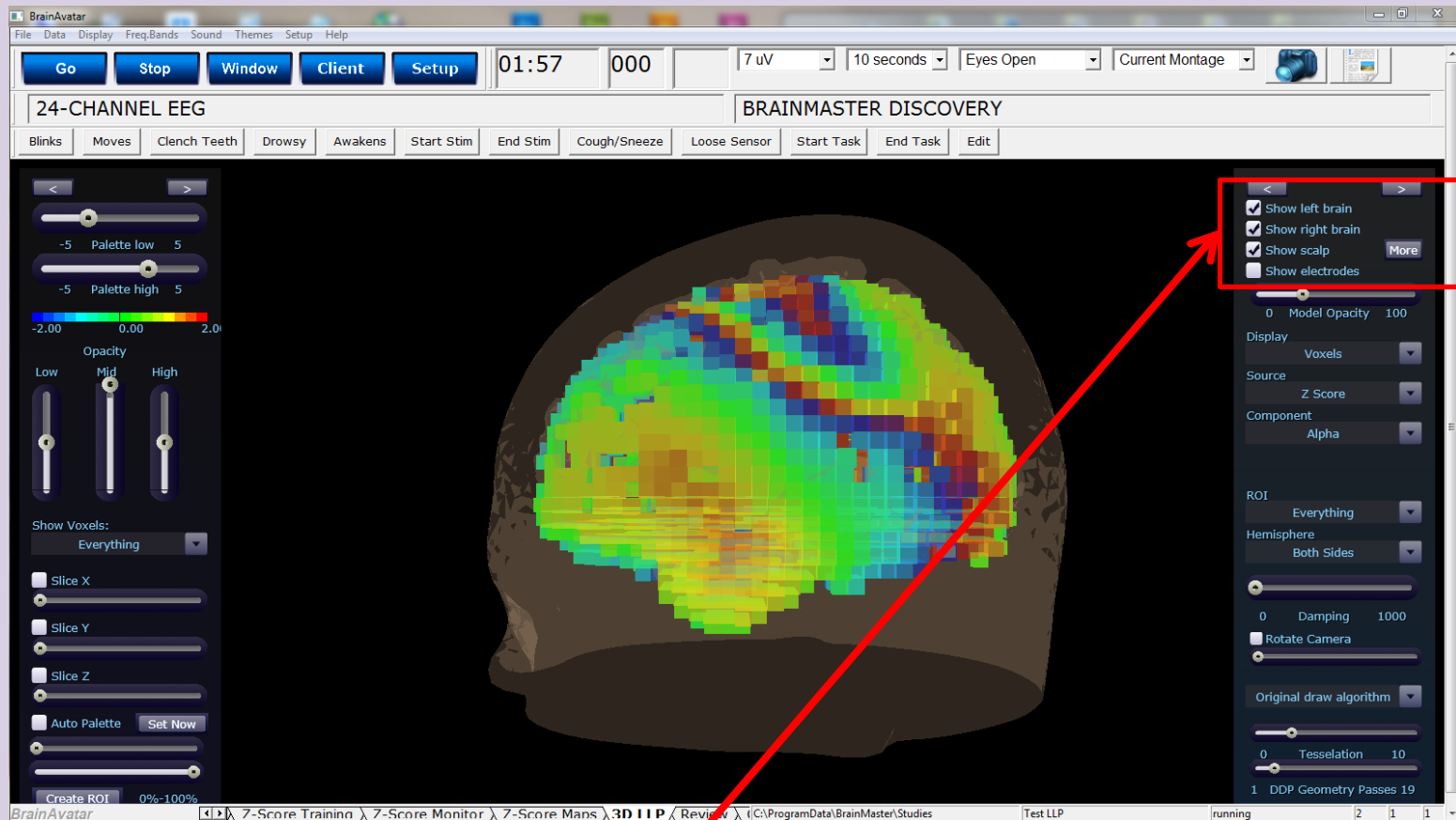


- The LLP may be rotated manually by simply placing the mouse cursor anywhere on the projector and while holding the left mouse button down rotating the image to a location of your choosing.

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The Protocol is now ready for Modification

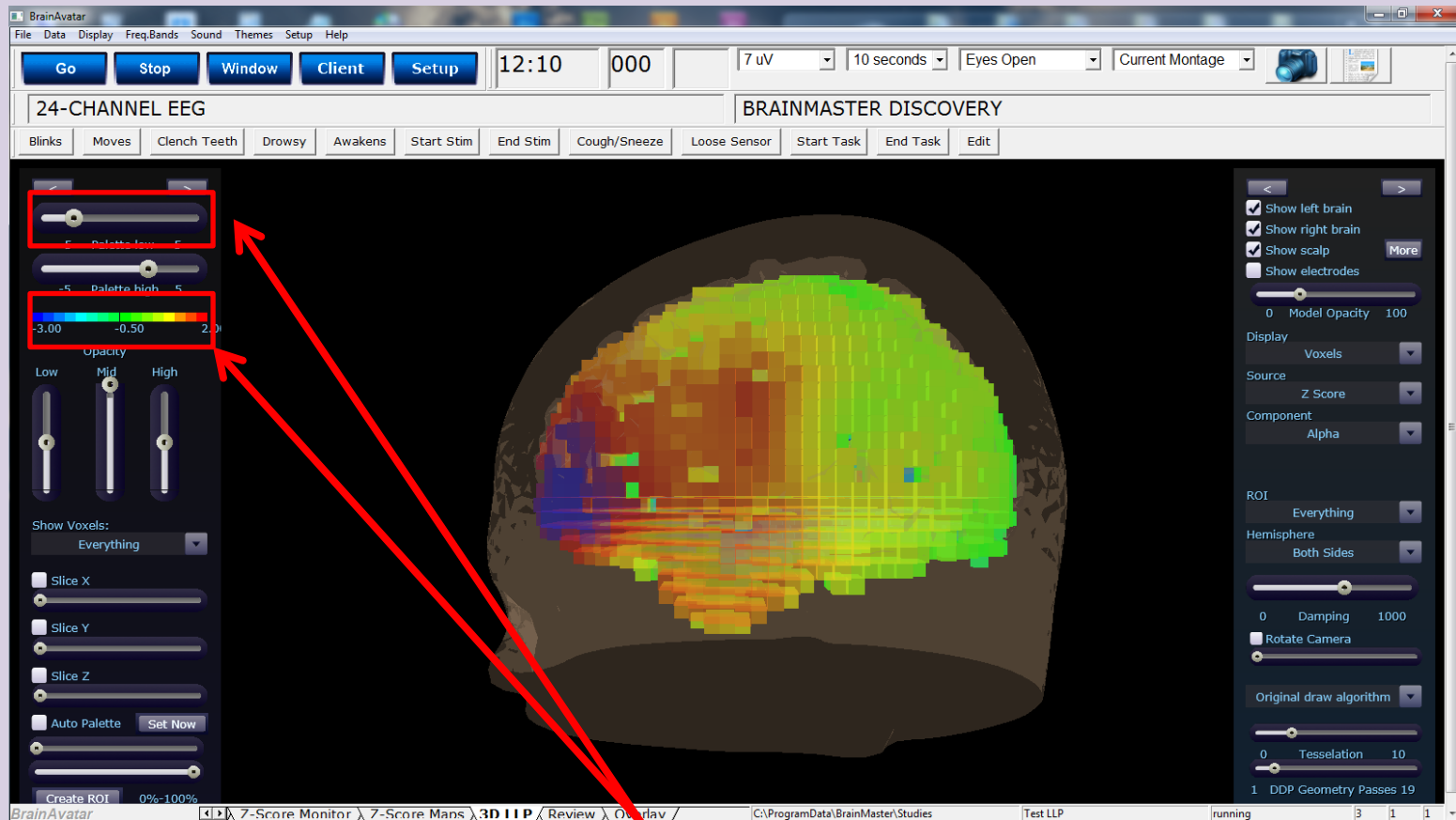


- You may show the left brain, right brain, the scalp and/or 10/20 electrode placements by simply selecting or deselecting the adjacent check boxes.

