

Power Point Manual

Get On The
BUS



BrainMaster
Universe
Simplified



“Deep”
level 2

Deep

Level 2

- How can I modify the Deep Settings to change selected frequency bands?

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.

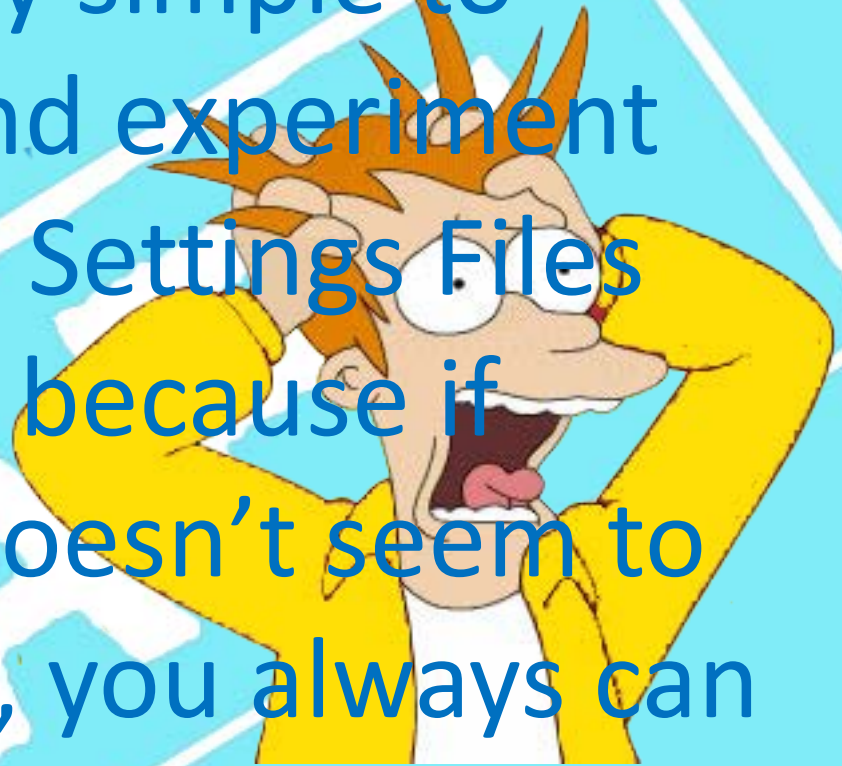
DEEP

Level 2

- The Level 1 Base Setting for the Deep Protocol included the electrode placement of Pz to train up theta (4-7Hz) and alpha (8-12Hz).
- Perhaps the specification for this client is to train up a lower theta (3-6Hz) and low alpha (8-10Hz) at Pz.
- Lets learn how to change the frequency bands.

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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 2

Lets Begin

- Make Sure the Atlantis Amplifier is plugged in.

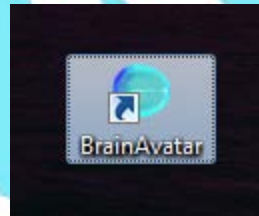


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Level 2

- Open BrainAvatar by double-clicking the BrainAvatar Icon

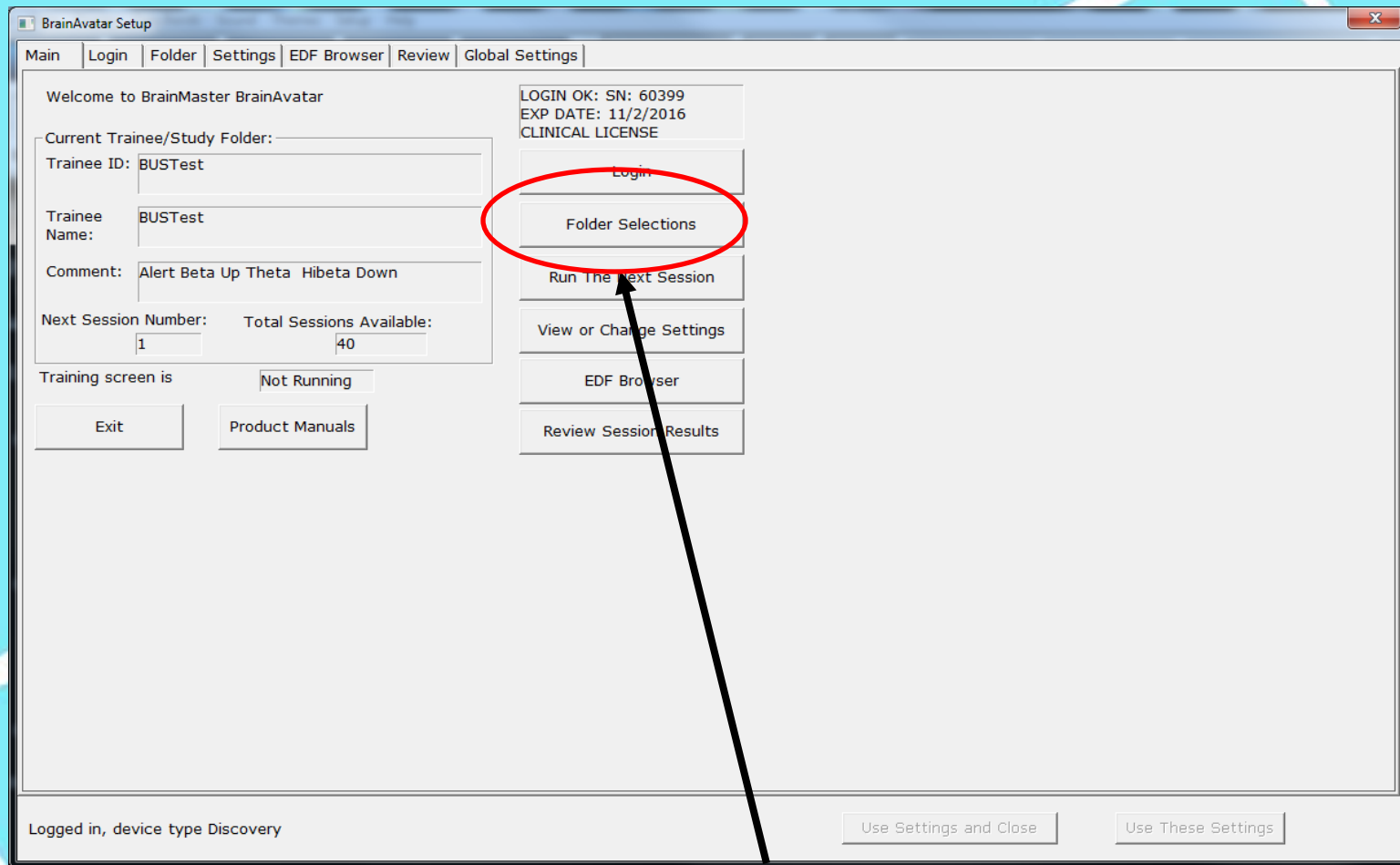


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- The Select Folder Screen will appear.
- By now you should know how to either create a new client folder or recall an existing client folder.
- For the purposes of this exercise let's open and utilize the "BUSTest" Folder which may already be resident 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

