

Power Point Manual

Get On The
BUS



BrainMaster
Universe
Simplified



“Alert”
level 4

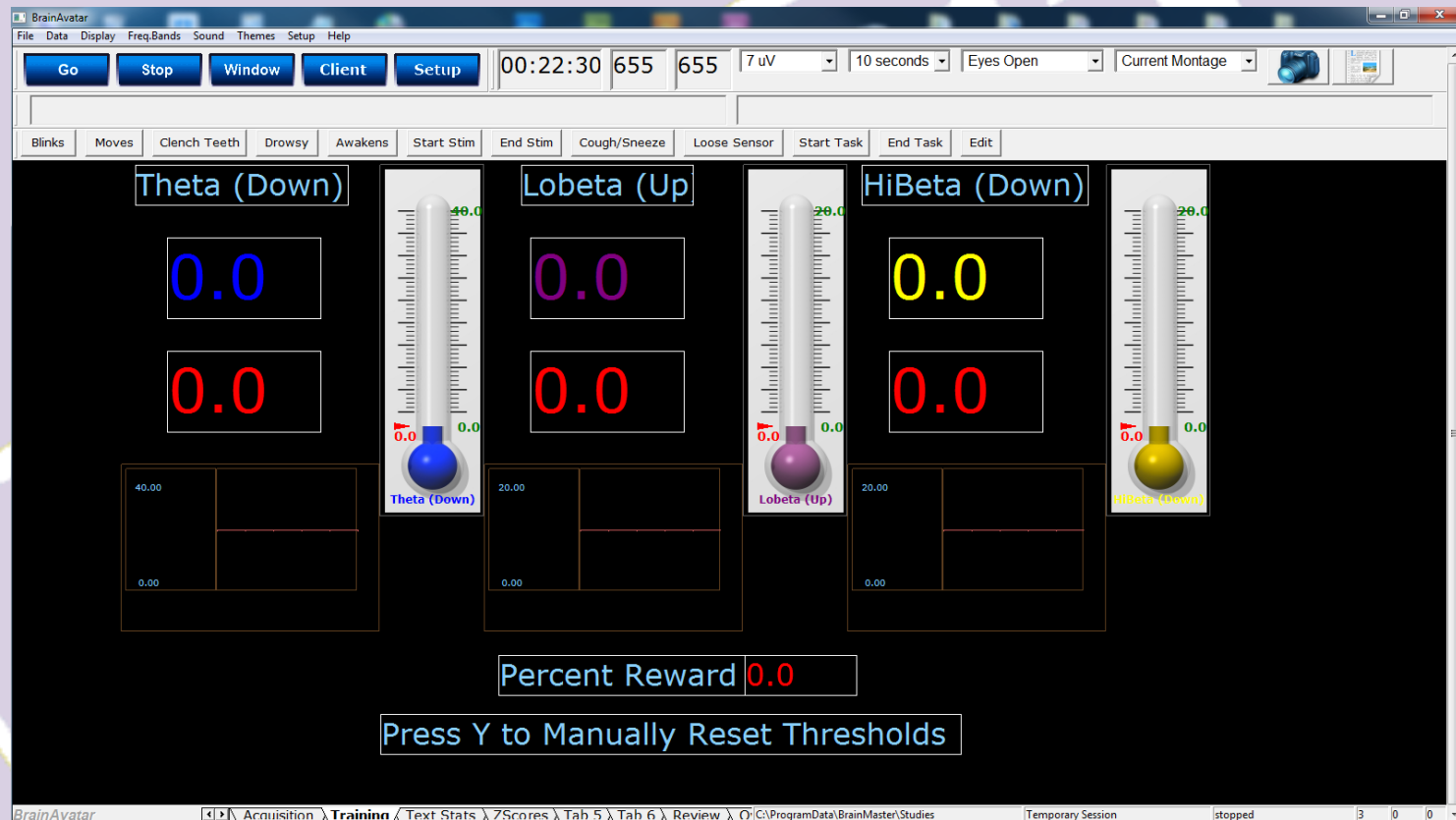
Settings Levels

- In Level 4 Brainmaster Technologies empowers you to be able to customize the protocol to best fit the client's and practitioner's unique needs.
- As an example, In this module you will learn to customize the Alert training screen.

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.

Concept

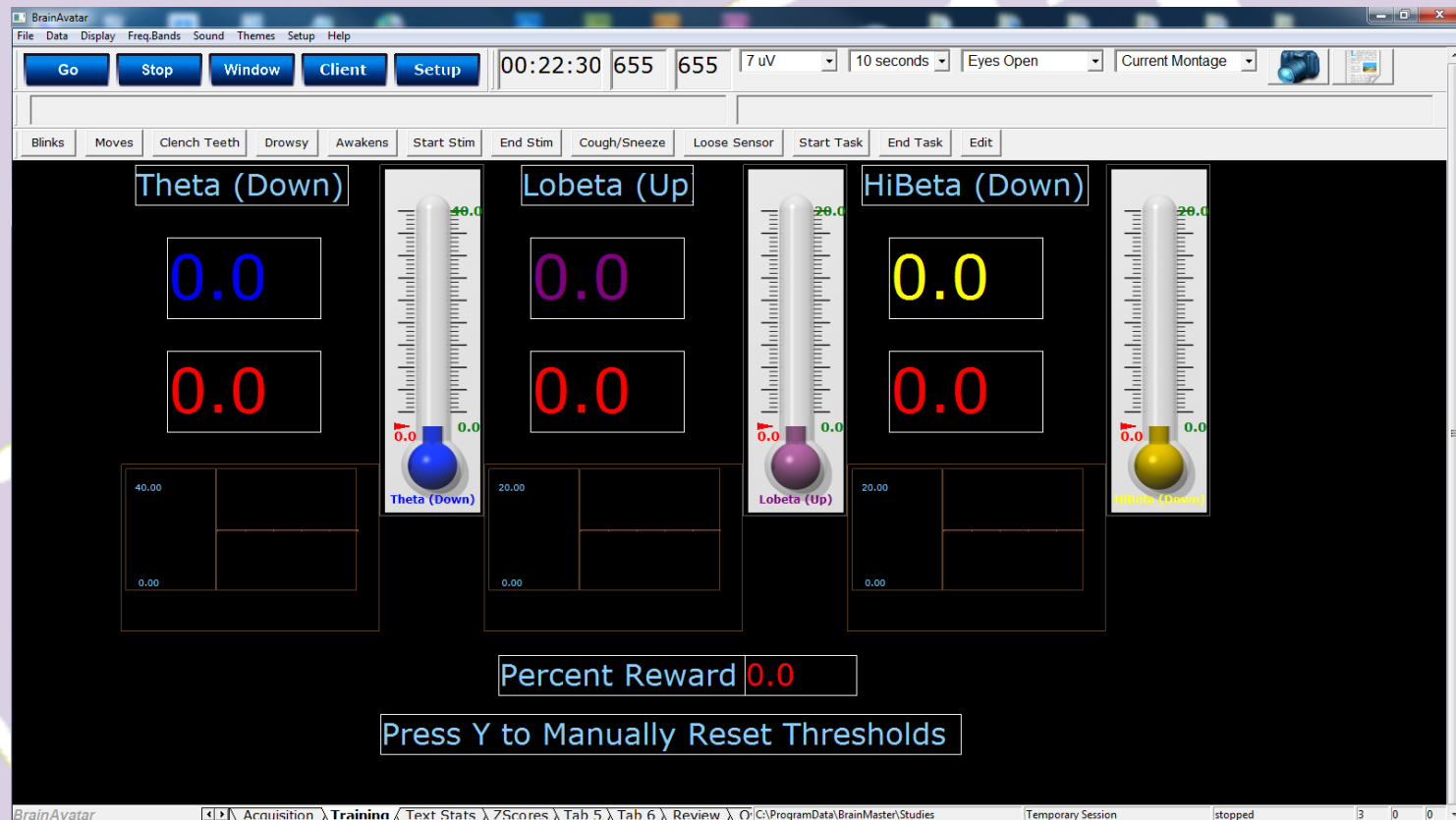
- In our previous Alert modules we have been working with a Training Screen (Tab) that appears below.



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Concept

- Perhaps we would prefer it to show the reward band on the left side and the two inhibits together while displaying a single Wide Trend Event Graph showing all the activity. An example of the final product follows.



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ALERT - MODIFIED



- The final product.

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ALERT

Level 4

Let's Begin

- Make Sure the Atlantis Amplifier is plugged in.

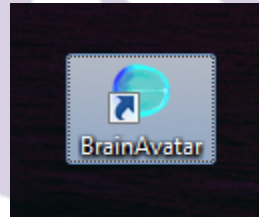


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ALERT

Level 4

- Open BrainAvatar by double-clicking the BrainAvatar Icon.

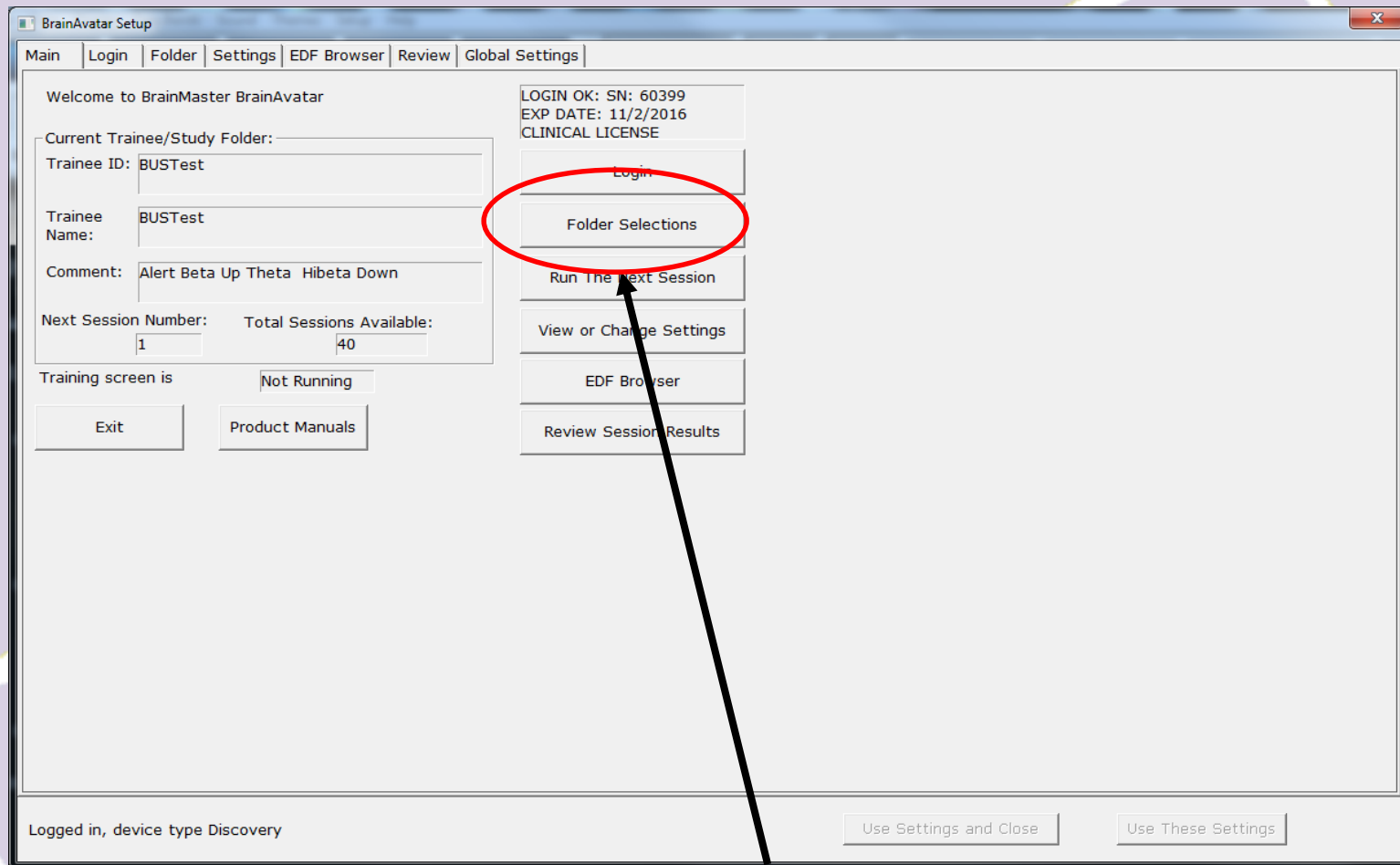


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- The Select Folder Screen will appear.
- By now you should know how to either create a new client folder or recall an existing client folder.
- For the purposes of this exercise let's open and utilize the "BUSTest" Folder which may already be resident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