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The Protocol is now ready for Modification

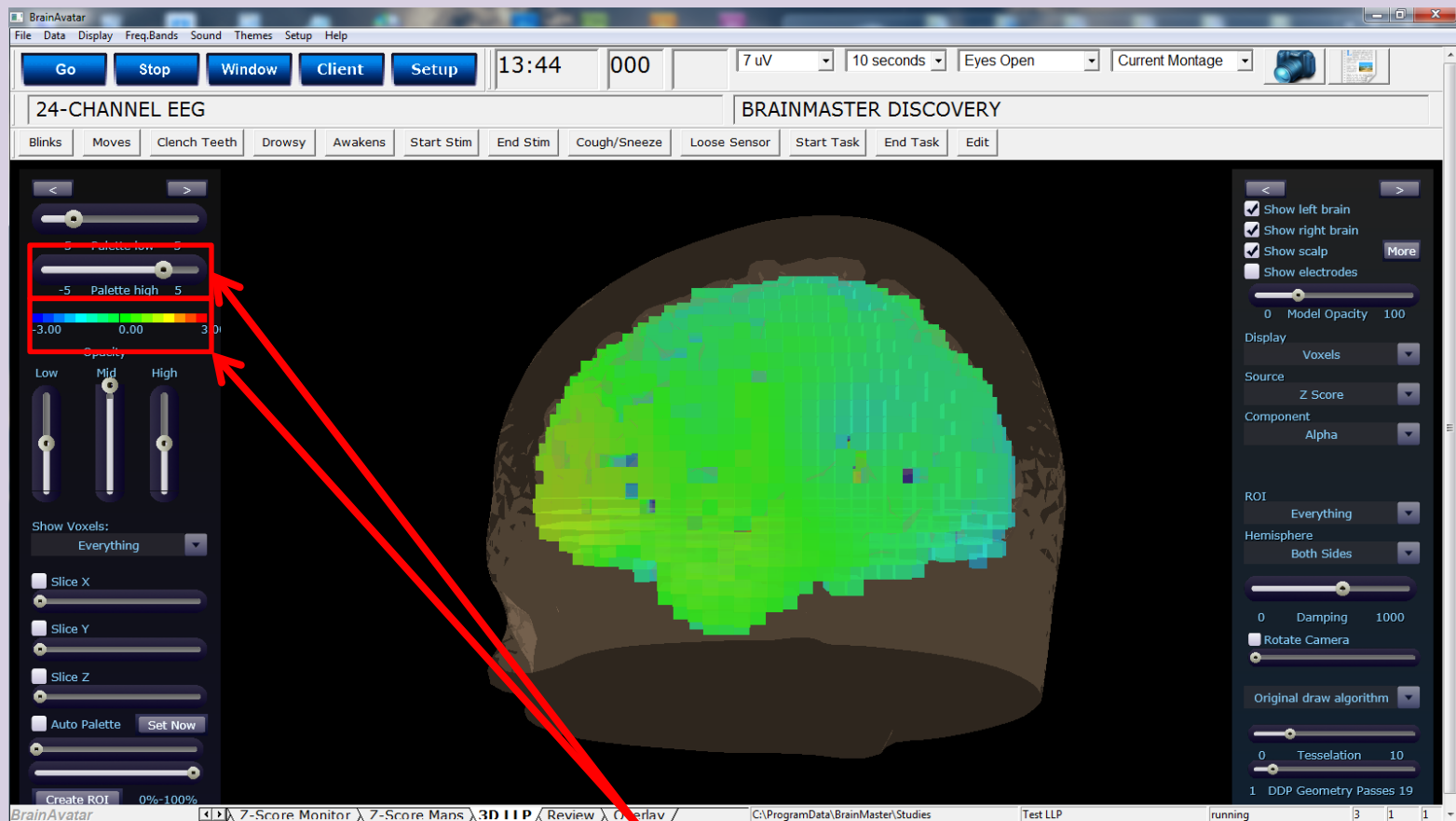


- We may now focus on the left side of the LLP. Starting at the top we have the manual control for “Palette low”. Let’s say when we review the clients QEEG, all Z-Scores range between ± 3 SD’s. Then a good setting for “Palette low” might be -3. Adjust the slider until you observe -3.00 on the color scale just below.

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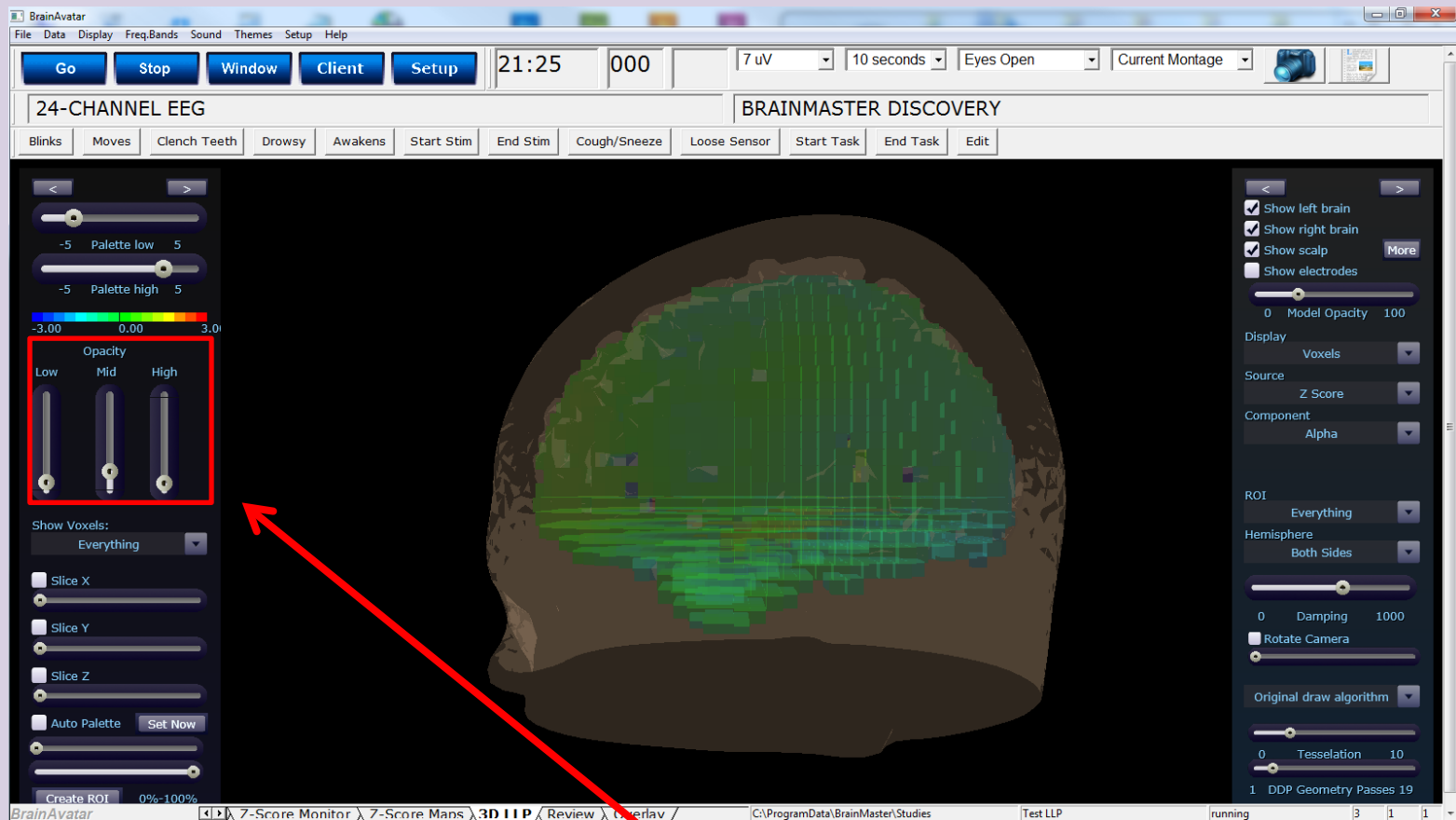