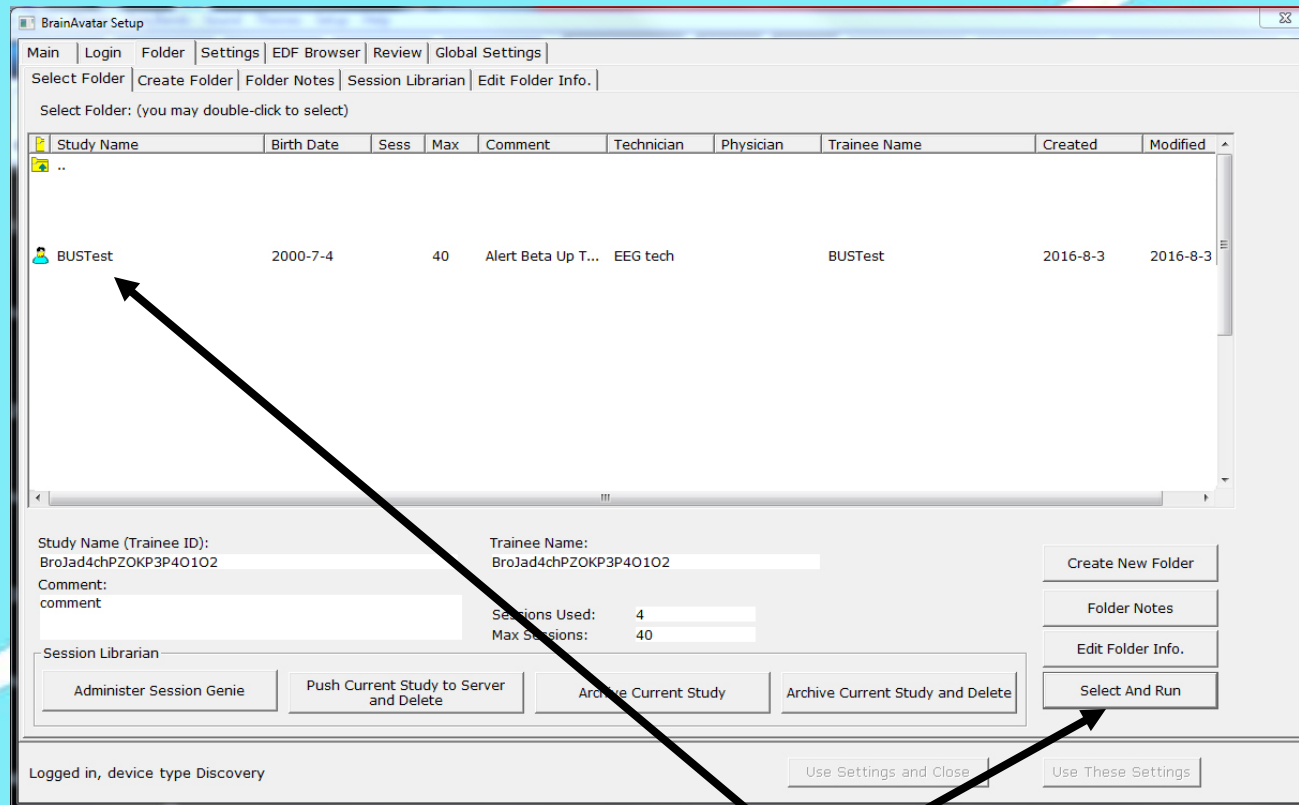
Create New Folder | Folder Notes | Edit Folder Info. | Select And Run

Logged in, device type Discovery

Use Settings and Close | Use These Settings

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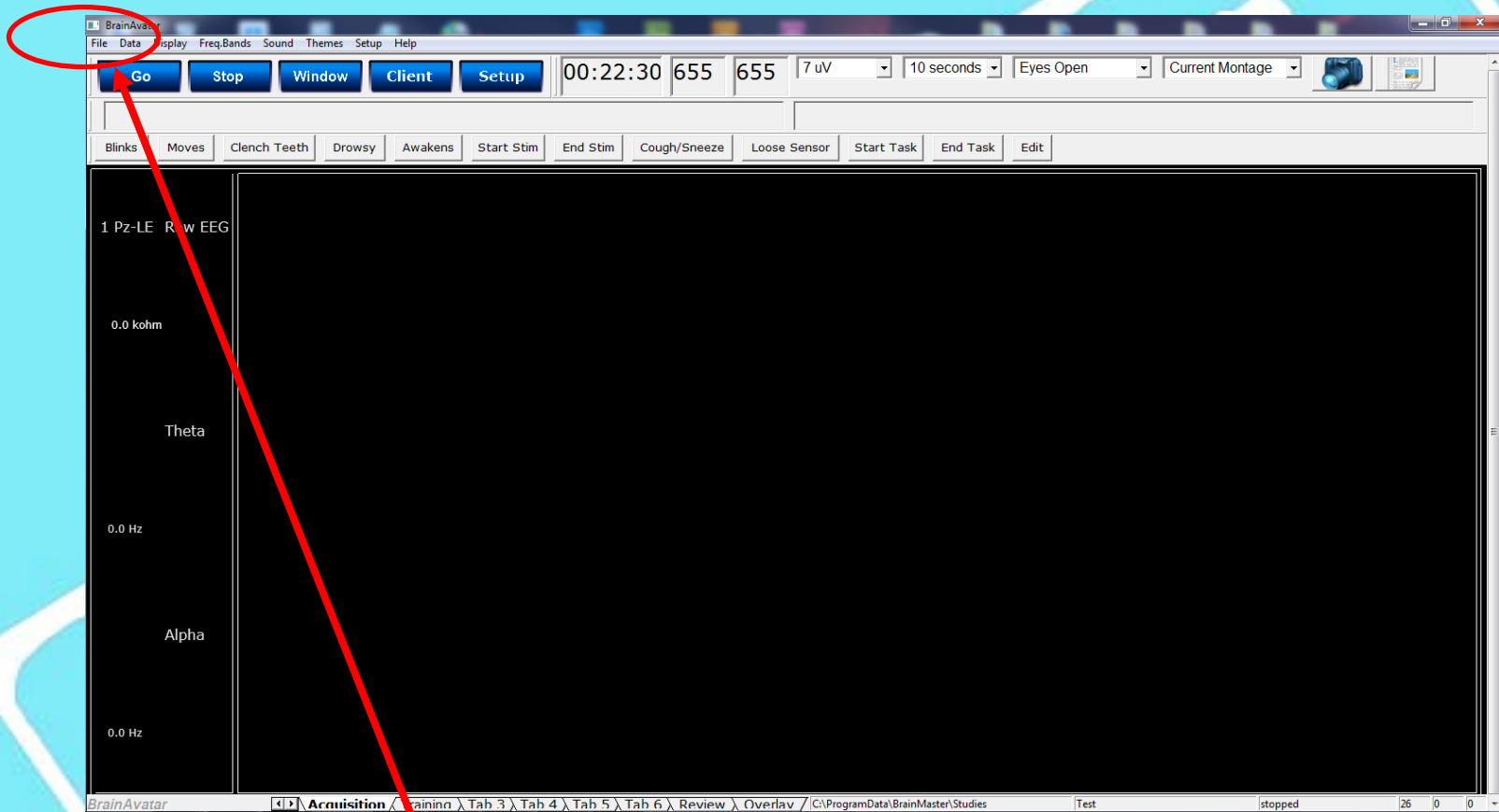
- The Select Folder Screen will appear.



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

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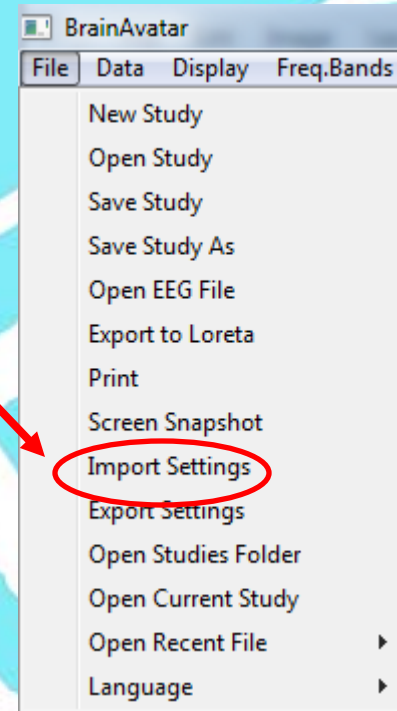
- The BrainAvatar Acquisition Screen is illuminated. The original DEEP Level 1 Setting File should be loaded.




- However, if it is not then click “File” from the Main Menu at the top.

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- Next click “Import Settings”.



- Scroll to find the original Deep Level 1 File and double click it.