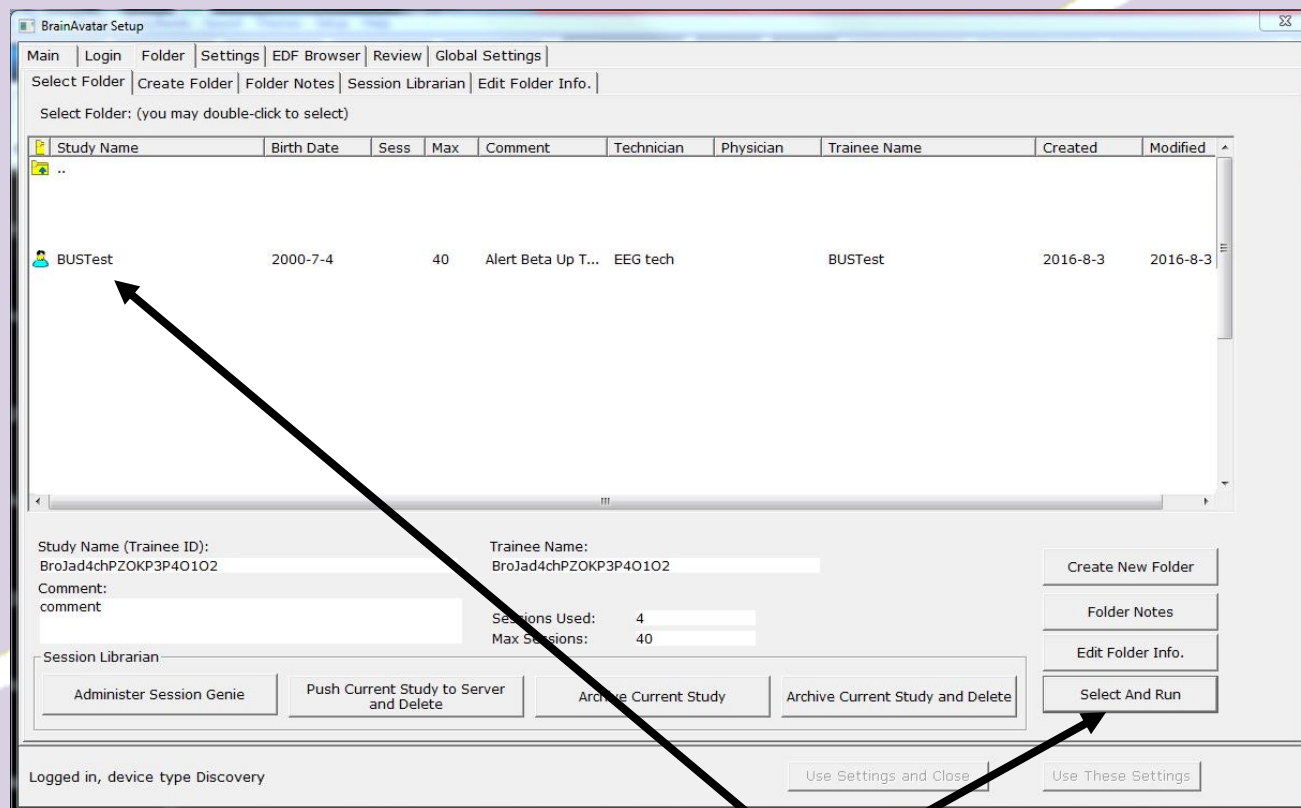
Create New Folder | Folder Notes | Edit Folder Info. | Select And Run

Logged in, device type Discovery

Use Settings and Close | Use These Settings

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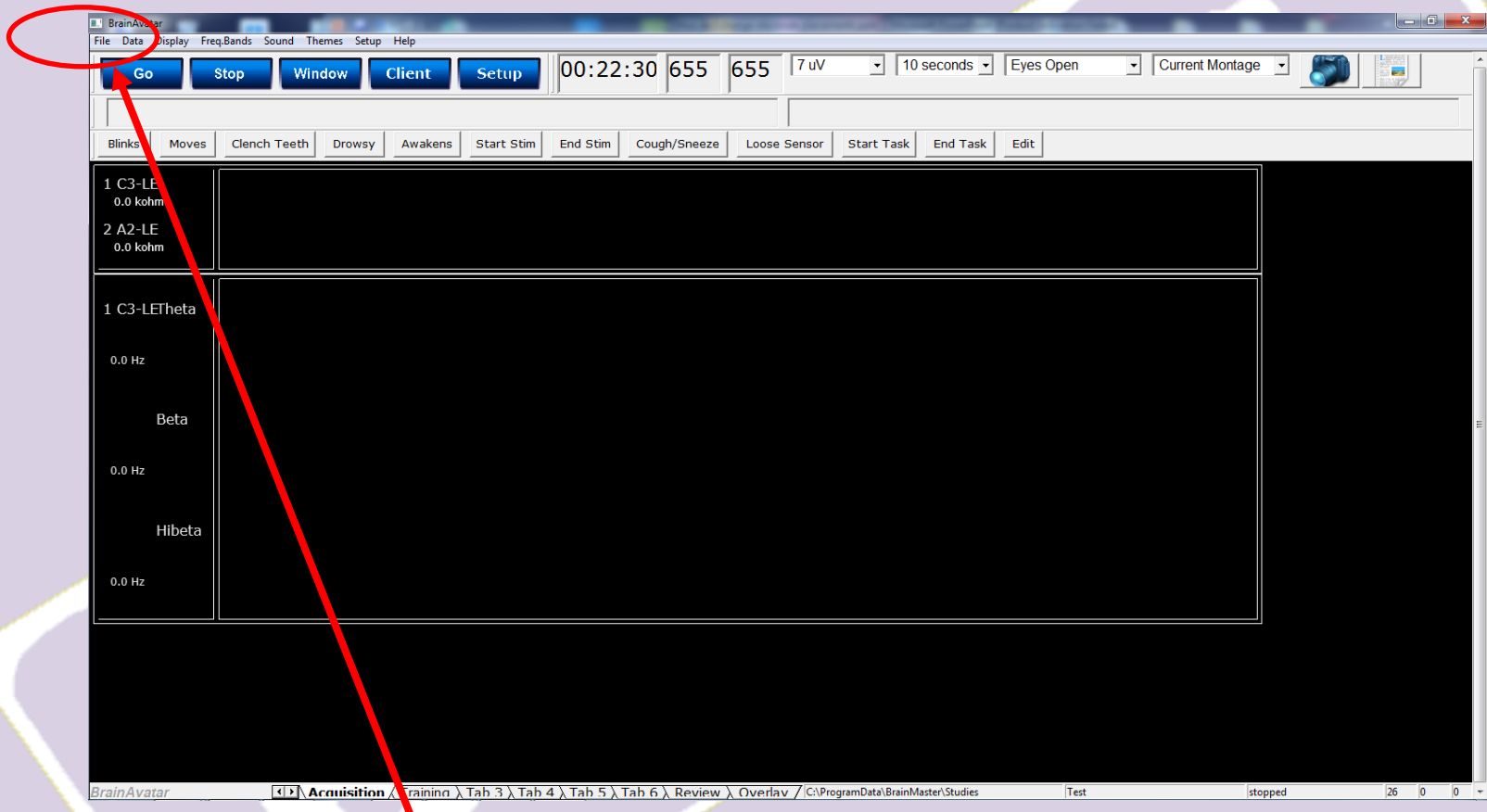
- The Select Folder Screen will appear.



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

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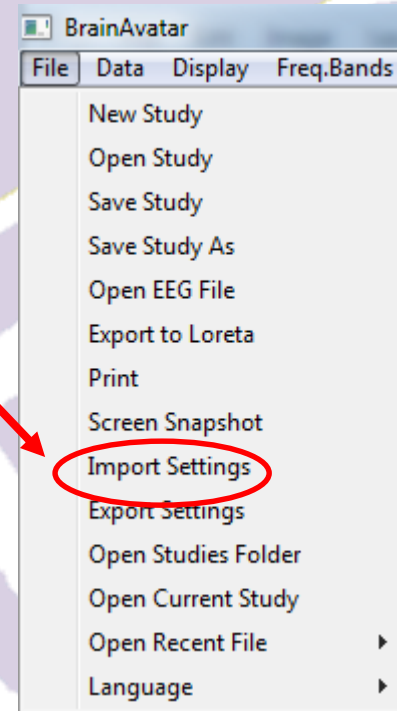
- The BrainAvatar Acquisition Screen is illuminated. Let's load the Setting File created in the last lesson.




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

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- Next select “Import Settings”.



- Scroll to find the Alert Level 3 File from a previous exercise and double click it.

Name	Date modified	Type	Size
 0203004AlertAssignDiffFreqs.bdb2	9/8/2016 3:23 PM	BDB2 File	159 KB

- The Alert Level 3 setting is imported into the Client's Study and is now ready for modification.