- In the same way we can adjust Palette high to 3 SD's.

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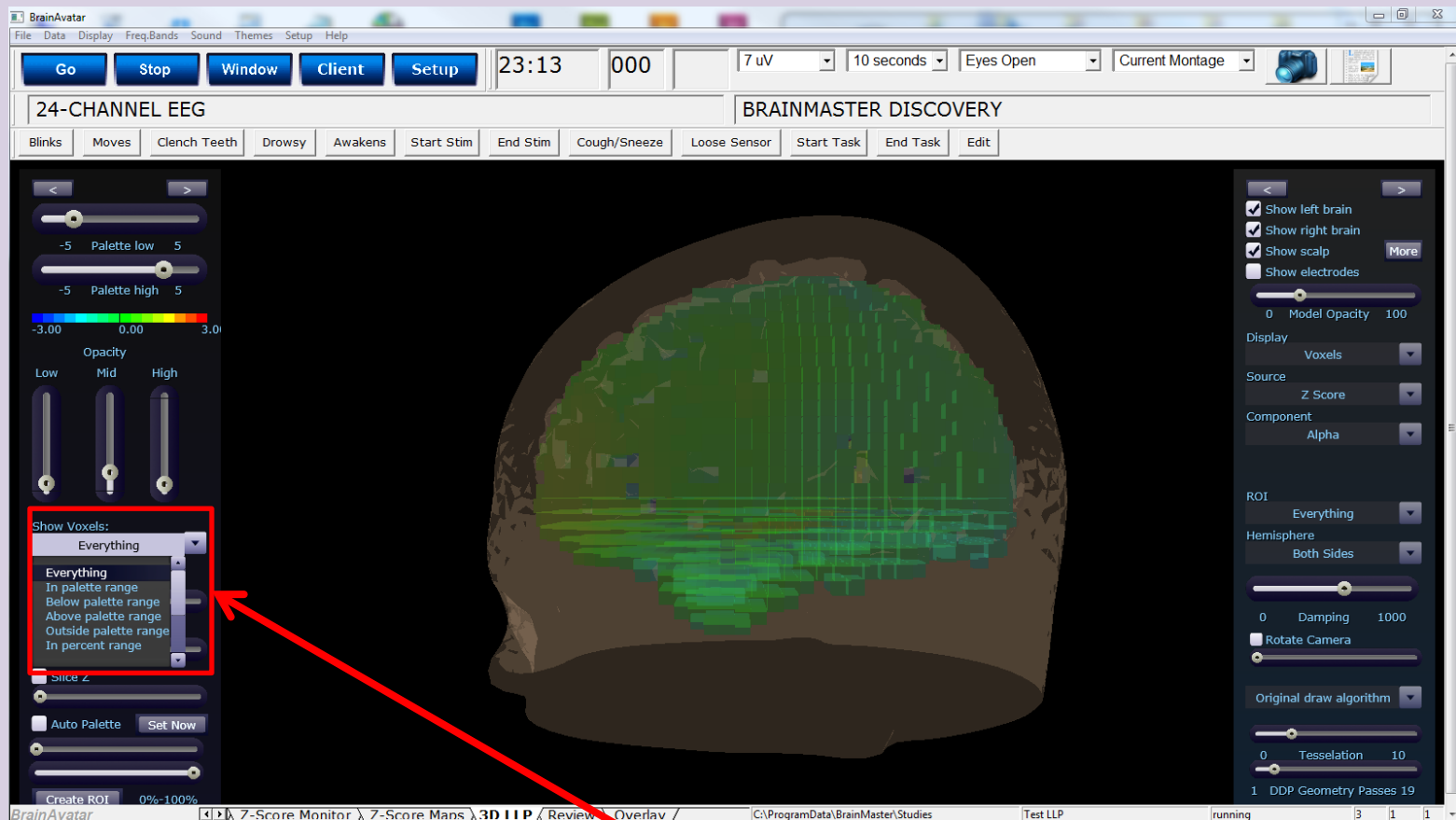


- The opacity controls adjust the transparency of the voxels displayed on the screen. You may adjust these to your liking to produce a desired affect. The example above shows diminished opacity where the previous pages shows maximum opacity.