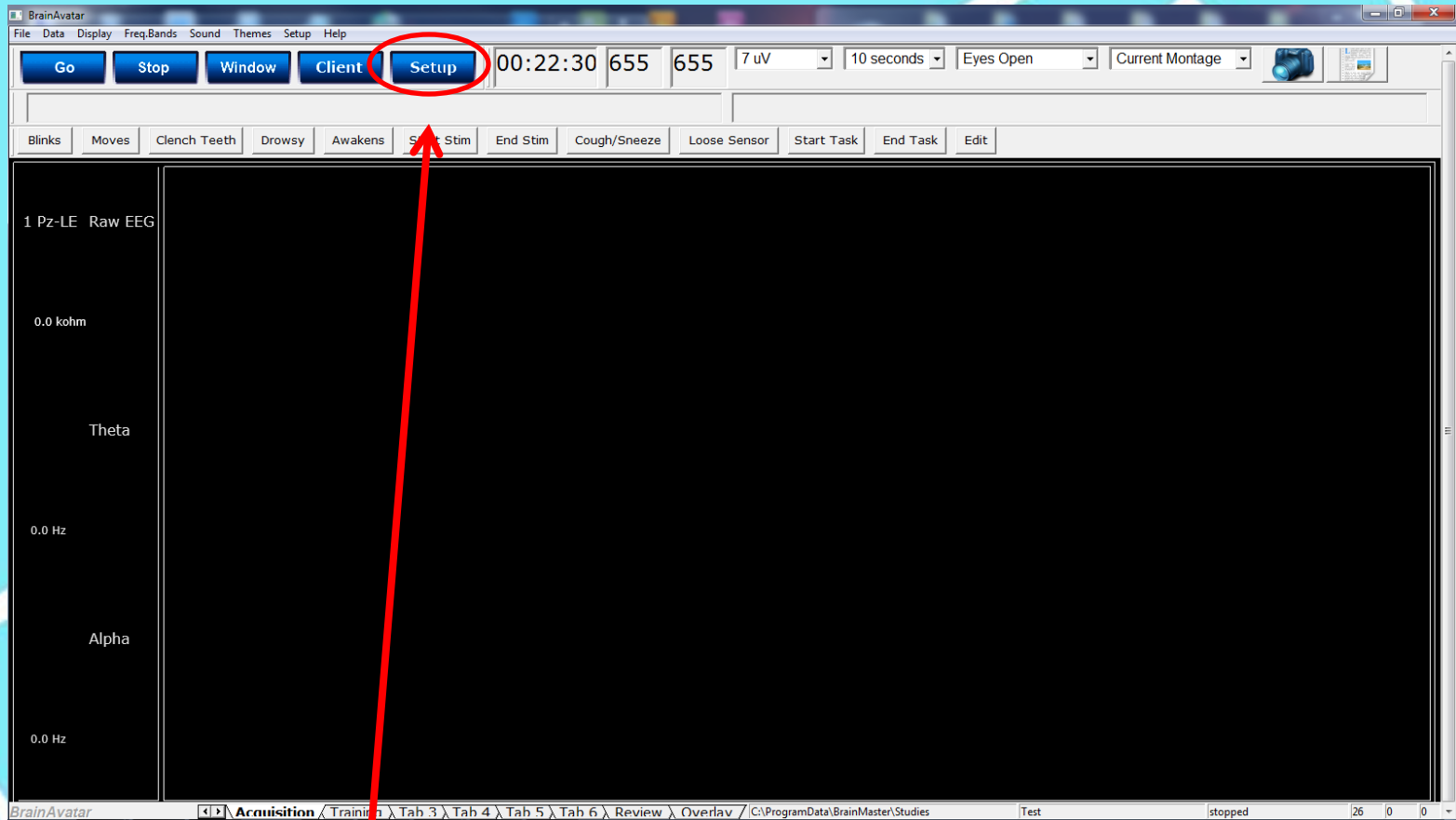
Name	Date modified	Type	Size
 0301001DeepLevel001.bdb2	11/16/2015 6:53 PM	BDB2 File	136 KB

- The original Deep Level 1 setting is imported into the Client's Study and is now ready for modification.

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DEEP

The Protocol is now ready for Modification

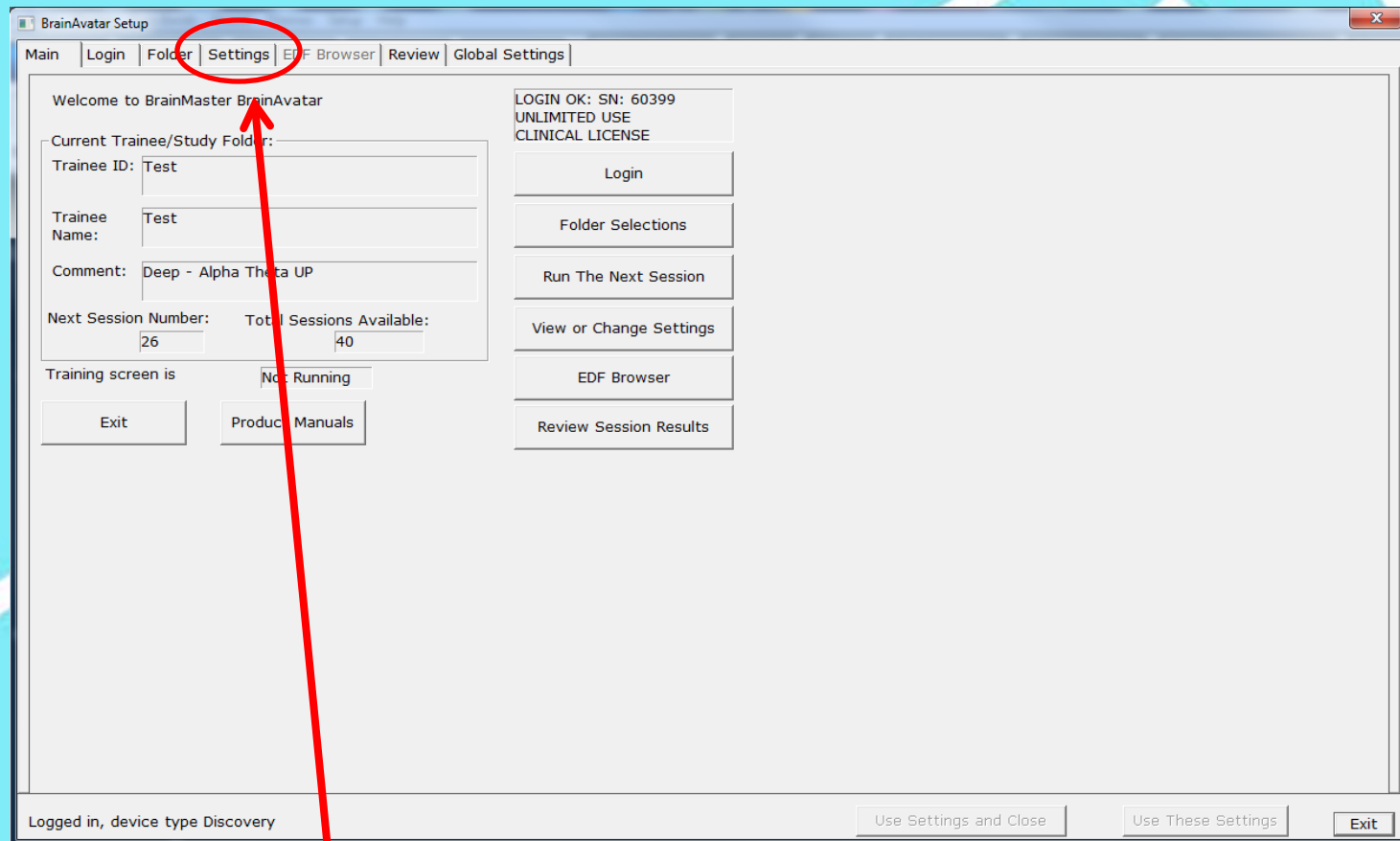


- Click “Setup”.

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The Protocol is now ready for Modification