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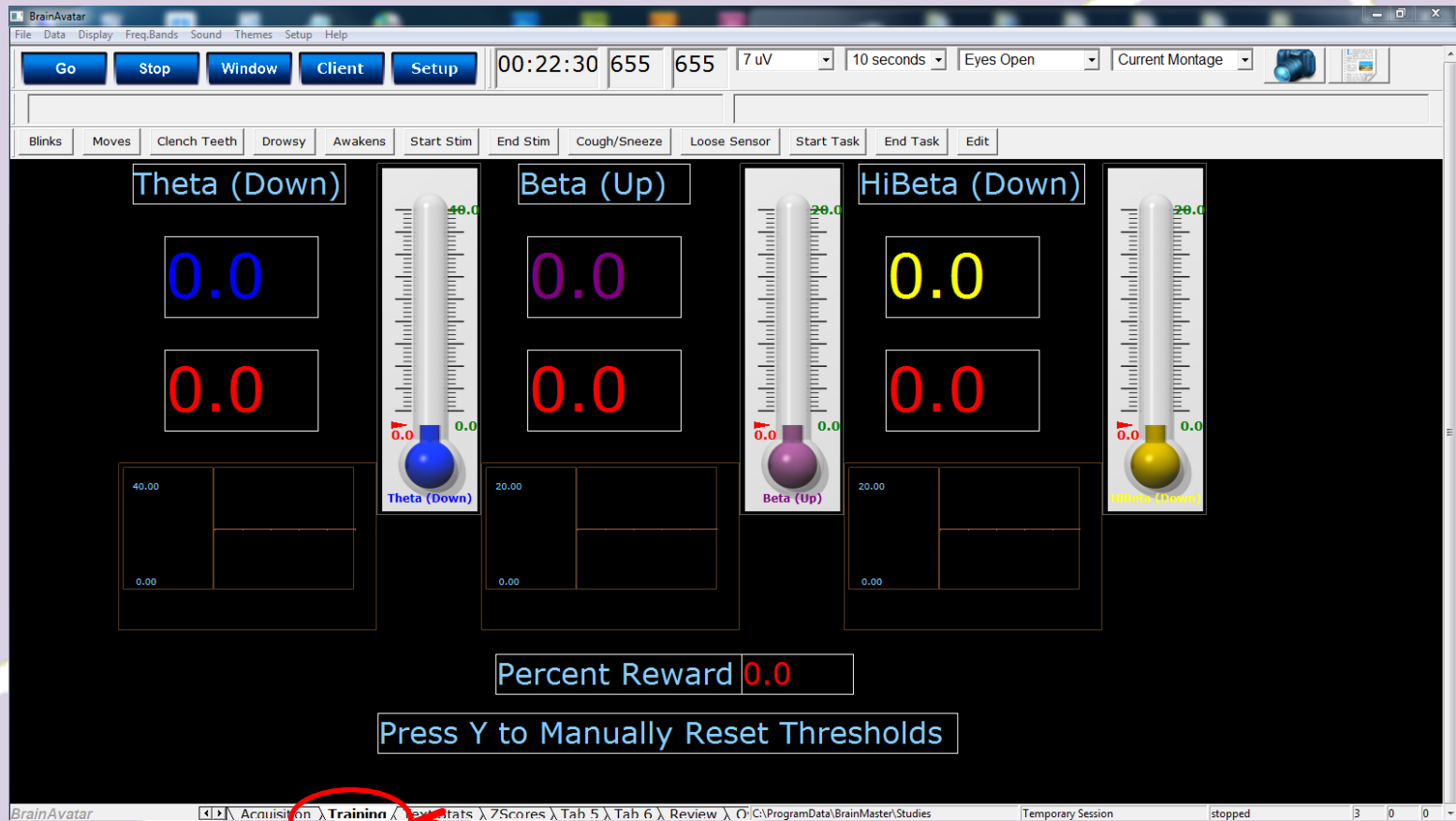
Alert

Level 4

- As discussed, we would like the reward objects (Beta) to be on the left of the screen, and the inhibit objects (Theta and Hibeta) to be to the right of the reward bands.
- The first step in accomplishing this task is to move the beta band objects to the left and the theta band objects to the center... in other words to simply have these objects exchange positions. We may do this easily by swapping the beta coordinates with the theta coordinates using the Panel Wizard.

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ALERT



- Go to the “Training” tab and Right-Click the “Training Tab” to call up the Panel Wizard.

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ALERT

Theta

Beta

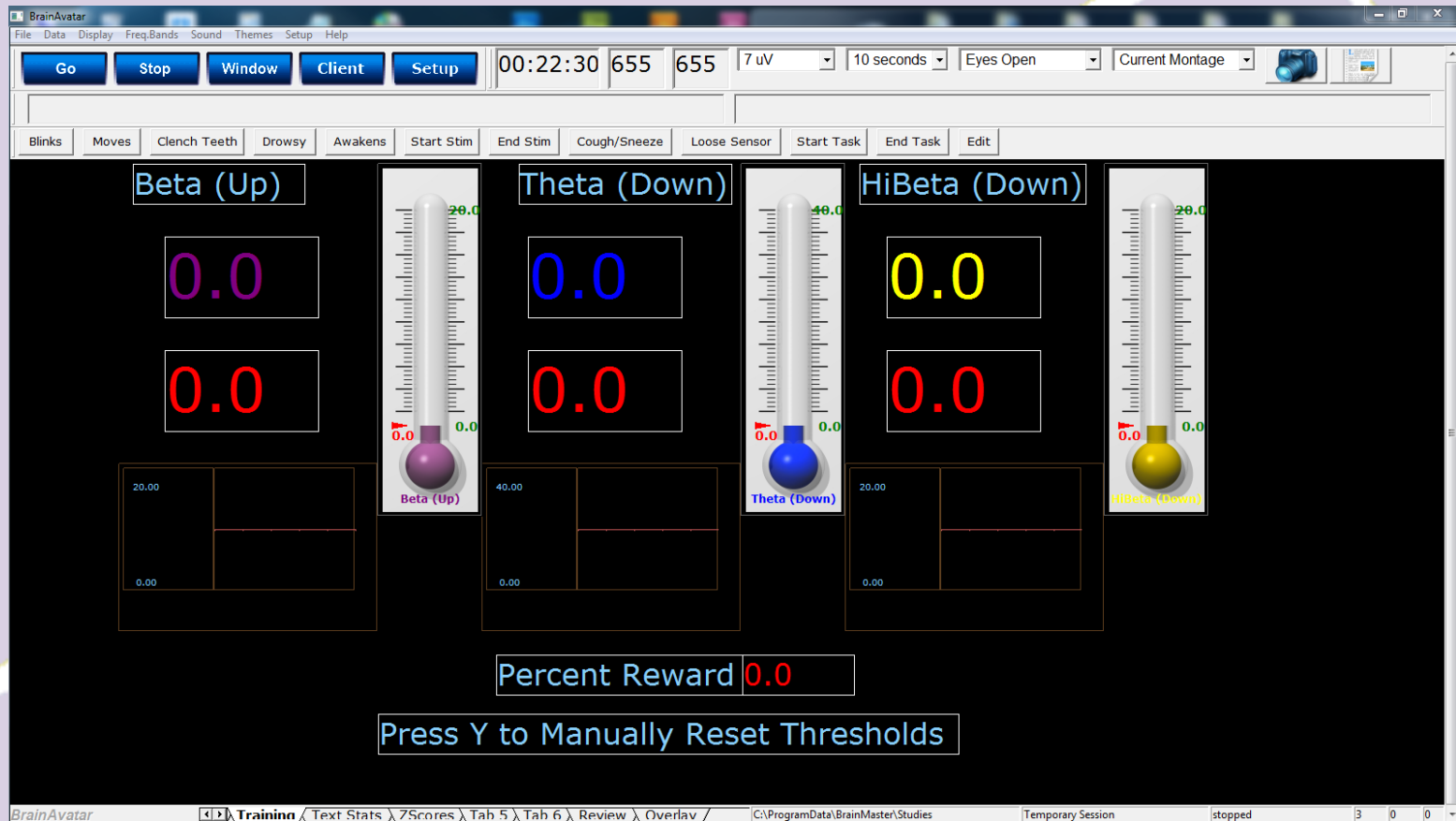
No	Type	X	Y	W	H	Del	Menu
1	Wide Trends (events)	115	330	285	185	Delete	Menu
2	Thermometers Conto	400	0	115	388	Delete	Menu
3	Text Displays/Event 1	130	0	245	55	Delete	Menu
4	Text Displays/Event 1	165	80	180	100	Delete	Menu
5	Text Displays/Event 1	555	0	200	55	Delete	Menu
6	Text Displays/Event 1	565	80	180	100	Delete	Menu
7	Wide Trends (events)	515	330	285	185	Delete	Menu
8	Thermometers Conto	800	0	115	388	Delete	Menu
9	Text Displays/Event 1	930	0	260	55	Delete	Menu
10	Text Displays/Event 1	960	80	180	100	Delete	Menu
11	Wide Trends (events)	915	330	285	185	Delete	Menu
12	Thermometers Conto	1200	0	115	388	Delete	Menu
13	Text Displays/Event 1	530	540	405	55	Delete	Menu
14	Text Displays/Event 1	400	605	650	55	Delete	Menu
15	Text Displays/Event 1	165	205	180	100	Delete	Menu
16	Text Displays/Event 1	565	205	180	100	Delete	Menu
17	Text Displays/Event 1	960	205	180	100	Delete	Menu

No	Type	X	Y	W	H	Del	Menu
1	Wide Trends (events)	115	330	285	185	Delete	Menu
2	Thermometers Conto	400	0	115	388	Delete	Menu
3	Text Displays/Event 1	130	0	245	55	Delete	Menu
4	Text Displays/Event 1	165	80	180	100	Delete	Menu
5	Text Displays/Event 1	555	0	200	55	Delete	Menu
6	Text Displays/Event 1	565	80	180	100	Delete	Menu
7	Wide Trends (events)	515	330	285	185	Delete	Menu
8	Thermometers Conto	800	0	115	388	Delete	Menu
9	Text Displays/Event 1	930	0	260	55	Delete	Menu
10	Text Displays/Event 1	960	80	180	100	Delete	Menu
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14	Text Displays/Event 1	400	605	650	55	Delete	Menu
15	Text Displays/Event 1	165	205	180	100	Delete	Menu
16	Text Displays/Event 1	565	205	180	100	Delete	Menu
17	Text Displays/Event 1	960	205	180	100	Delete	Menu

- Swap the Theta Coordinates with the corresponding Beta Coordinates so these objects will exchange places on the screen. Click “Apply” and “OK” to save changes.

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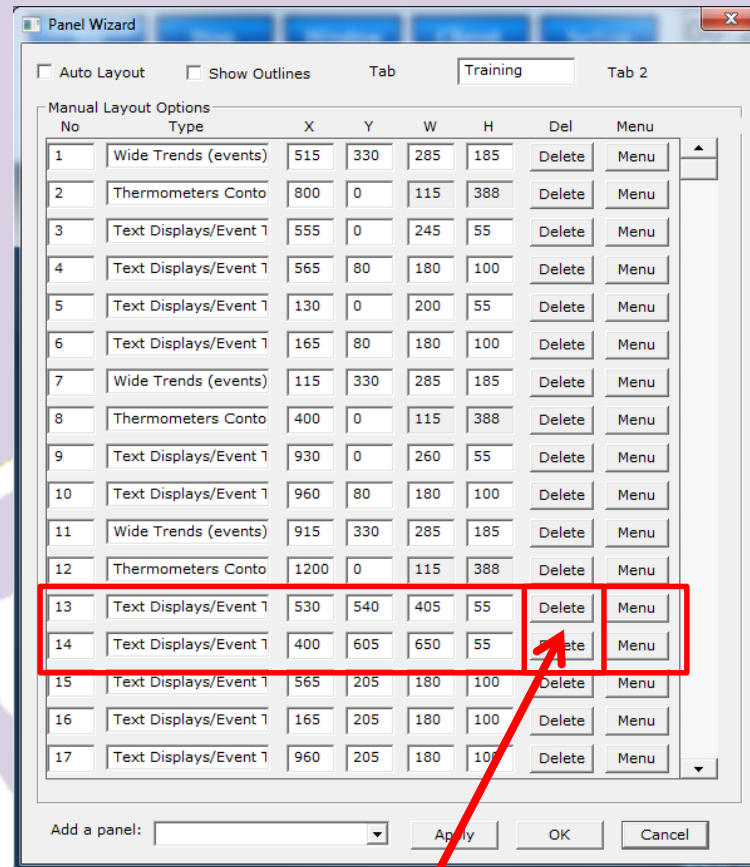
ALERT



- Your screen should appear as above with the Beta Objects and the Theta Objects having switched places. Our next step will be to delete the “Percent Reward” and “Press Y to Manually Reset Threshold” Objects to create more room on our screen. Again, right-click the Training Tab to open the Panel Wizard.