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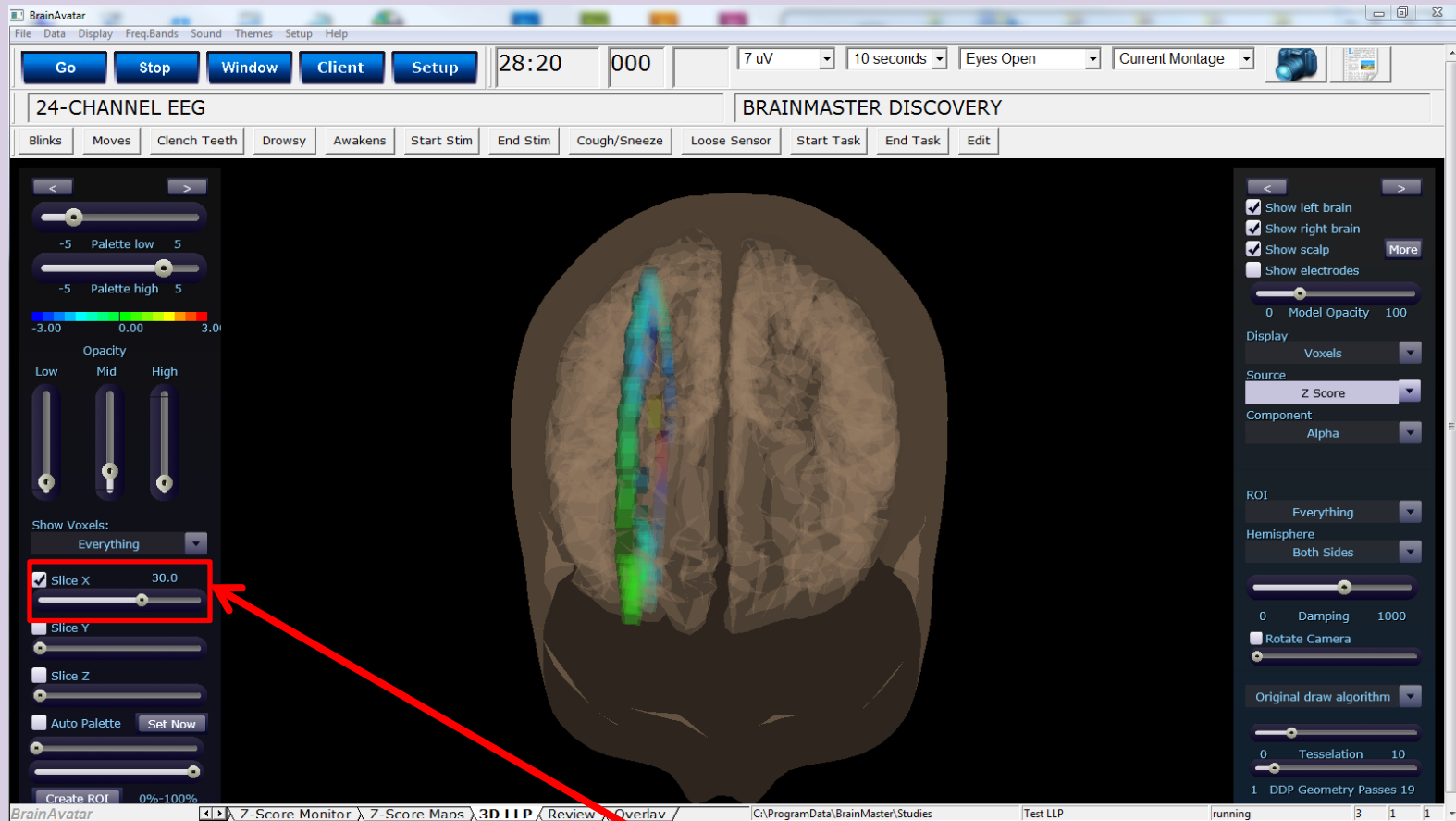


- The “Show Voxels: “ dropdown gives you additional options for viewing the voxels. While using the LLP, you may test each of these to discover the effects offered.

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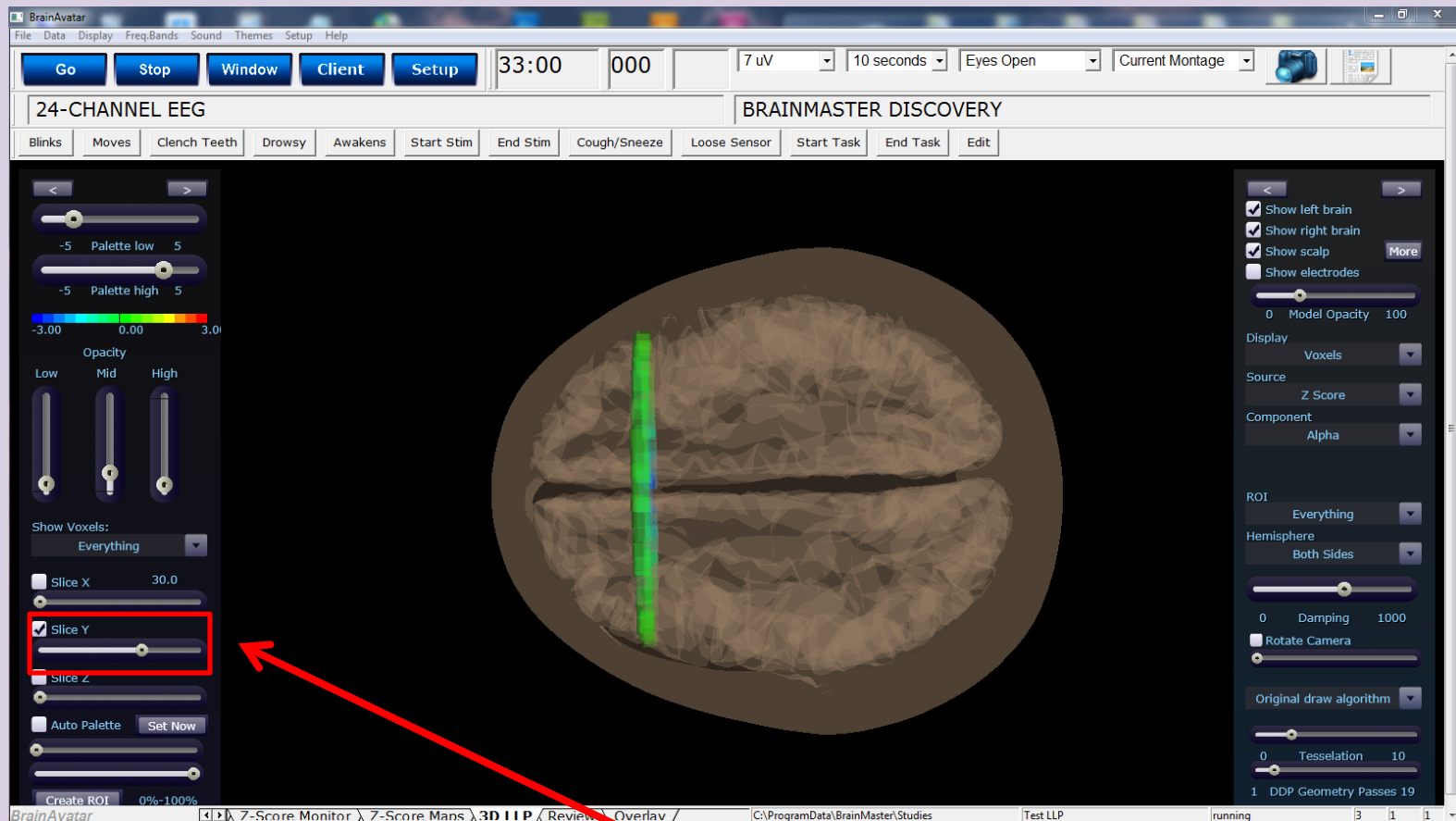


- When checked the “Slice X” slider displays a slice of the brain. Coordinate 0.0 would be a slice down the center sagittal section. Coordinate 100.00 would be the extreme left sagittal plane while -100 would be the extreme right.