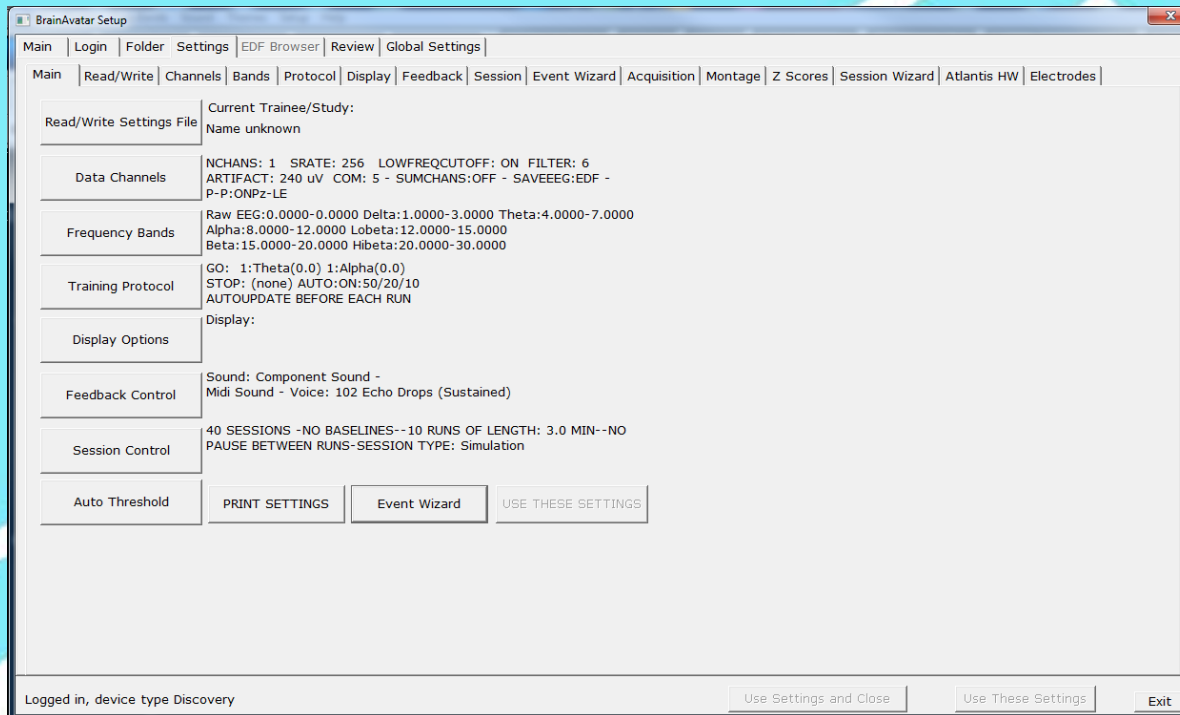


- Click “Settings”.

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DEEP

The Protocol is now ready for Modification

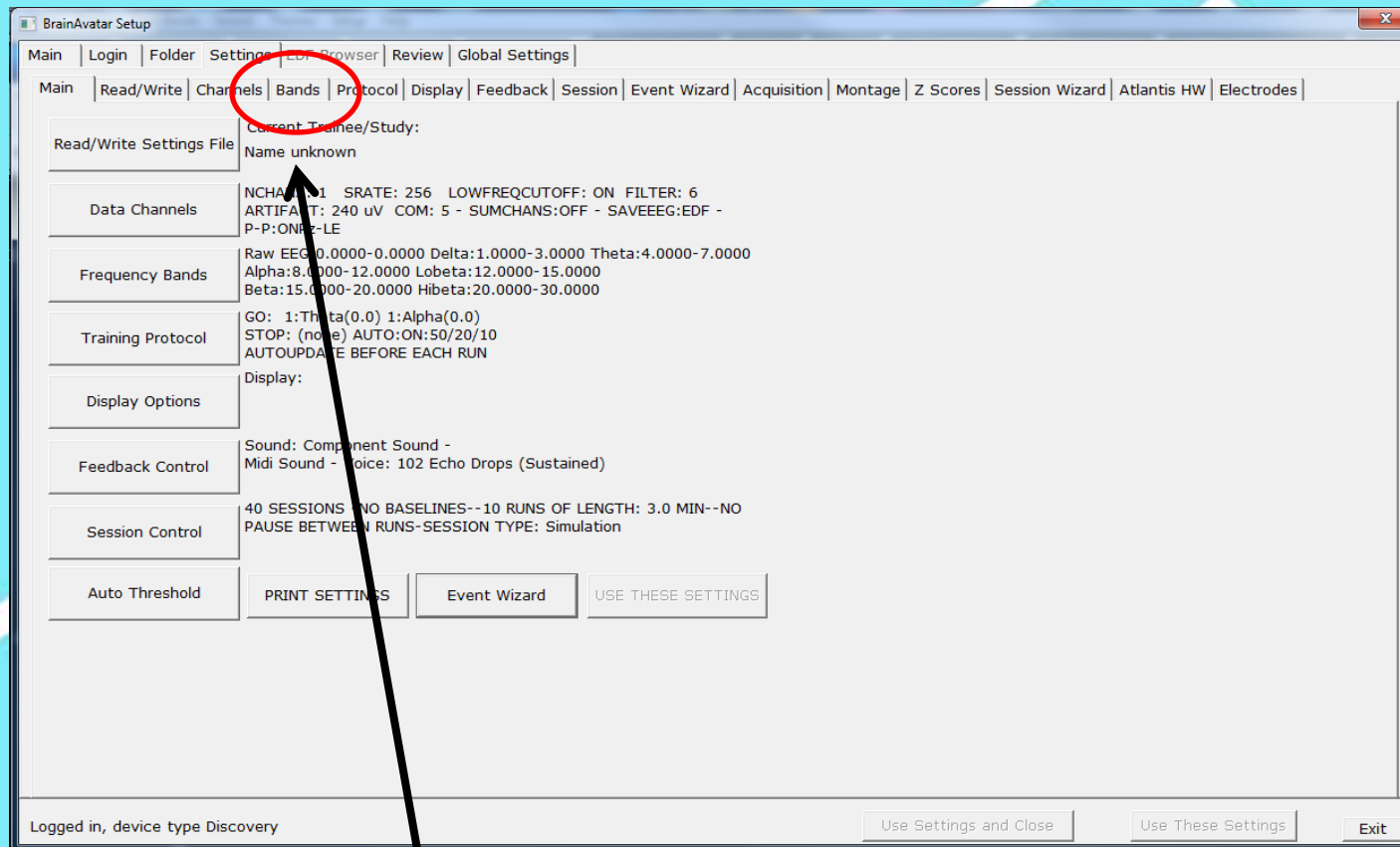


YOU ARE NOW ABOUT TO ENTER THE “BRAIN CENTER” OF THE BRAINAVATAR PROGRAM. ANY HAPHAZARD MODIFICATIONS HERE WITHOUT KNOWLEDGE MAY CAUSE UNPREDICTABLE RESULTS. THIS INSTRUCTION MANUAL WILL GIVE YOU THE PROPER KNOWLEDGE TO ALTER THESE CONTROL SCREENS WITHOUT CONCERN. AGAIN, YOU CAN ALWAYS INSTALL THE ORIGINAL SETTING FILE IF NECESSARY.

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DEEP

The Protocol is now ready for Modification

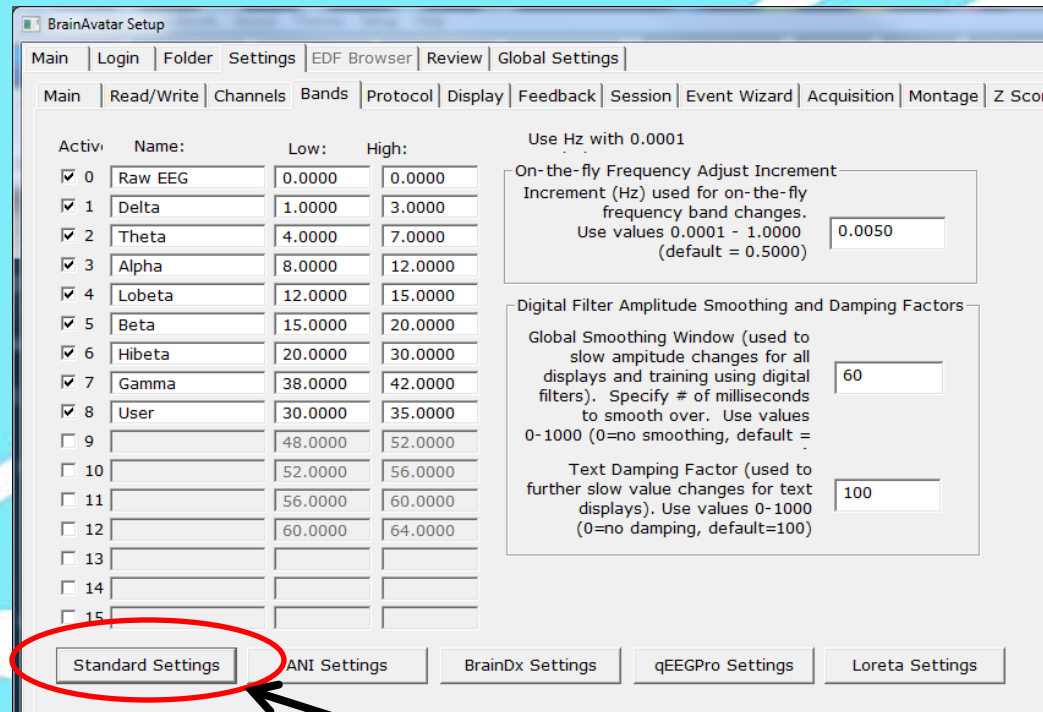


Click "Bands".