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ALERT



- It is very simple to delete an object. Simply locate the object and click the “Delete” button. In this case the two objects we want deleted are marked by the red box. Tap “Apply” and “OK” to save the changes.

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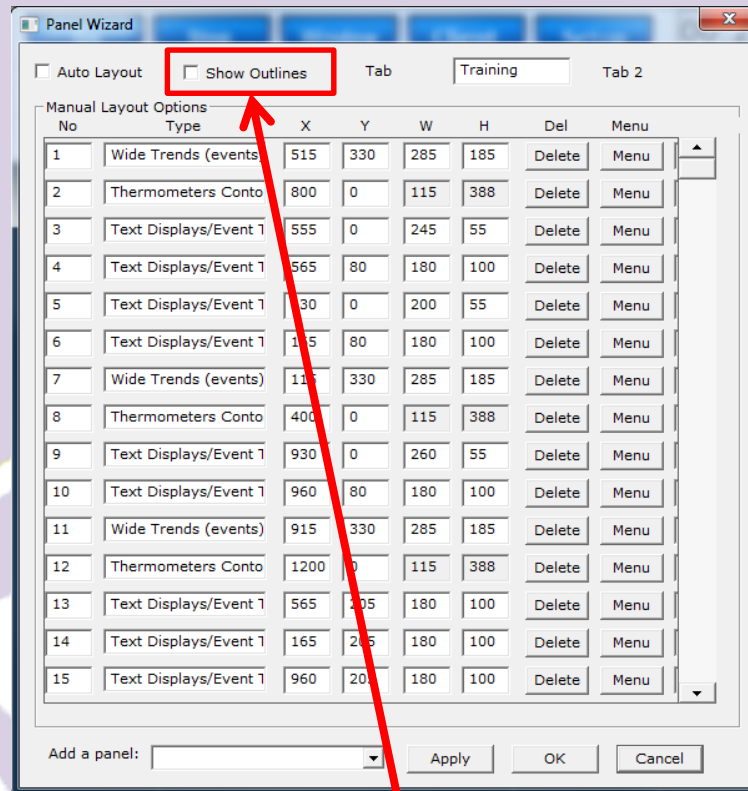
ALERT



- Your screen should appear as above with the “Percent Reward” and “Press Y to Manually Reset Threshold” Objects removed. Next , we will stack all of the Wide Trend Event Graphs on top of each other so they become one graph. Again, right-click the Training Tab to open the Panel Wizard.

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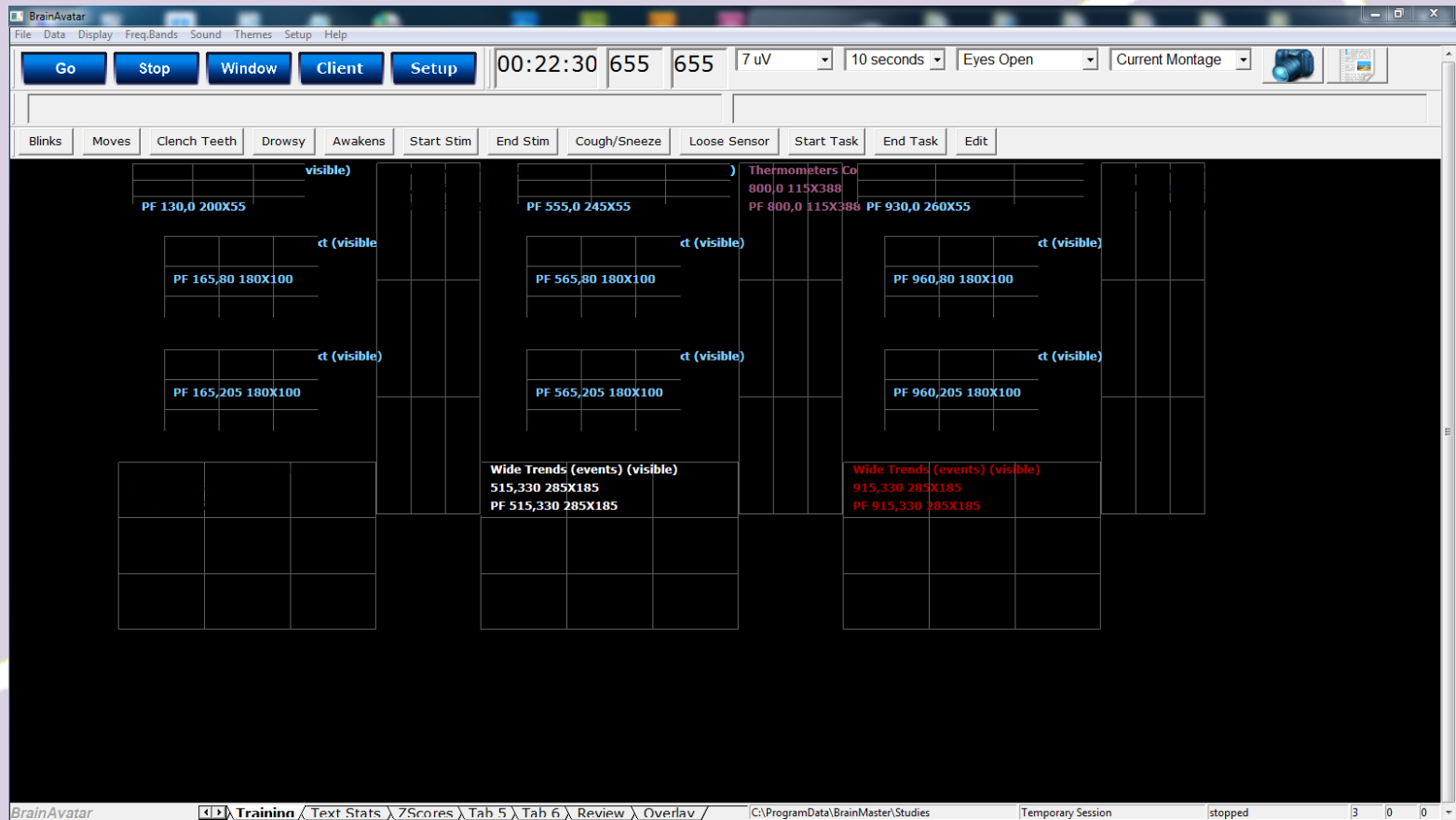
ALERT



- It is now time to learn to use the “Show Outlines” Function. Click the “Show Outlines” checkbox.

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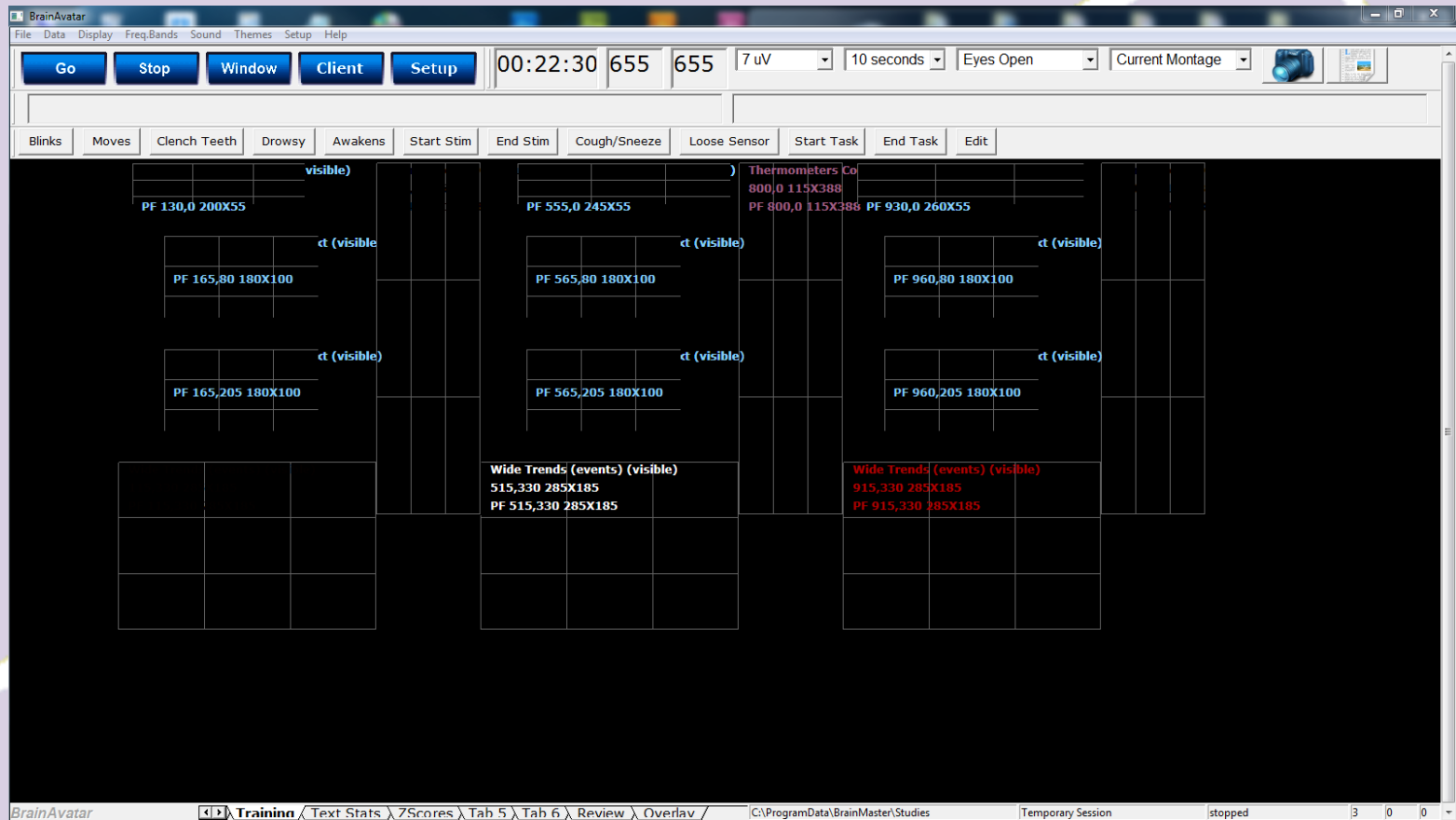
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- Notice that all of the objects on the screen have been turned to wireframes with descriptions and coordinates attached. Once turned to wireframes they may be moved into position with the mouse.