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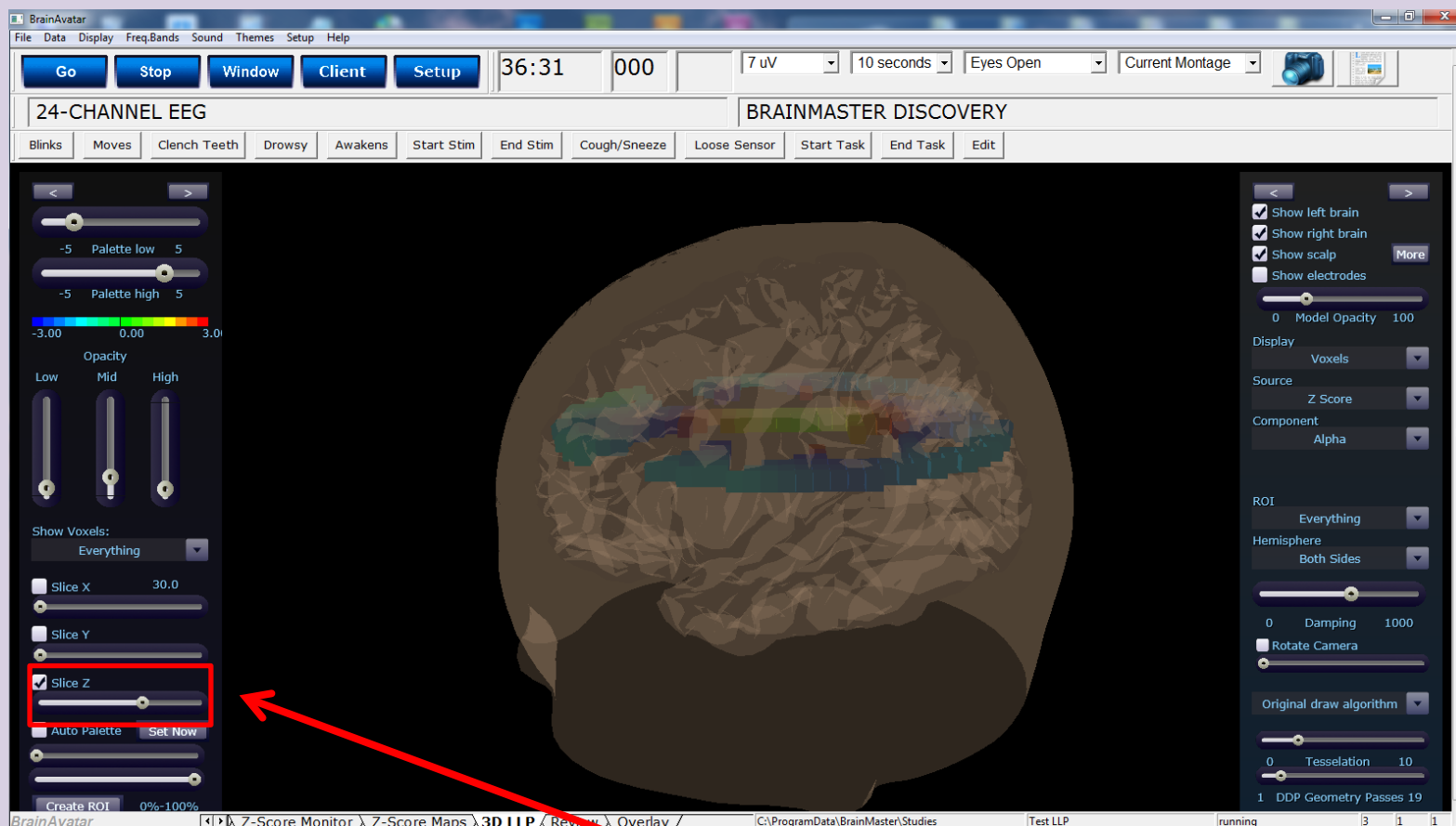


- In the same way when checked the “Slice Y” slider displays a frontal or coronal slice of the brain. Coordinate 0.0 would be a slice down the center coronal section. Coordinate 100.00 would be the extreme front coronal plane while -100 would be the extreme rear coronal plane.

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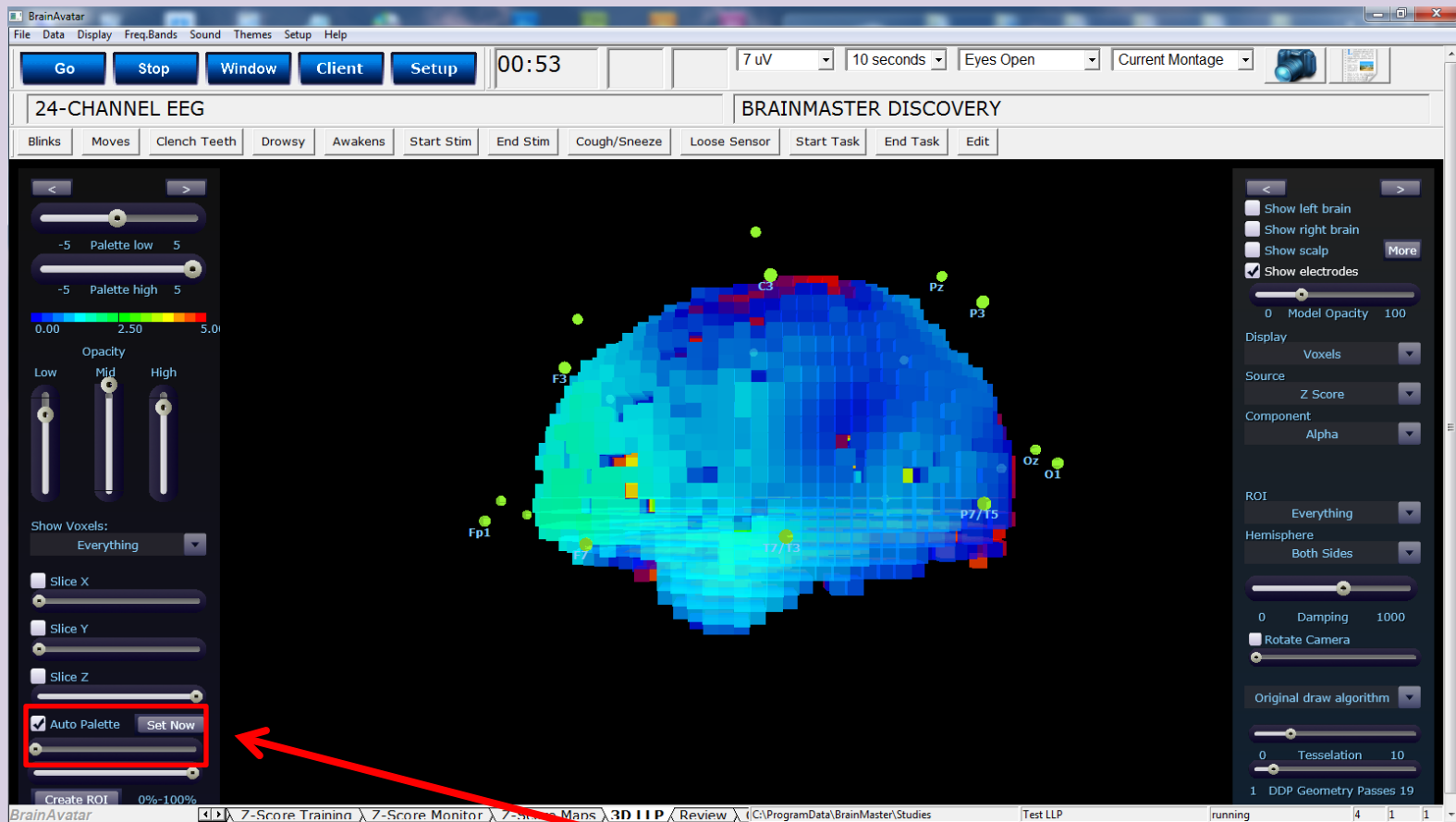


- In the same way when checked the “Slice Z” slider displays a horizontal or transverse slice of the brain. Coordinate 0.0 would be a slice across the center transverse section. Coordinate 100.00 would be the extreme top transverse plane while -100 would be the extreme bottom transverse plane.