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The Protocol is now ready for Modification



This is the Bands Screen where frequency bands are defined. The default setting for the Frequency Bands are “Standard Settings” which you can always return to by clicking the “Standard Settings” Button.

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DEEP

The Protocol is now ready for Modification

Active	Name	Low	High
<input checked="" type="checkbox"/>	0 Raw EEG	0.0000	0.0000
<input checked="" type="checkbox"/>	1 Delta	1.0000	3.0000
<input checked="" type="checkbox"/>	2 Theta	4.0000	7.0000
<input checked="" type="checkbox"/>	3 Alpha	8.0000	12.0000
<input checked="" type="checkbox"/>	4 Lobeta	12.0000	15.0000
<input checked="" type="checkbox"/>	5 Beta	15.0000	20.0000
<input checked="" type="checkbox"/>	6 Hibeta	20.0000	30.0000
<input checked="" type="checkbox"/>	7 Gamma	38.0000	42.0000
<input checked="" type="checkbox"/>	8 User	30.0000	35.0000
<input type="checkbox"/>	9	48.0000	52.0000
<input type="checkbox"/>	10	52.0000	56.0000
<input type="checkbox"/>	11	56.0000	60.0000
<input type="checkbox"/>	12	60.0000	64.0000
<input type="checkbox"/>	13		
<input type="checkbox"/>	14		
<input type="checkbox"/>	15		

Use Hz with 0.0001

On-the-fly Frequency Adjust Increment
Increment (Hz) used for on-the-fly frequency band changes.
Use values 0.0001 - 1.0000 (default = 0.5000)

Digital Filter Amplitude Smoothing and Damping Factors

Global Smoothing Window (used to slow amplitude changes for all displays and training using digital filters). Specify # of milliseconds to smooth over. Use values 0-1000 (0=no smoothing, default = 60)

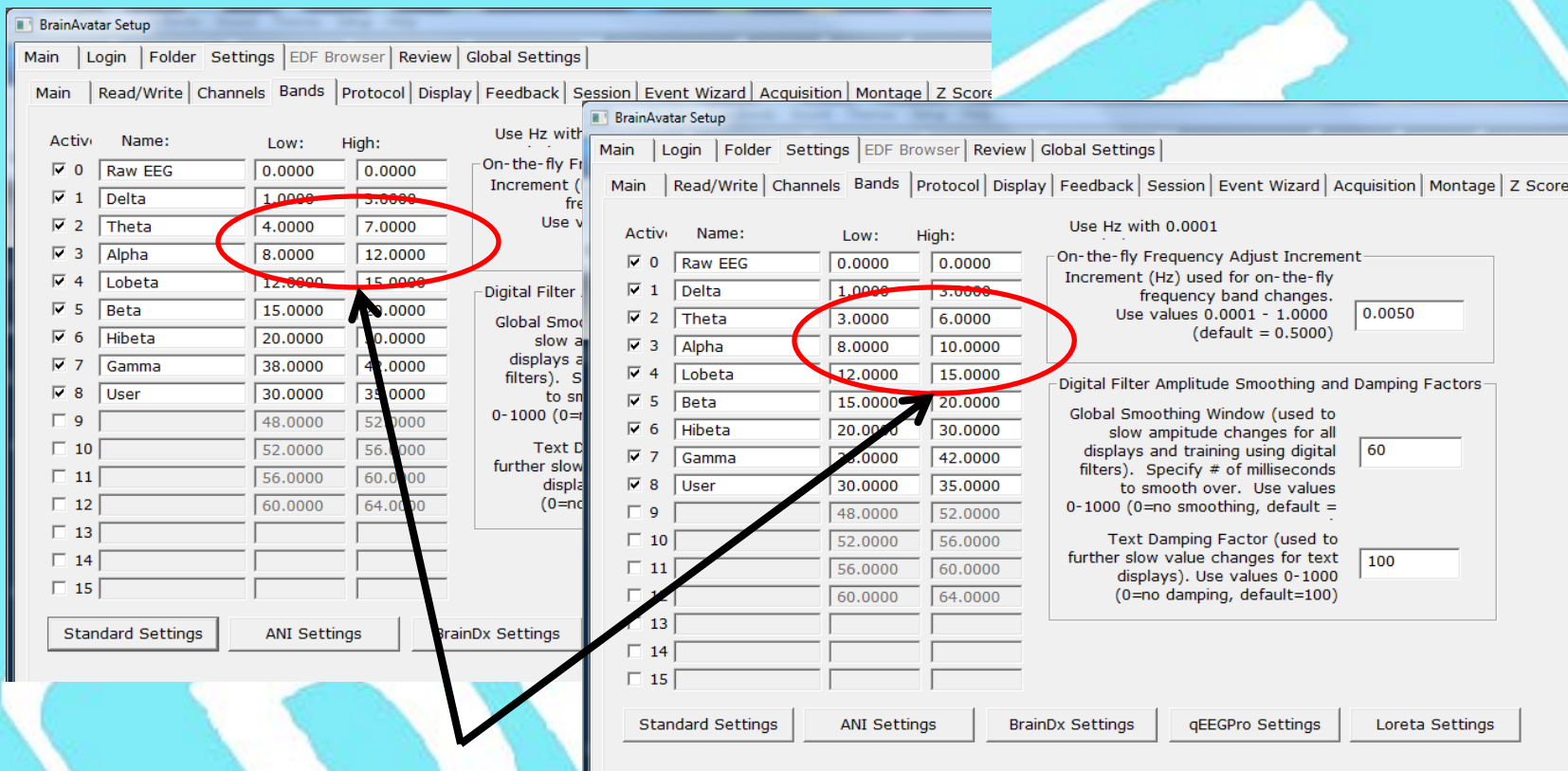
Text Damping Factor (used to further slow value changes for text displays). Use values 0-1000 (0=no damping, default=100)

Presets for “ANI Settings, BrainDx Settings, “qEEGPro Settings” and “Loreta Settings” may be clicked if the frequency band requirements are set by a specific database.