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ALERT

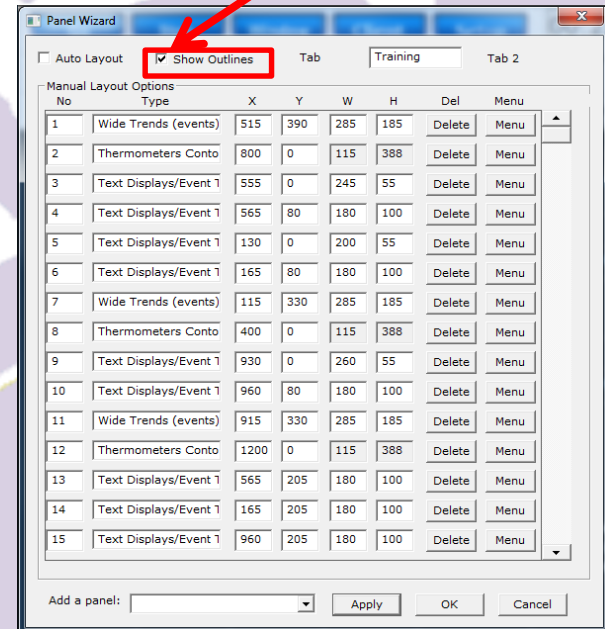
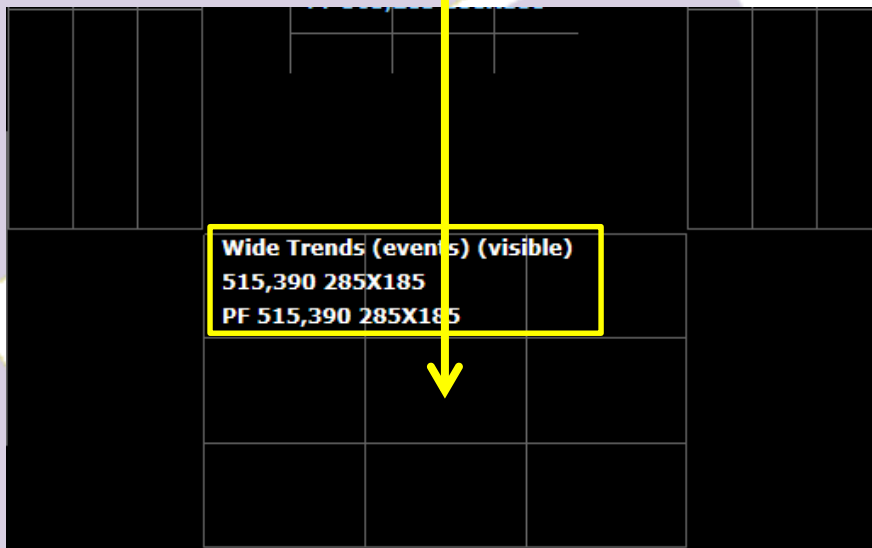
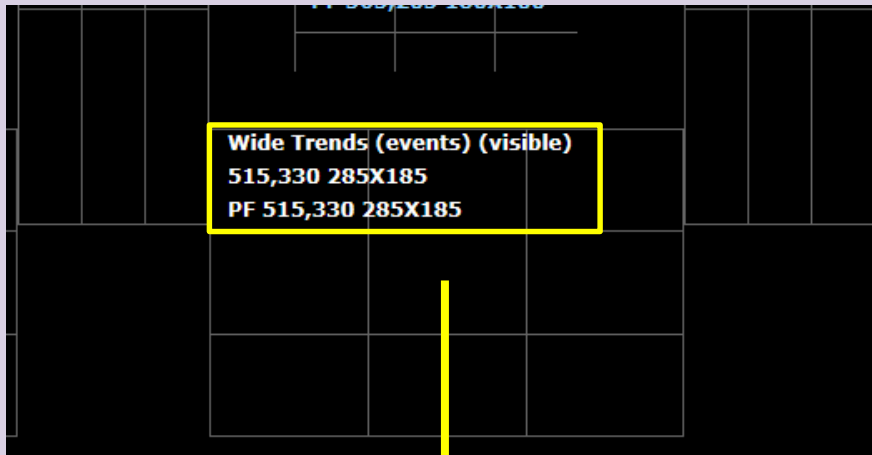


- We may move the center Wide Trend Event Graph by placing the mouse in the center of the 9 blocks and while holding the left mouse button down, sliding the wireframe to a new position. Let's try sliding it down so the top of the graph is even with the thermometers.

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- So you can see we have moved the Wide Event Trend Graph down from position 515, 330 to position 515, 390.
- To lock the object into place, click off the “Show Outlines” check box.



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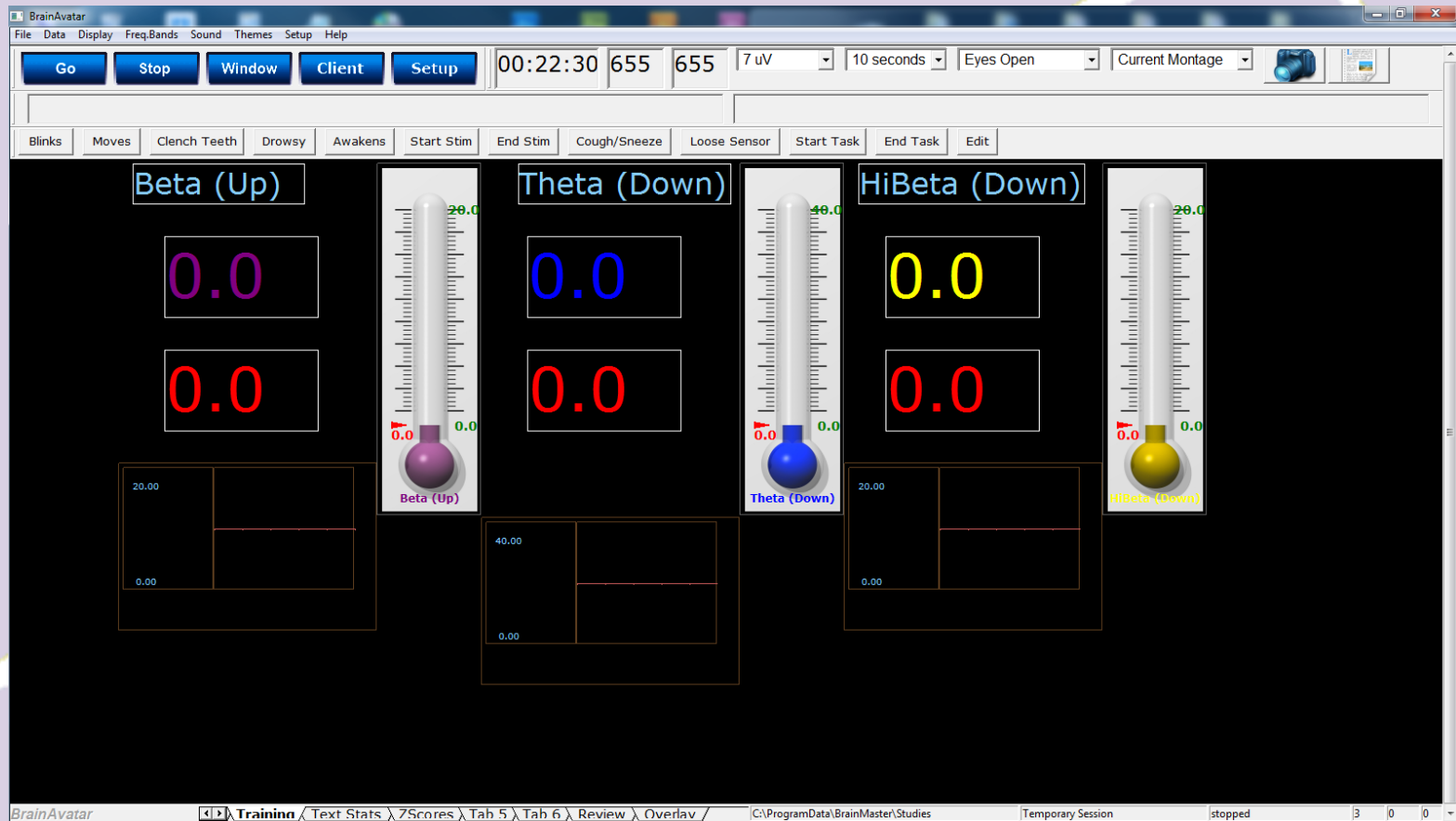
Alert

Level 4

- Note: If ever you have difficulty making the objects appear instead of the wireframes it is because you have the “Show Outlines” checkbox clicked “On”. To correct the problem you may have to click on and off this check box until the objects themselves appear.

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ALERT

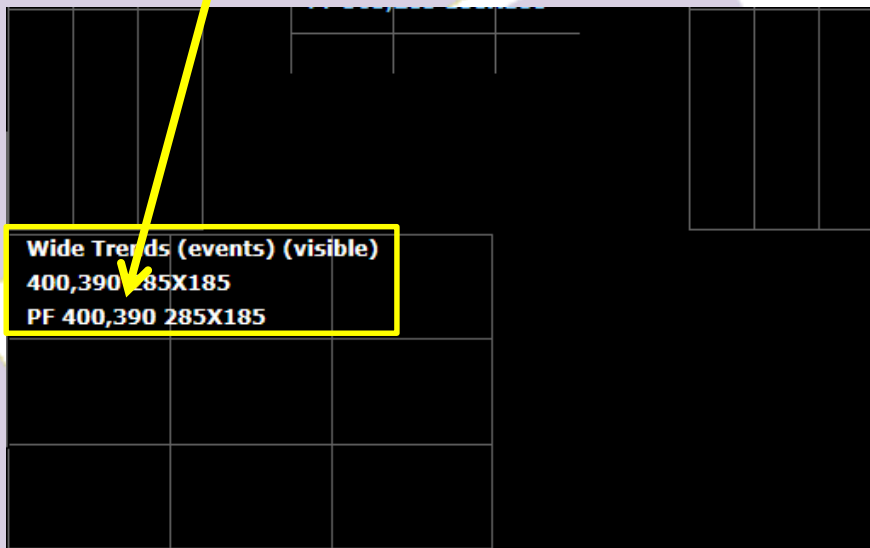
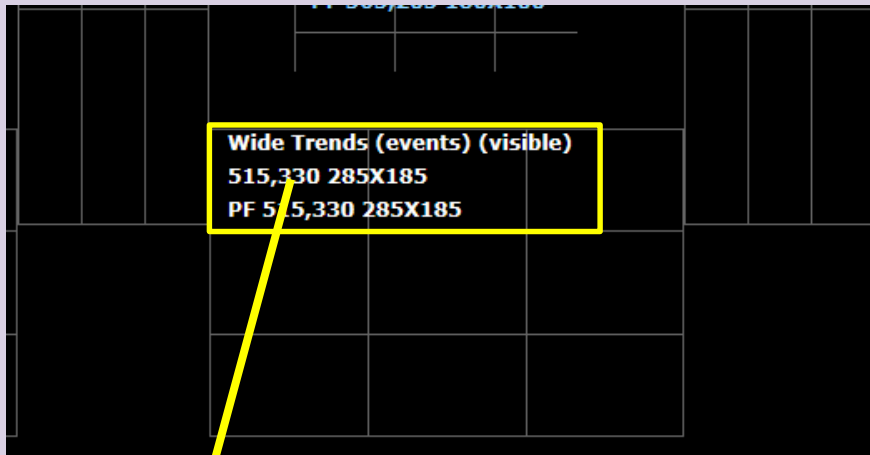


- Your Training Screen should now look like this with the Theta Down Wide Trend Event Graph moved slightly lower. Next, let's use the show outlines function to increase the size of the Theta Wide Trend Event Graph. Right-Click the Training Tab to once again open the Panel Wizard and click the "Show Outlines" checkbox.

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ALERT

- By placing the mouse in the upper left corner of the grid, and holding the left mouse button down you can slide the grid so the top of the grid is even with the bottom of the lower left corner of the thermometer grid. See if the position you have moved it to matches the coordinates in the lower yellow rectangle.
- Next we shall place the mouse pointer in the lower right corner of the grid so we may increase the size of the entire object.