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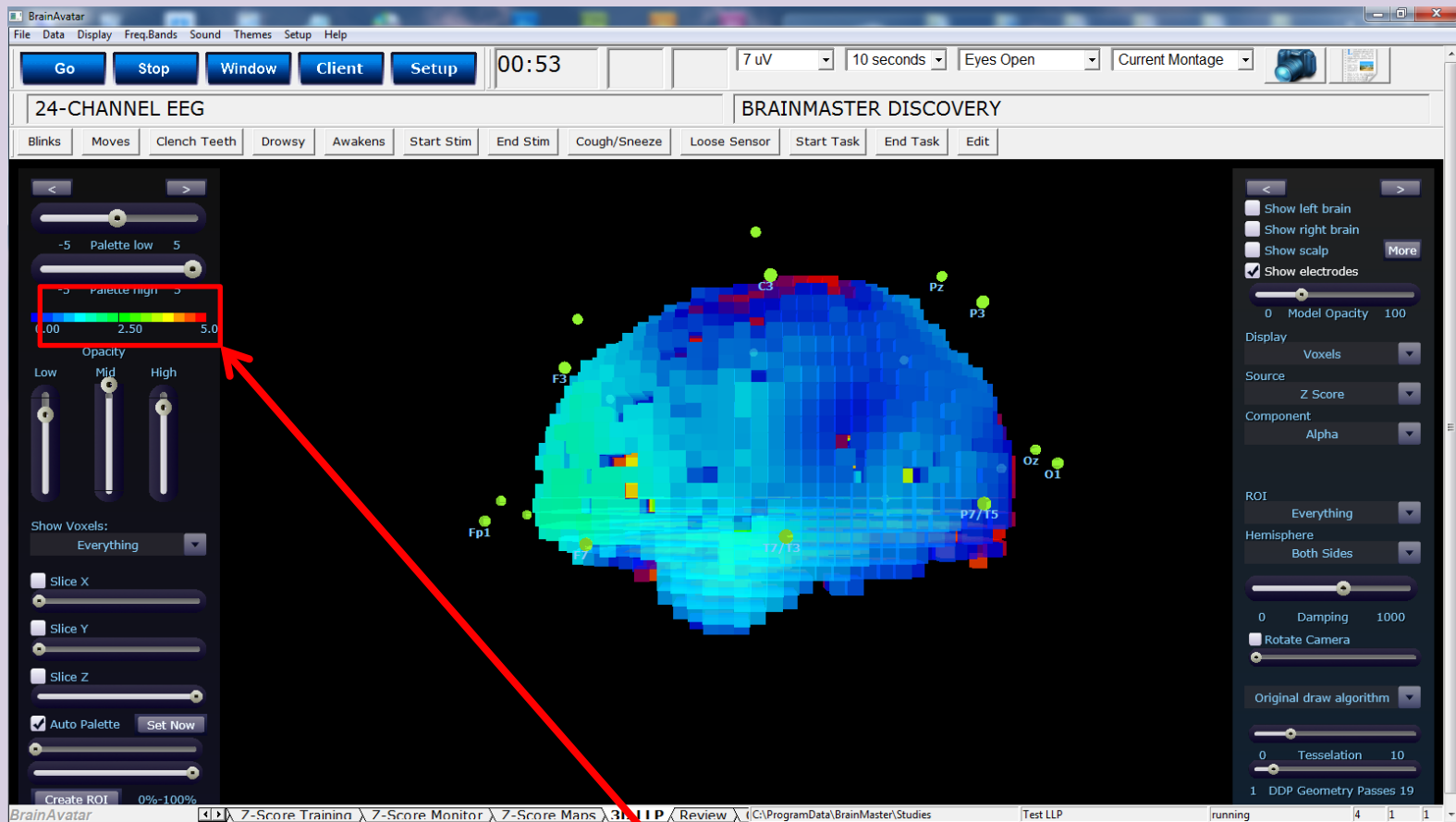


- When Auto Palette is checked, the LLP searches for the optimal range to display the Z-Scored voxels. When activated it begins a search which you will notice by the palette sliders moving independently at the top. When the sliders' movement settles down optimum range has been found and you may depress the "Set Now" button to lock in the settings.

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The Protocol is now ready for Modification



- The z-score range and associated colors will be displayed on the color bar. If the range selected by the Auto Palette is not to your liking, you can always readjust the range by moving the Palette low and Palette high sliders manually.

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Next we may save our changes

BrainAvatar Setup

Main | Login | Folder | Settings | EDF Browser | Review | Global Settings

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard | Acquisition | Montage | Z Scores | Session Wizard | Atlantis HW | Electrodes

NOTE: Please enter all times as whole seconds (1, 2, 3, etc)

Baseline Length (pre and post):
0 Seconds (before and after)
(Length of 0 means "no baselines")

Run Length:
0 Seconds
(0 means run indefinitely)

Number of Sessions:
80 sessions (80 maximum)
(0 allows repeated use of Test Session 1)

Number of Runs (Trials):
1 Runs
(Must have at least one Run)

Session Type:

- ☐ Assessment
- ☒ Training
- ☐ Simulation
- ☐ Playback
- ☐ Synthesize
- ☐ Calibration

☐ Pause Between Runs?

Session Wizard

☐ Use Session Wizard to control session (use with MINI-Q)

Logged in, device type Discovery

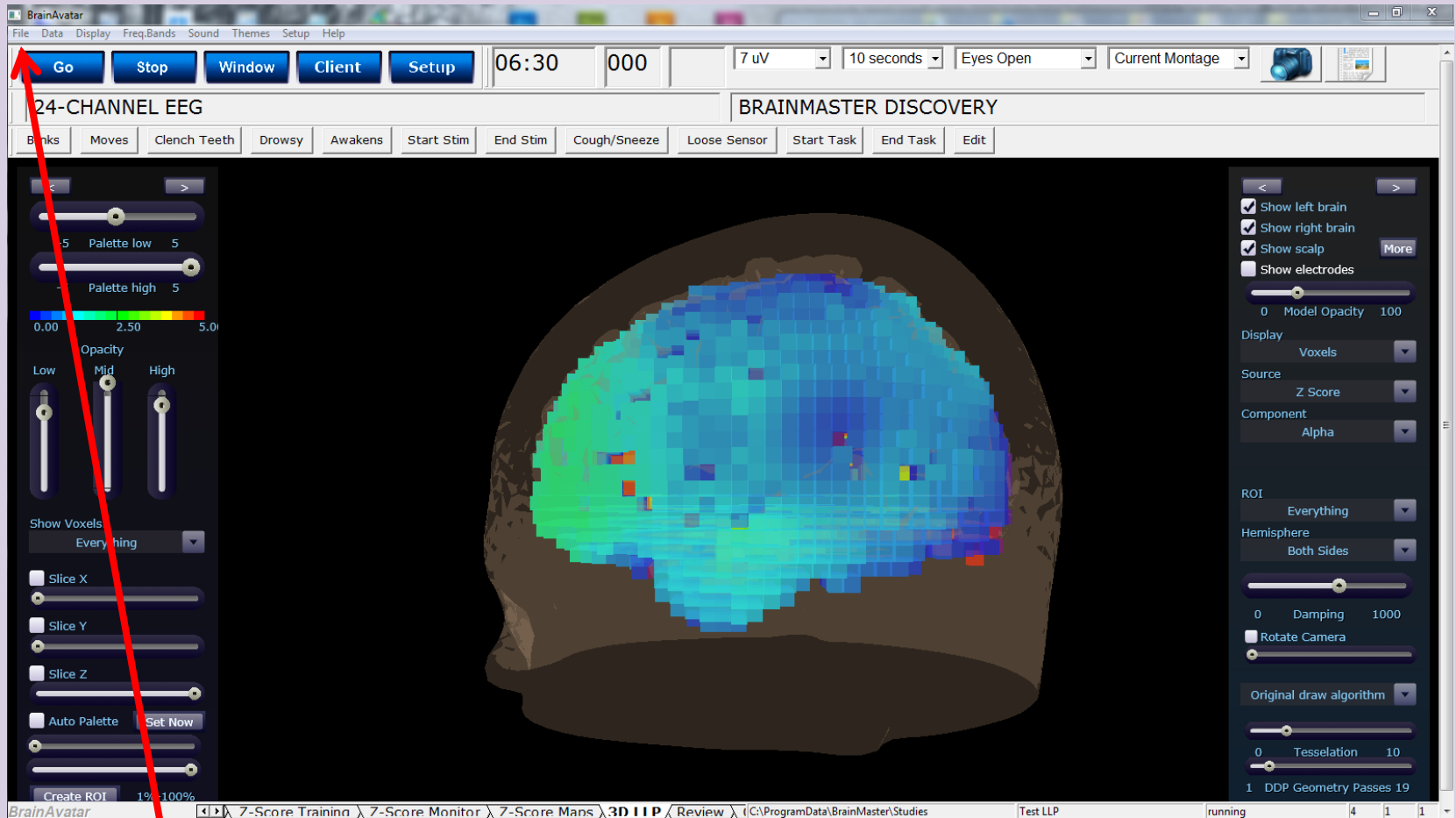
Use Settings and Close | Use These Settings | Exit