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DEEP

The Protocol is now ready for Modification

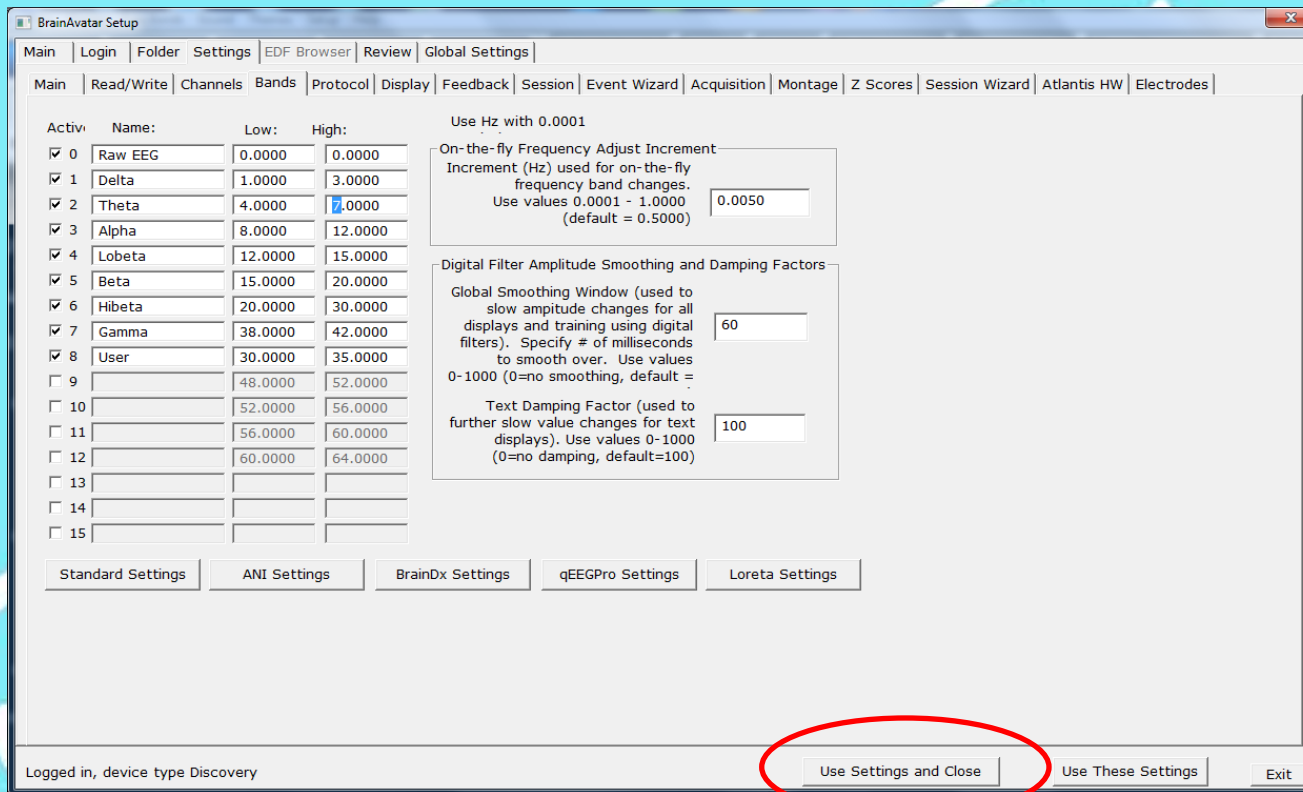


If, for instance you have a specific frequency band requirement such as Theta which should be 3-6Hz rather than 4-7Hz, and alpha needs to be 8-10Hz rather than 8-12Hz, all you need to do is change the frequency bands in the Theta and Alpha window.

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The Protocol is now ready for Modification

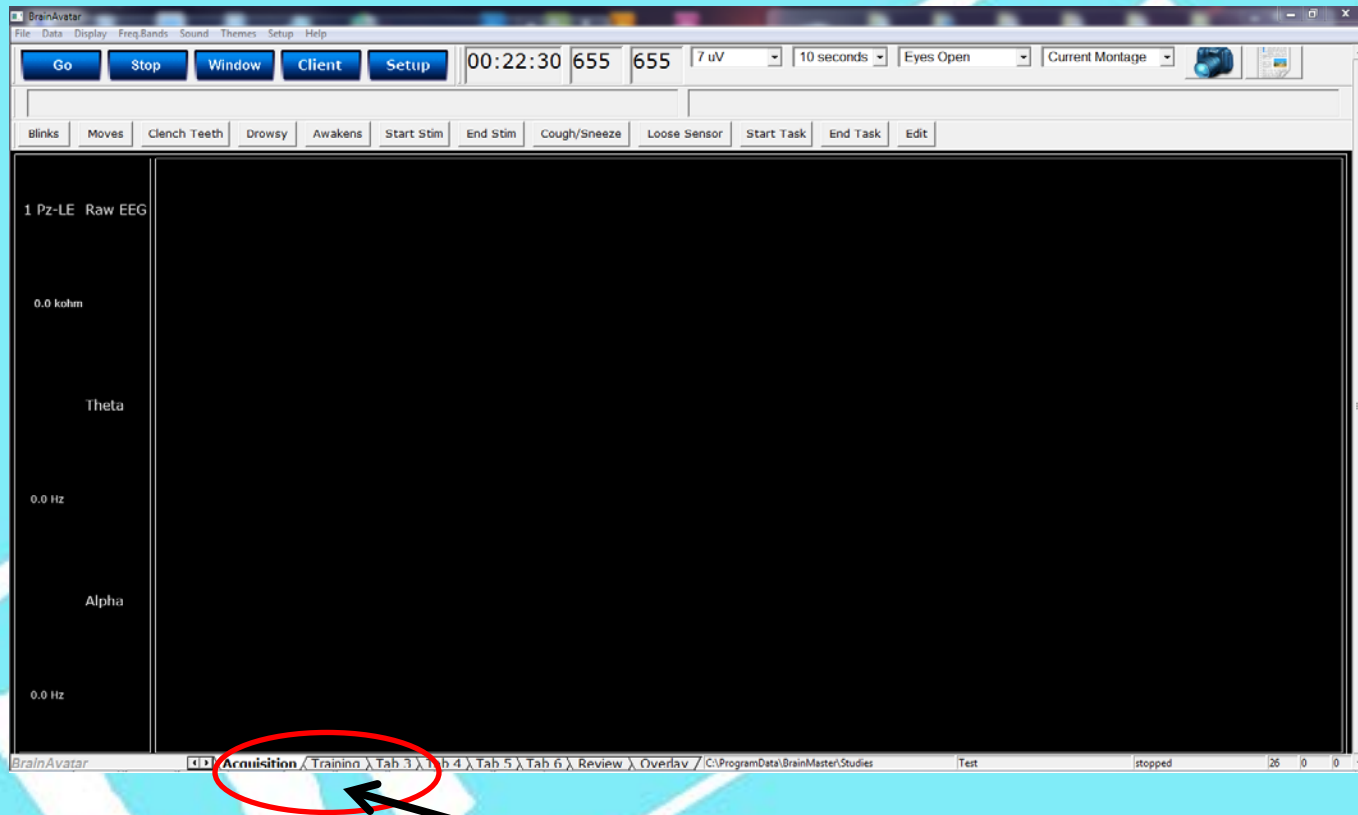


Once the bands have been changed click “Use Settings and Close” to save the change and exit the settings window.

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The Protocol is now ready for Modification

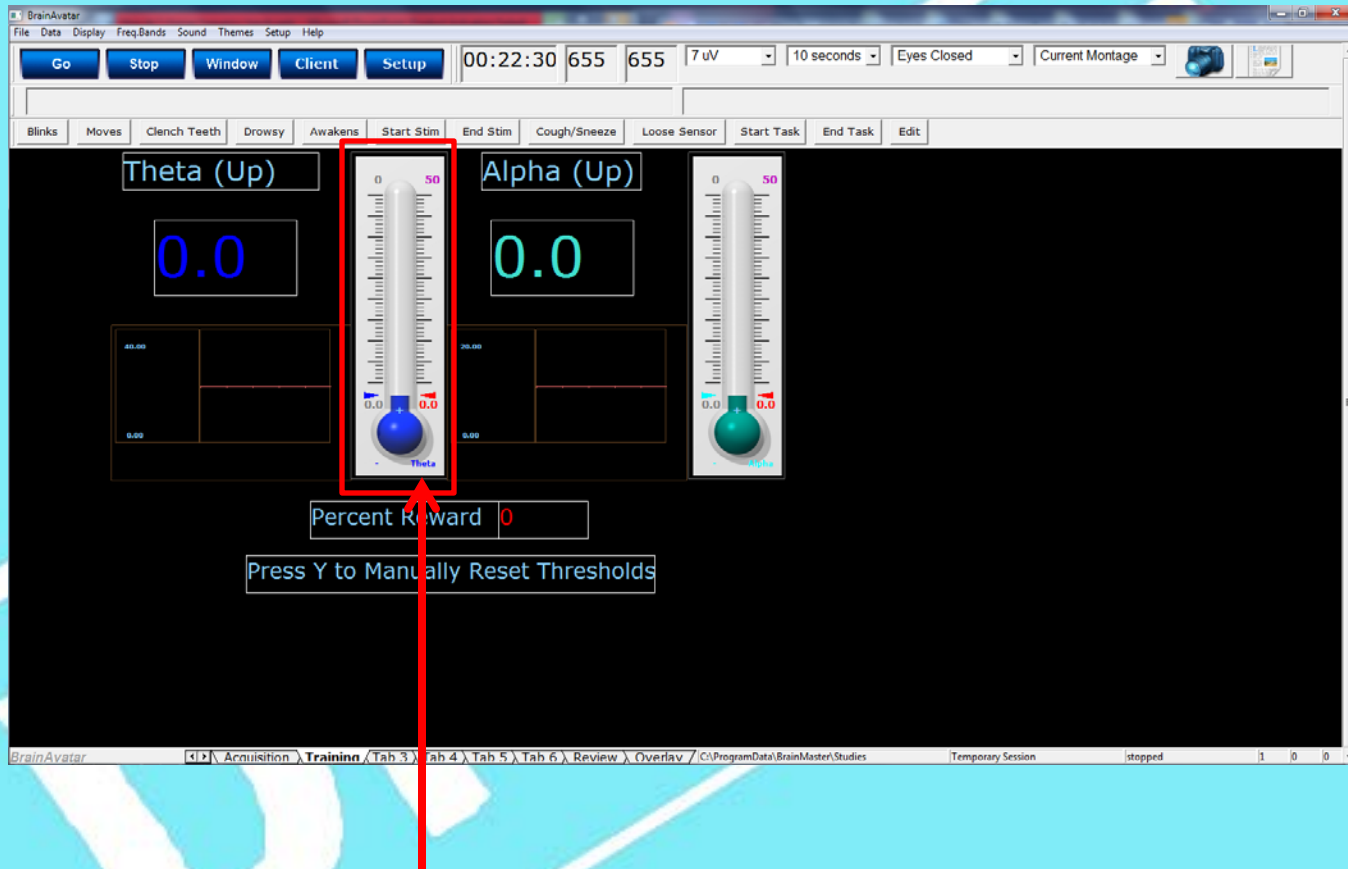


Once you close the Settings Screen you are returned to the “Acquisition Tab” of the Protocol. Switch to the “Training Tab”.