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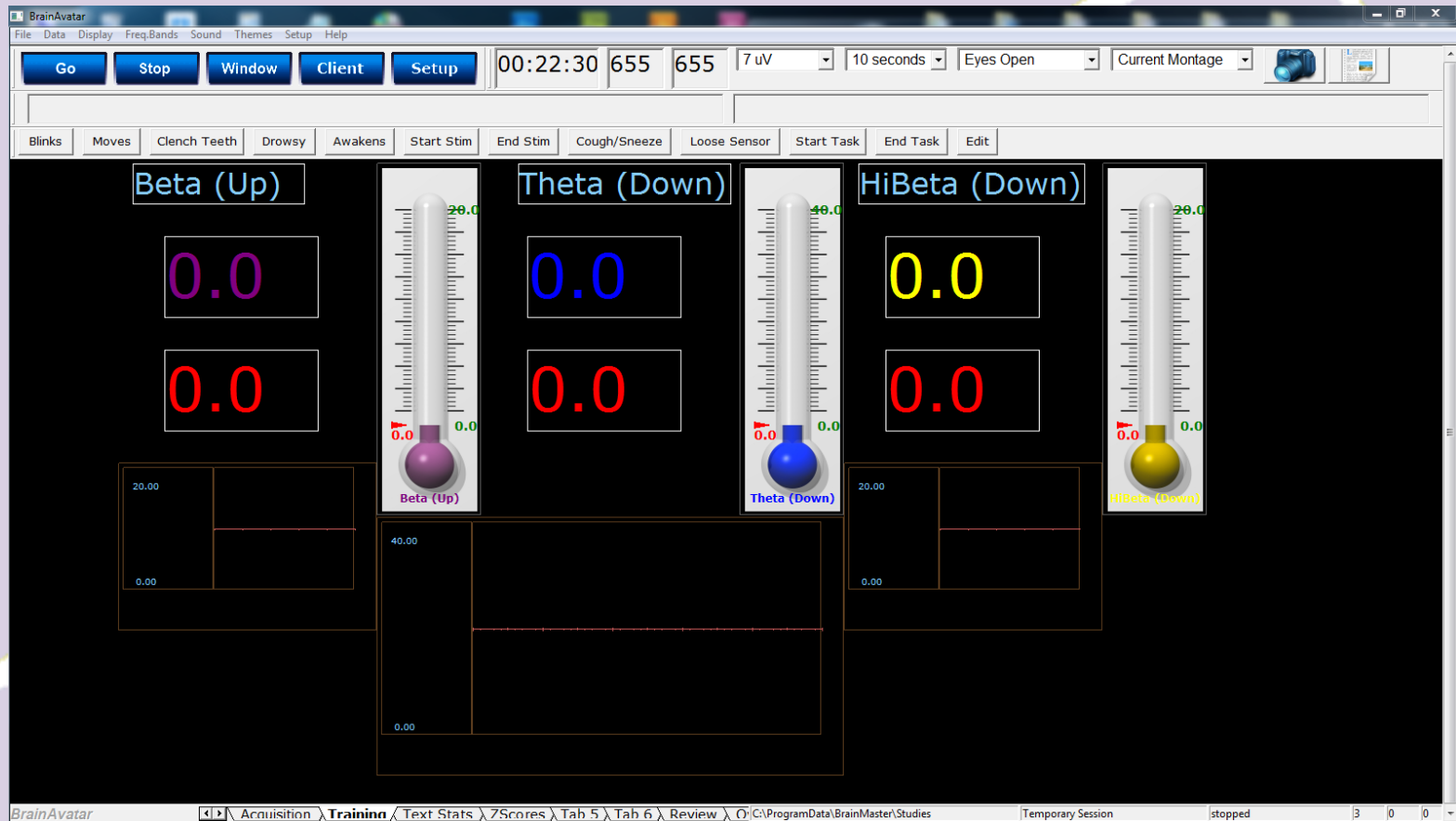
ALERT

- By holding the left mouse button down we drag the lower right corner out so the right upper corner of the grid becomes even with the lower extremity of the hibeta thermometer. See if the coordinates and the size of the enlarged grid matches the coordinates and size of the grid described in the lower yellow triangle. When complete, click off the "Show Outlines" checkbox. Then click "Apply" and "OK" to lock in the changes and make the objects appear.



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ALERT



- Your Training Screen should now look like this with the Theta Down Wide Trend Event Graph moved, enlarged and fitted between the two thermometers. Next we will engage on stacking the remaining two Wide Trend Event Graphs on top of the Theta Wide Trend Event Graph. However first we must match the scales on the graphs.

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ALERT



- As you can see the scales on the beta and hibeta Wide Trend Event Graphs are 20.00 while the theta graph displays 40.00. So, that the graphs plot correctly we should change all of the scales to 40.00. To do this we need to enter the Event Wizard. Tap ctrl-e to open the Event Wizard.

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ALERT

BrainAvatar Setup

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

Main | Read/Write | Channels | **Event 6** | Protocol | Display | Feedback | Session | Event Wizard | Acquisition | Montage | Z Scores | Session Wizard | Atlantis HW | Electrodes

1 | 2 | 3 | 4 | 5 | **6** | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16

This Event Is: ☒ Enabled ☐ Disabled Visibility: ☒ Visible ☐ Hidden

Event Condition:

IF: Channel 1: Theta Amplitude Constant: Damping

Check Equation $x=0;$

RULE: IS LESS THAN: Constant: Damping

Channel 1: Theta Threshold

Check Equation $x=0;$

Note: You must press "Check Equation" to check and save any changes made to

Event Result:

THEN: Do Nothing

☐ Obey Inhibits ("stops") ☐ Control MMP Player

Event Trend Graph:

Scale Factor: **40** Offset:

Event Summary:

Summary for Event 6: EVENT 6 IS CURRENTLY: ENABLED
IF: Channel 1 Theta Amplitude IS LESS THAN Channel 1 Theta Threshold
THEN: Do Nothing

Event Name: Theta (Down)

Sustained Reward Criterion: Condition must be met 0 milliseconds

Refractory Period: Time between rewards is: 0 milliseconds

MIDI Sound Properties:

Starting: 37 A (440.0) 1 to 88

Instrument: 41 Viola 128 choices

Playing: Sustained Percus. or

Modulation: Amplitude Ampl. or

Starting: Level: 80 0 to 128

Loudness Change Rate: 3 0 to 20

Note Change: 3 0 to 20

Musical Scale: Chromatic 15 choices

Musical: A C to B Flat

Play Note or: 1 Note 1 to 8 Notes

Play Note on Tab: On all tabs 1 to 16 or

Enable All Events Disable All Events Data Dictionary

Clear All Events Show All Events Print All Events

Copy Event Paste Event

Import Use Now OK

Logged in, device type Discovery

Use Settings and Close Use These Settings

- If you select Event 6 you may see the scale is set to 40 microvolts. This setting effects both the Wide Trend Event Graph and the Theta Thermometer. Since we want the scale to represent 40 microvolts there are no changes required here.

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ALERT

BrainAvatar Setup

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

Main | Read/Write | Channels | **7** | Protocol | Display | Feedback | Session | Event Wizard | Acquisition | Montage | Z Scores | Session Wizard | Atlantis HW | Electrodes

1 | 2 | 3 | 4 | 5 | 6 | **7** | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16

This Event Is: ☒ Enabled ☐ Disabled Visibility: ☒ Visible ☐ Hidden

Event Condition:

IF: Channel 1: Beta Amplitude Constant: Damping

Check Equation $x=0;$

RULE: IS GREATER THAN: Constant: Damping

Channel 1: Beta Threshold Constant: Damping

Check Equation $x=0;$

Note: You must press "Check Equation" to check and save any changes made to

Event Result:

THEN: Do Nothing

☐ Obey Inhibits ("stops") ☐ Control MMP Player

Event Trend Graph

Scale Factor: **20** Offset: 0

Event Summary:

Summary for Event 7:
IF: Channel 1 Beta Amplitude IS GREATER THAN Channel 1 Beta Threshold
THEN: Do Nothing

EVENT 7 IS CURRENTLY: ENABLED

Event Name: Beta (Up)

Sustained Reward Criterion: Condition must be met 0 milliseconds

Refractory Period: Time between rewards is: 0 milliseconds

MIDI Sound Properties:

Starting: 37 A (440.0) 1 to 88

Instrument: 41 Viola 128 choices

Playing: Sustained Percus. or

Modulation: Amplitude Ampl. or

Starting: Level: 80 0 to 128

Loudness Change Rate: 3 0 to 20

Note Change: 3 0 to 20

Musical Scale: Chromatic 15 choices

Musical: A C to B Flat

Play Note or: 1 Note 1 to 8 Notes

Play Note on Tab: On all tabs 1 to 16 or

Enable All Events Disable All Events Data Dictionary

Clear All Events Show All Events Print All Events

Copy Event Paste Event

Import Use Now OK

Logged in, device type Discovery

Use Settings and Close Use These Settings

- If you select Event 7 you may see the scale is set to 20 microvolts. This setting effects both the Wide Trend Event Graph and the Beta Thermometer. Since we want the scale to represent 40 microvolts we should change the 20 to 40.

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ALERT

The screenshot shows the 'BrainAvatar Setup' window with the 'Event Wizard' tab selected. Event 8 is highlighted in the event list. The configuration for Event 8 is as follows:

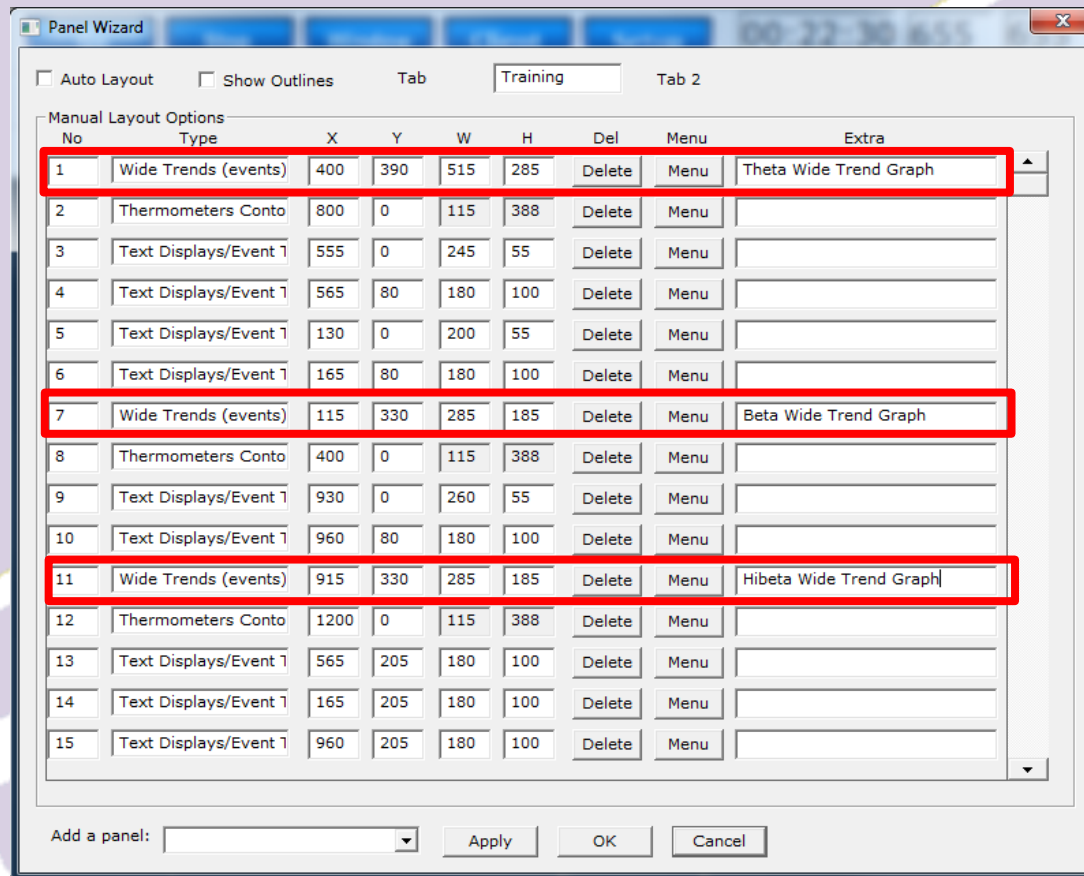
- This Event Is:** Enabled, Visible
- Event Condition:**
 - IF: Channel 1: Hibeta, Amplitude, Constant: 5, Damping: 5
 - RULE: IS LESS THAN
 - Channel 1: Hibeta, Threshold, Constant: 0, Damping: 0
- Event Result:** THEN: Do Nothing
- Event Trend Graph:** Scale Factor: 20, Offset: 0
- Event Summary:** Summary for Event 8: EVENT 8 IS CURRENTLY: ENABLED
IF: Channel 1 Hibeta Amplitude IS LESS THAN Channel 1 Hibeta Threshold
THEN: Do Nothing
- MIDI Sound Properties:**
 - Starting: 37 A (440.0), 1 to 88
 - Instrument: 41 Viola, 128 choices
 - Playing: Sustained, Percus. or
 - Modulation: Amplitude, Ampl. or
 - Starting: Level: 80, 0 to 128
 - Loudness Change Rate: 3, 0 to 20
 - Note Change: 3, 0 to 20
 - Musical Scale: Chromatic, 15 choices
 - Musical: A, C to B Flat
 - Play Note or: 1 Note, 1 to 8 Notes
 - Play Note on Tab: On all tabs, 1 to 16 or

Buttons at the bottom right: Enable All Events, Disable All Events, Data Dictionary, Clear All Events, Show All Events, Print All Events, Copy Event, Paste Event, Import, Use Now, OK, Use Settings and Close, Use These Settings.