Before saving the changes be certain to adjust the session setting from Simulation back to Training so that it is ready to go when working with a client.

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Next we may save our changes



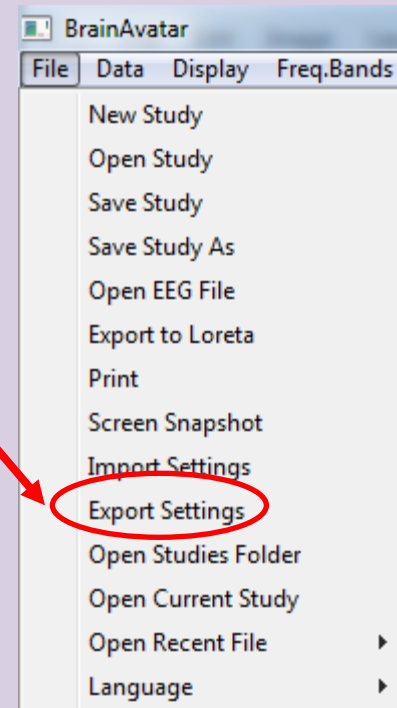
Applaud the great work you have accomplished. In order to save the setting, click “File”.

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Level 4

Next click “Export Settings”.

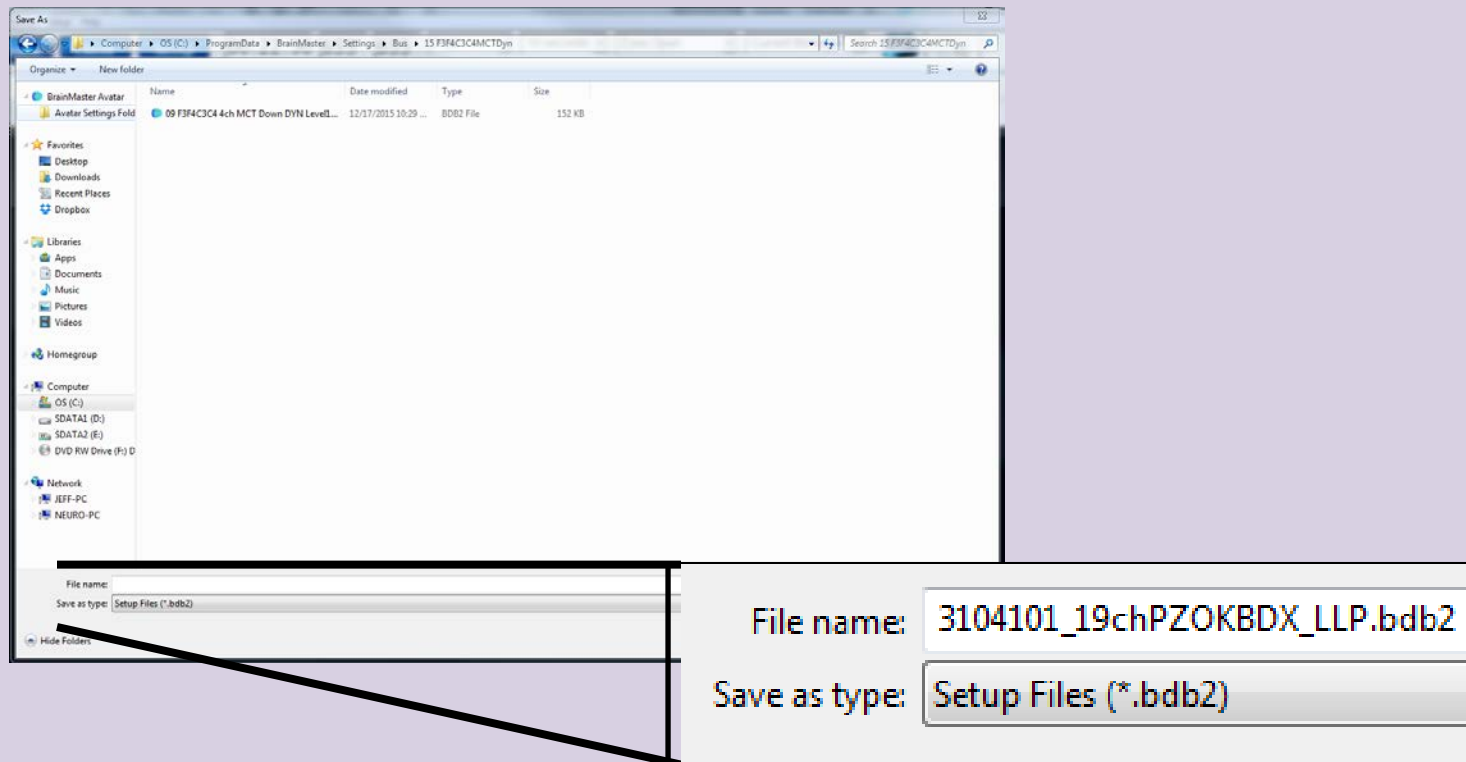