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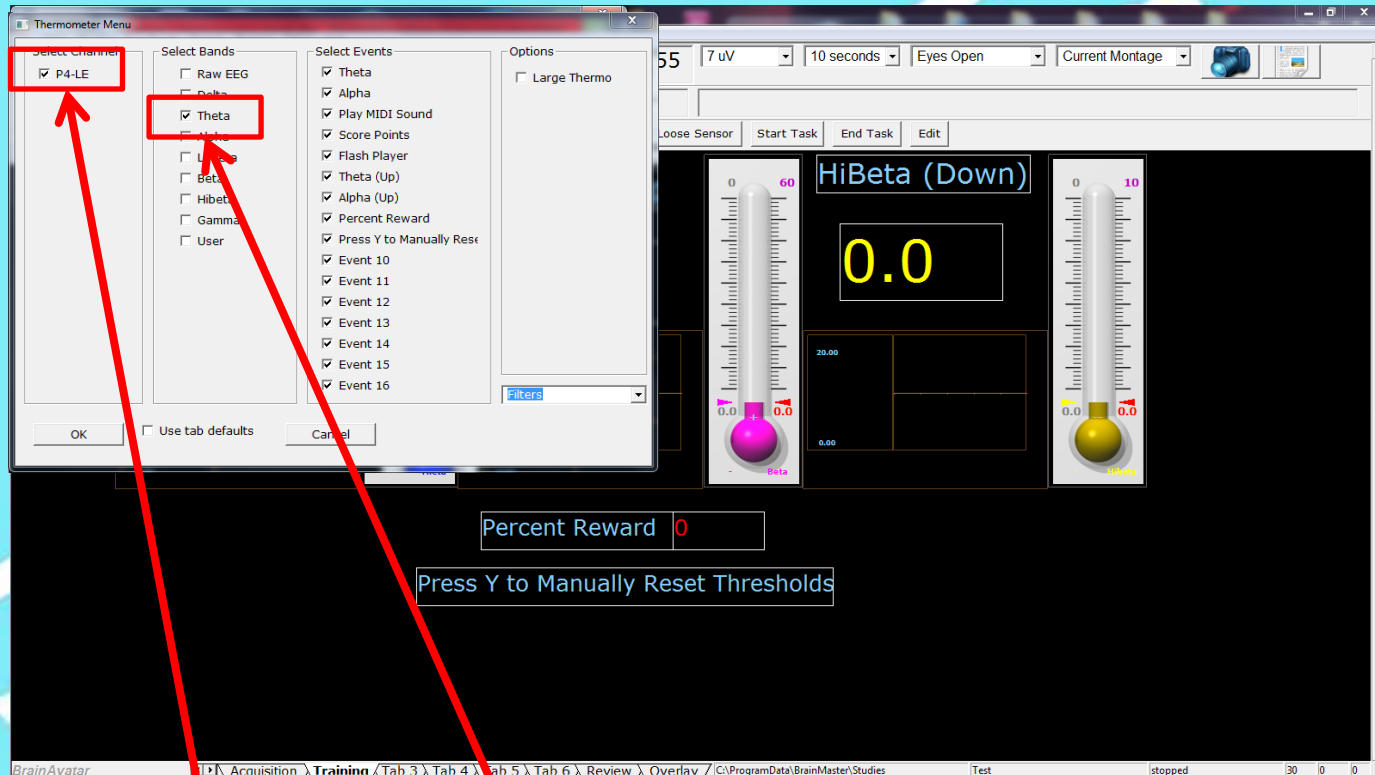


Once on this screen “Right-Click” on the Theta Thermometer.

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The Protocol is now ready for Modification

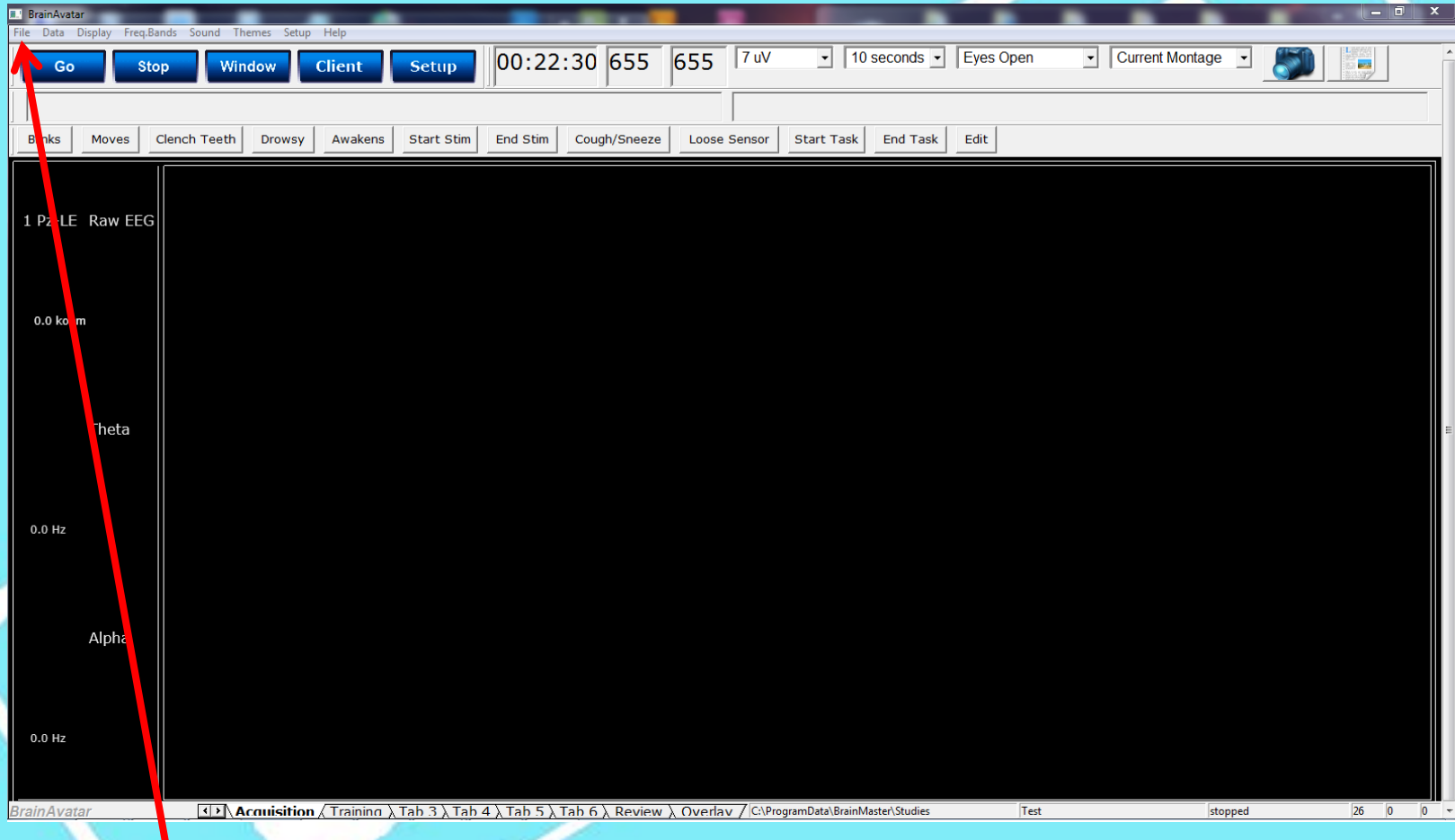


The “Thermometer Menu” appears. Notice this thermometer is operated by P4-LE, and the Theta Band. Guess What? Having changed the Theta band from 4-7Hz to 3-6Hz automatically changed the Training Frequency. The same is also true for the Alpha band.