- If you select Event 8 you may see the scale is set to 20 microvolts. This setting effects both the Wide Trend Event Graph and the Hibeta Thermometer. Since we want the scale to represent 40 microvolts we should change the 20 to 40. When finished click “Use Settings and Close” to save the changes.

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ALERT



- The coordinates and size of the Theta Wide Trend Graph is listed in row one. If we make all of the numbers in the Beta Wide Trend Graph and the Hibeta Wide Trend Graph match those in the Theta Wide Trend Graph, then all graphs will be sized and locations shifted to be centered on the Theta Wide Trend Event Graph.

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ALERT

Panel Wizard

☐ Auto Layout ☐ Show Outlines Tab Training Tab 2

Manual Layout Options

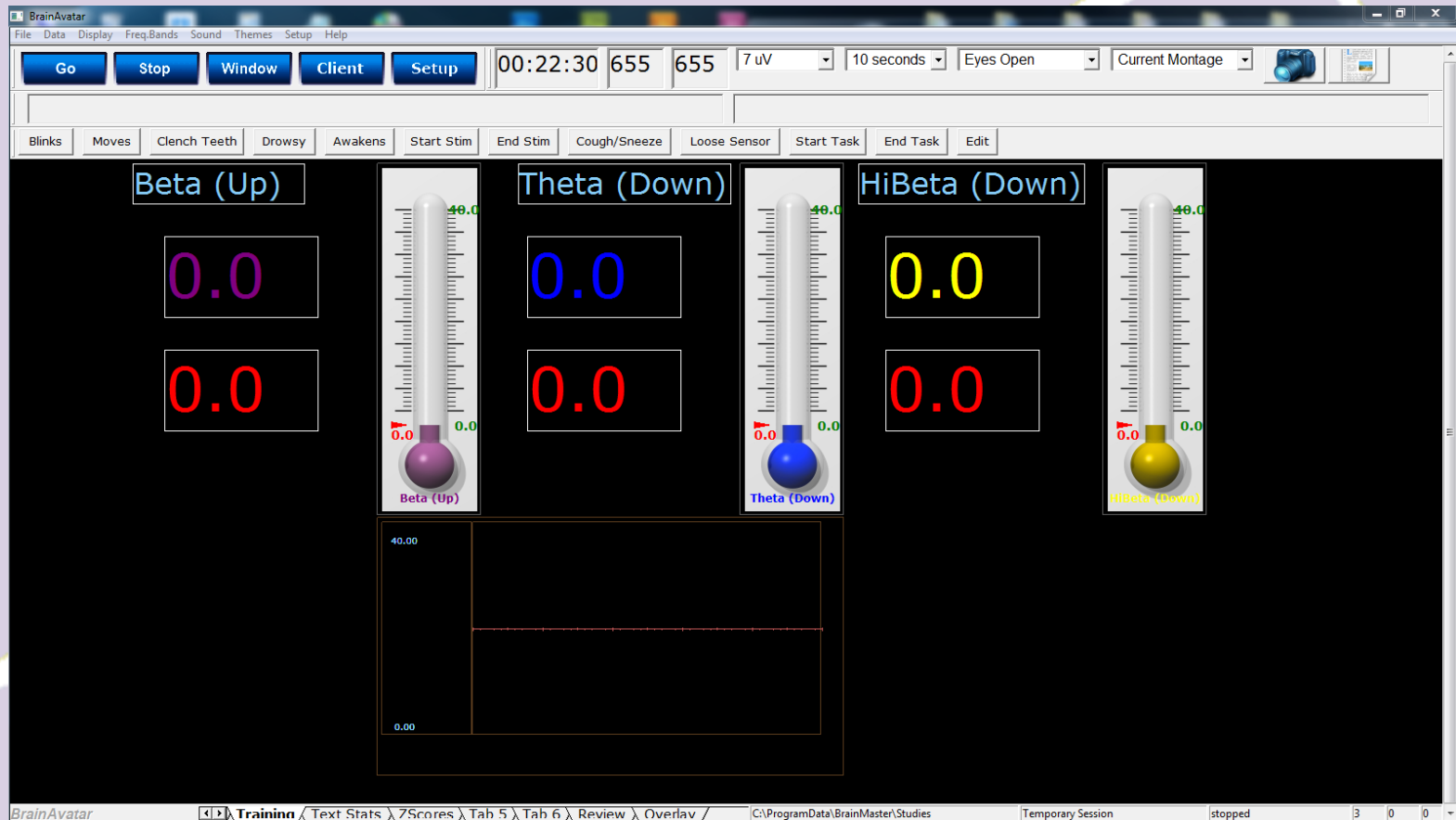
No	Type	X	Y	W	H	Del	Menu	Extra
1	Wide Trends (events)	400	390	515	285	Delete	Menu	Theta Wide Trend Graph
2	Thermometers Conto	800	0	115	388	Delete	Menu	
3	Text Displays/Event 1	555	0	245	55	Delete	Menu	
4	Text Displays/Event 1	565	80	180	100	Delete	Menu	
5	Text Displays/Event 1	130	0	200	55	Delete	Menu	
6	Text Displays/Event 1	165	80	180	100	Delete	Menu	
7	Wide Trends (events)	400	390	515	285	Delete	Menu	Beta Wide Trend Graph
8	Thermometers Conto	400	0	115	388	Delete	Menu	
9	Text Displays/Event 1	930	0	260	55	Delete	Menu	
10	Text Displays/Event 1	960	80	180	100	Delete	Menu	
11	Wide Trends (events)	400	390	515	285	Delete	Menu	Hibeta Wide Trend Graph
12	Thermometers Conto	1200	0	115	388	Delete	Menu	
13	Text Displays/Event 1	565	205	180	100	Delete	Menu	
14	Text Displays/Event 1	165	205	180	100	Delete	Menu	
15	Text Displays/Event 1	960	205	180	100	Delete	Menu	

Add a panel:

- Your Panel Wizard entries should match those above. When complete click “Apply” and “OK” to close the Panel Wizard and save the changes.

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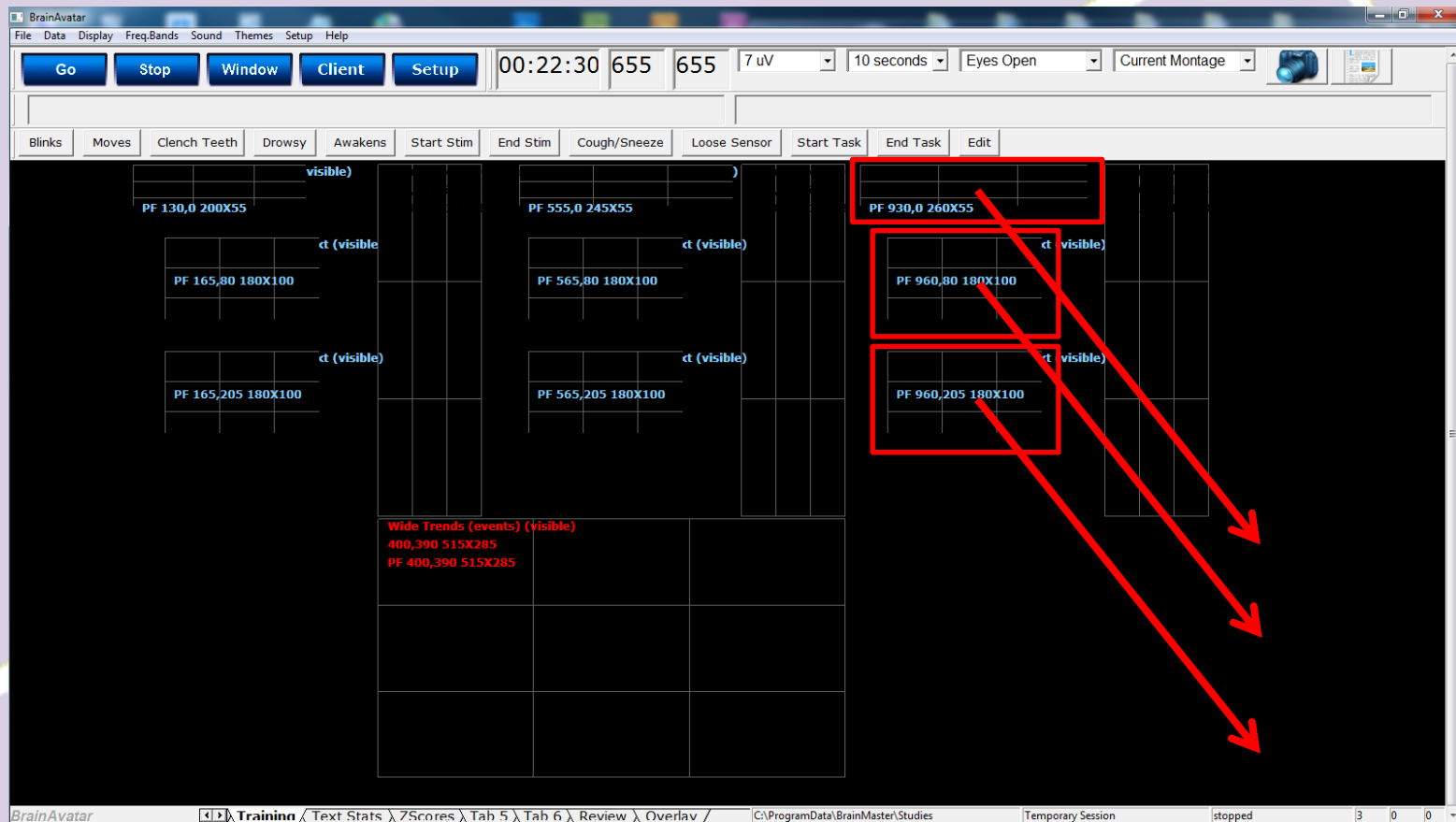
ALERT



- Your Training Screen should now look like this with all Wide Trend Event Graphs merged into a single graph with a scale of 40 microvolts. The last exercise involves moving the two thermometers together for ease of viewing. For this, again, we shall use the “Show Outlines” of the Panel Wizard. Right-Click the Training Tab to open the Panel Wizard and then click on the “Show Outlines” checkbox..