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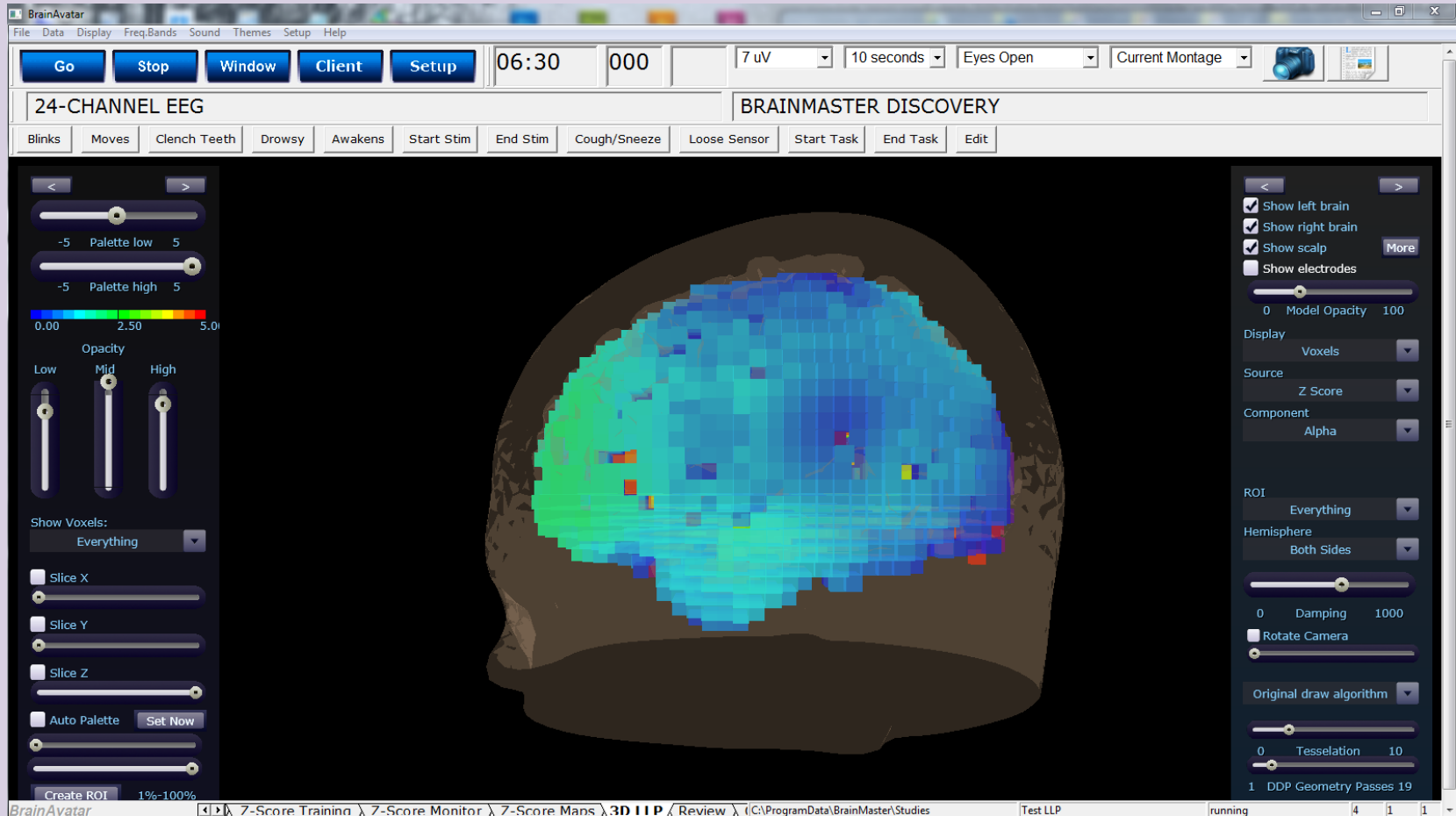
Find the folder where you keep these settings and name the file appropriately in the “File Name:” window.



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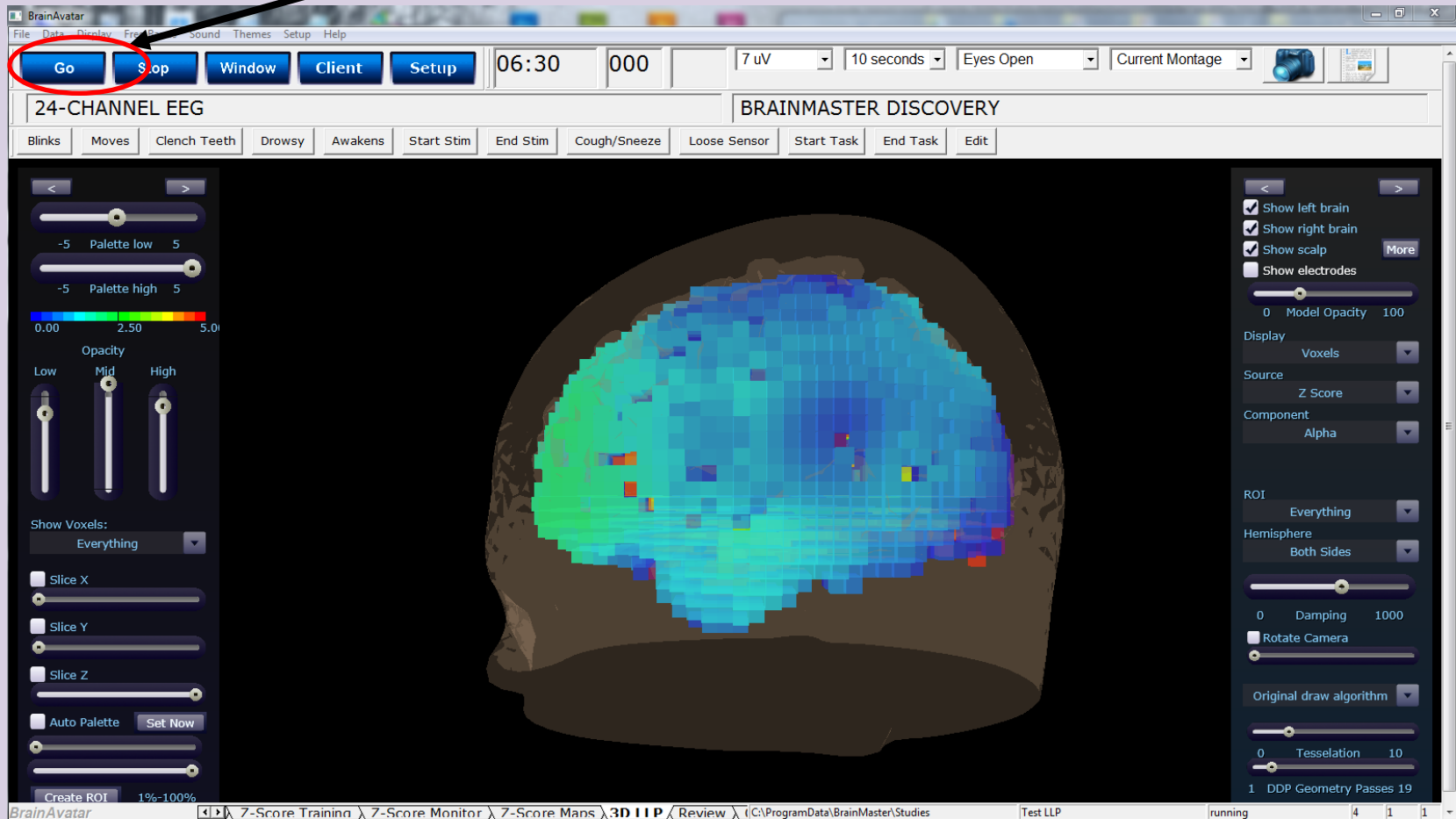
The Protocol Is now ready to run with the LLP included.



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19chPZOK

To run the protocol click the “Go” Button



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