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The Protocol is now ready for Modification



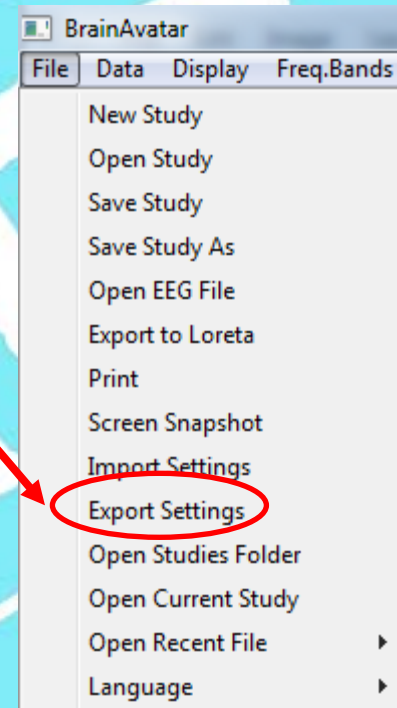
In order to save this modified setting click “File” on the top menu.

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Level 2

Next click “Export Settings”.

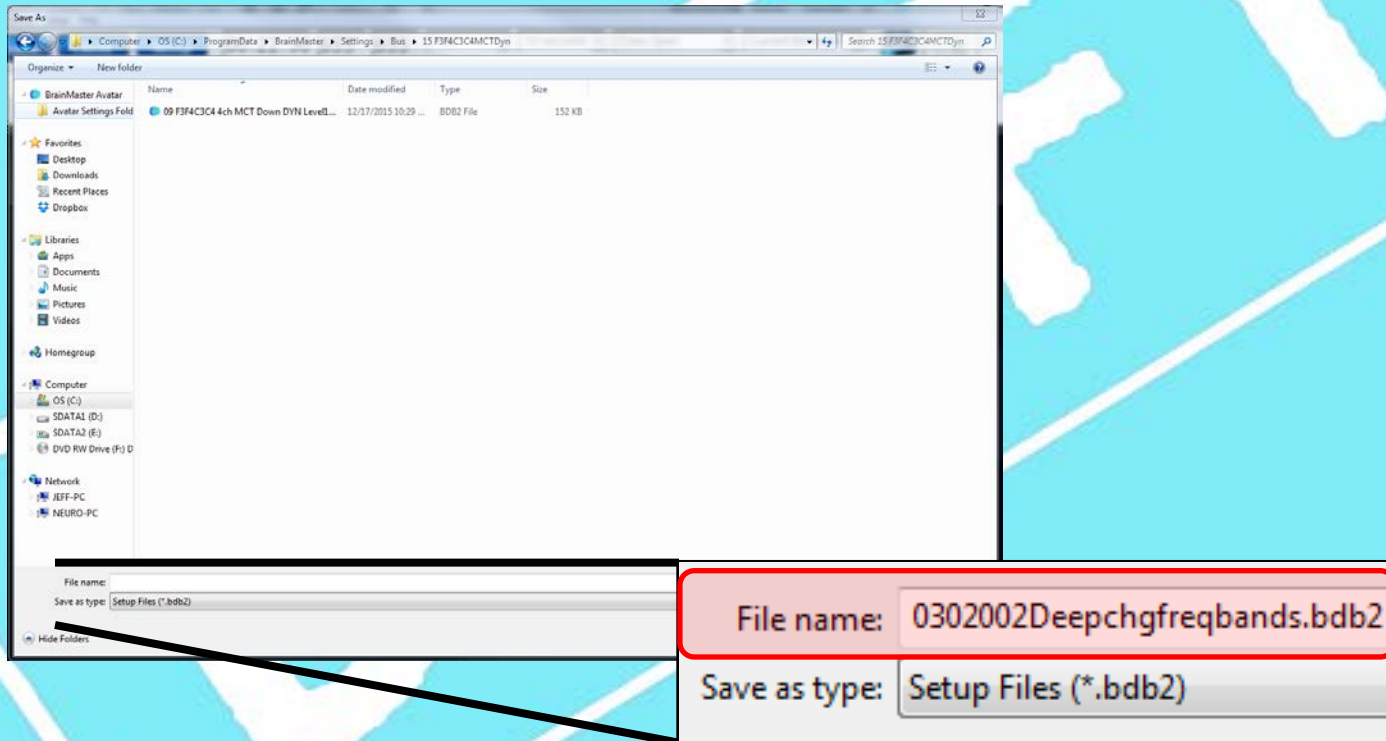


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Level 2

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

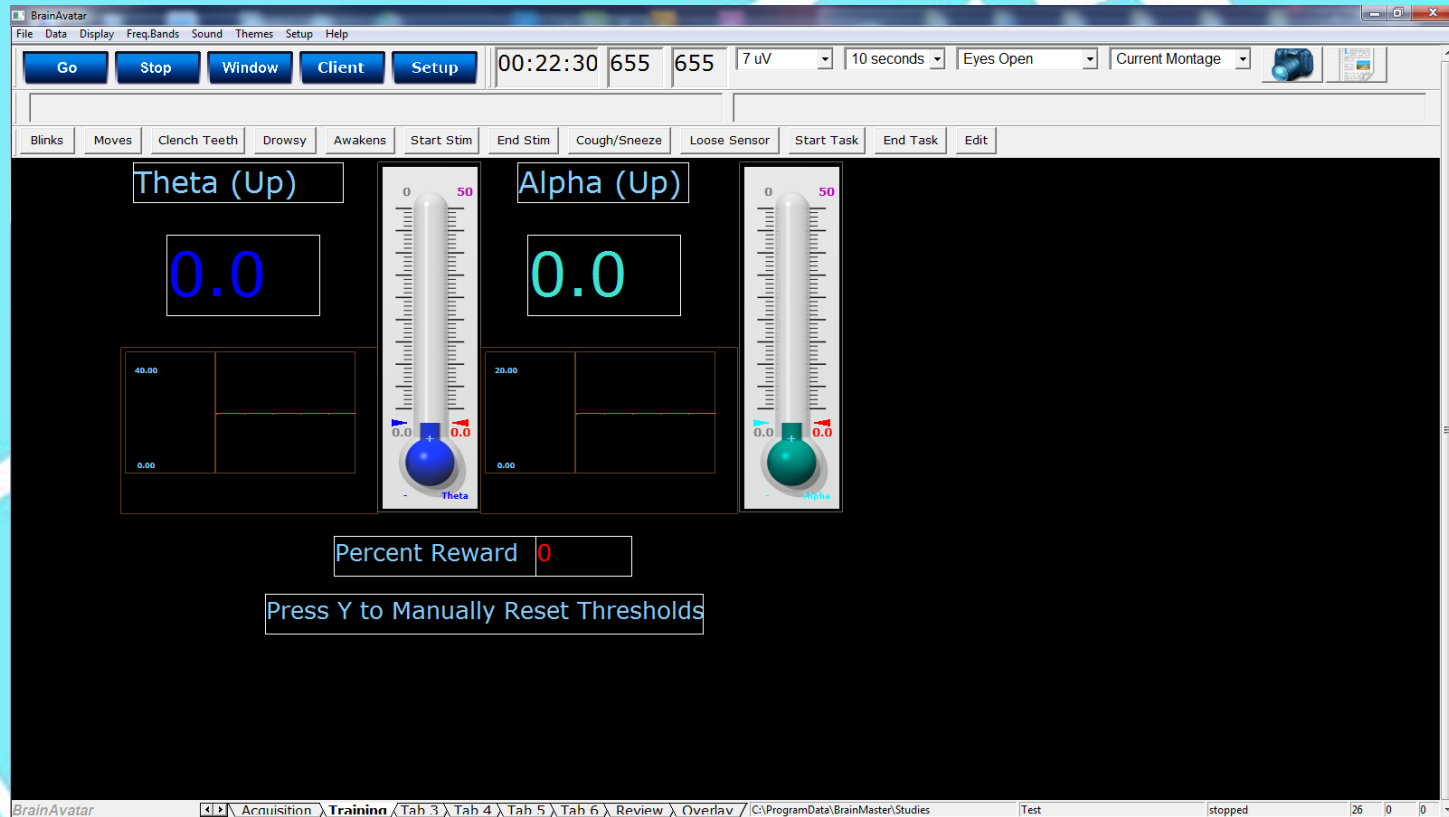


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Level 2

The Protocol is now ready to run with the revisions made.



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