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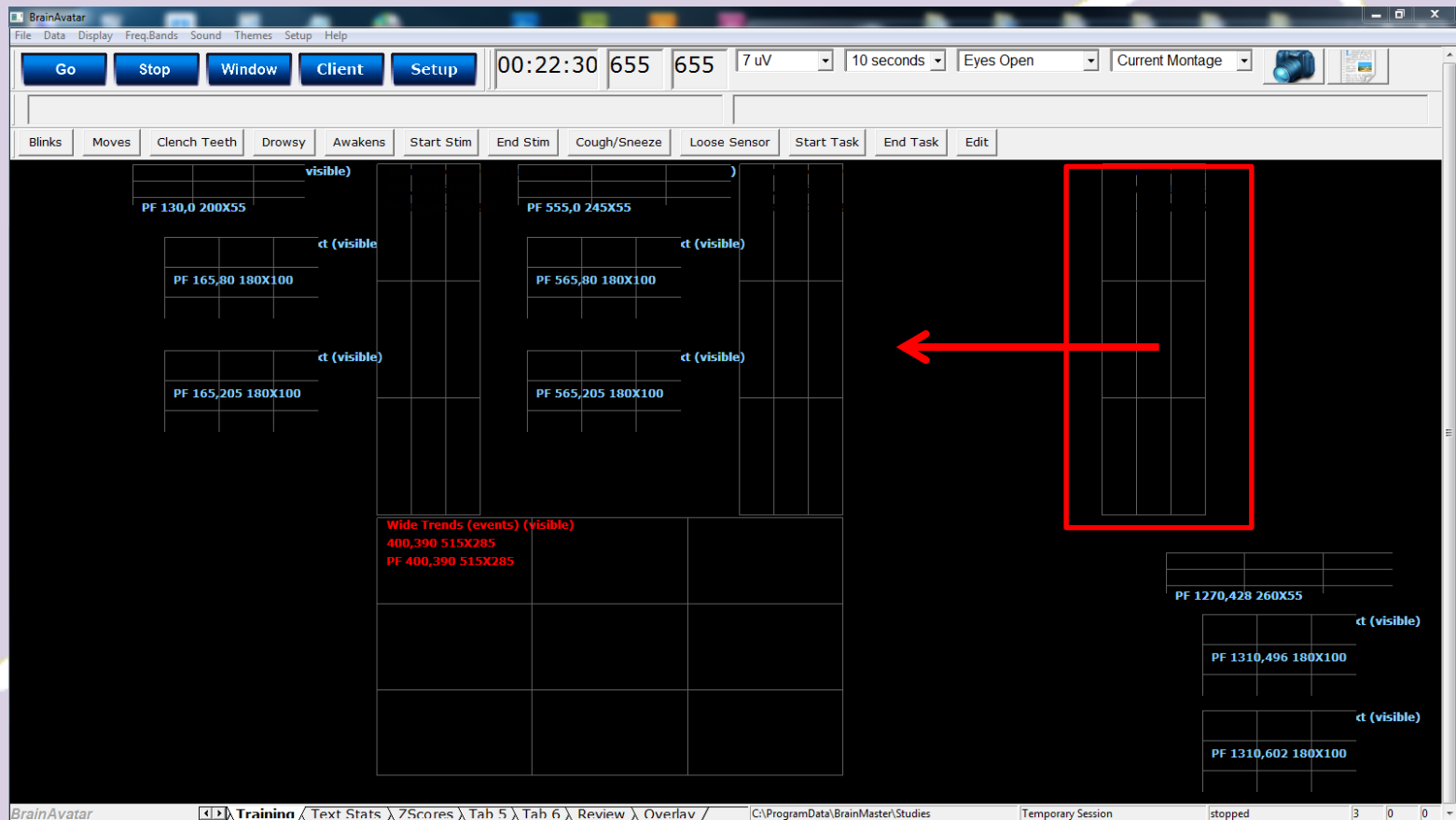
ALERT



- By placing the mouse pointer in the center box of the nine box grid and holding the left mouse button down slide the hibeta label, the hibeta meter and the hibeta percent under threshold meters out of the way.

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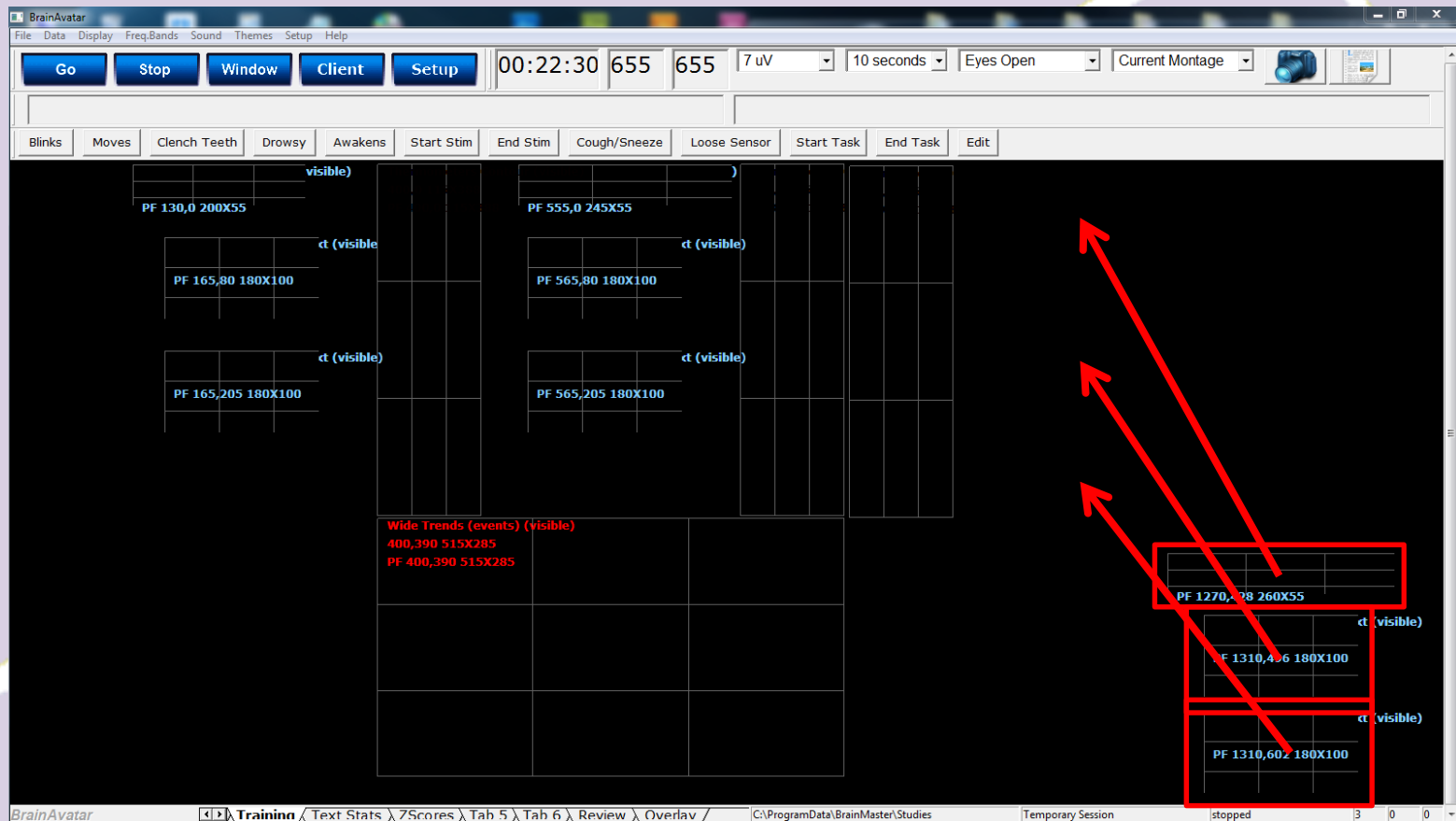
ALERT



- Next let's slide the hibeta thermometer flush up against the theta thermometer by placing the mouse pointer in the center of the 9 box grid and while holding the left mouse button down sliding the grid patterns.

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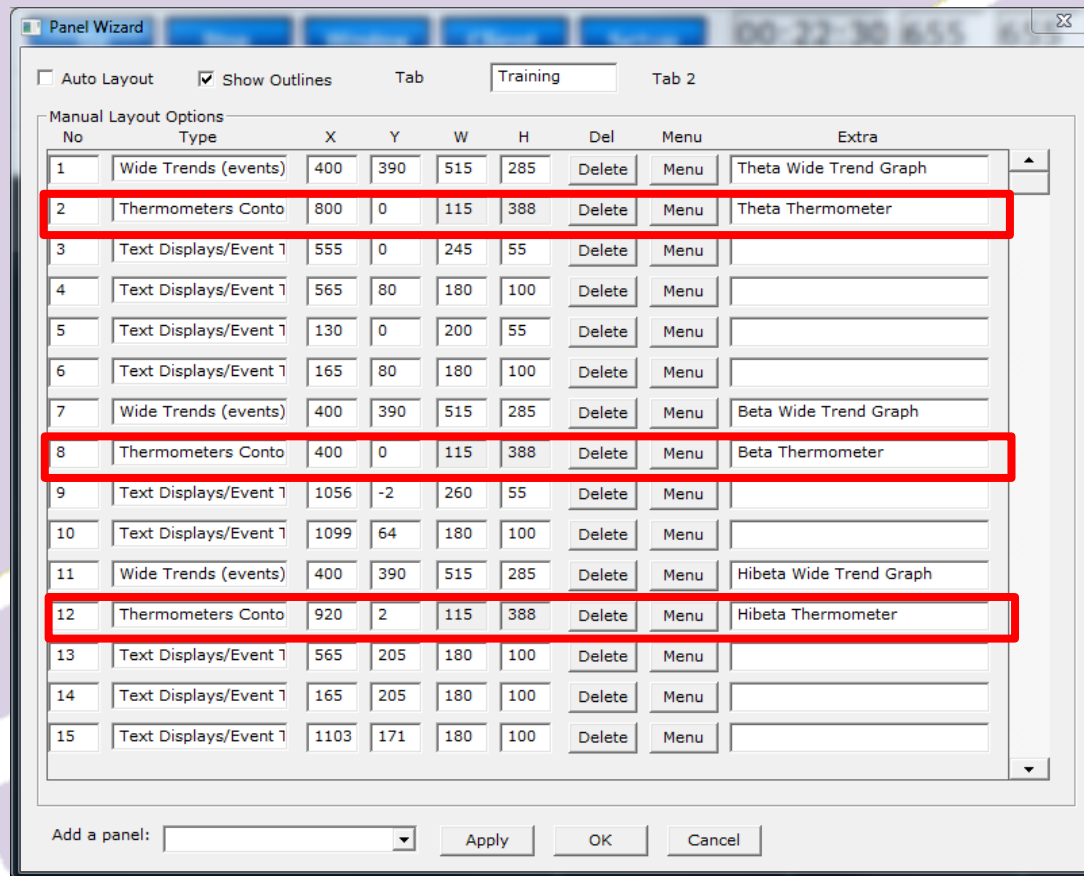
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- Now slide the first three grid patterns up next to the hibeta thermometer and place them in an aesthetically pleasing array. When finished call up the Panel Wizard by right-clicking the Training Tab.

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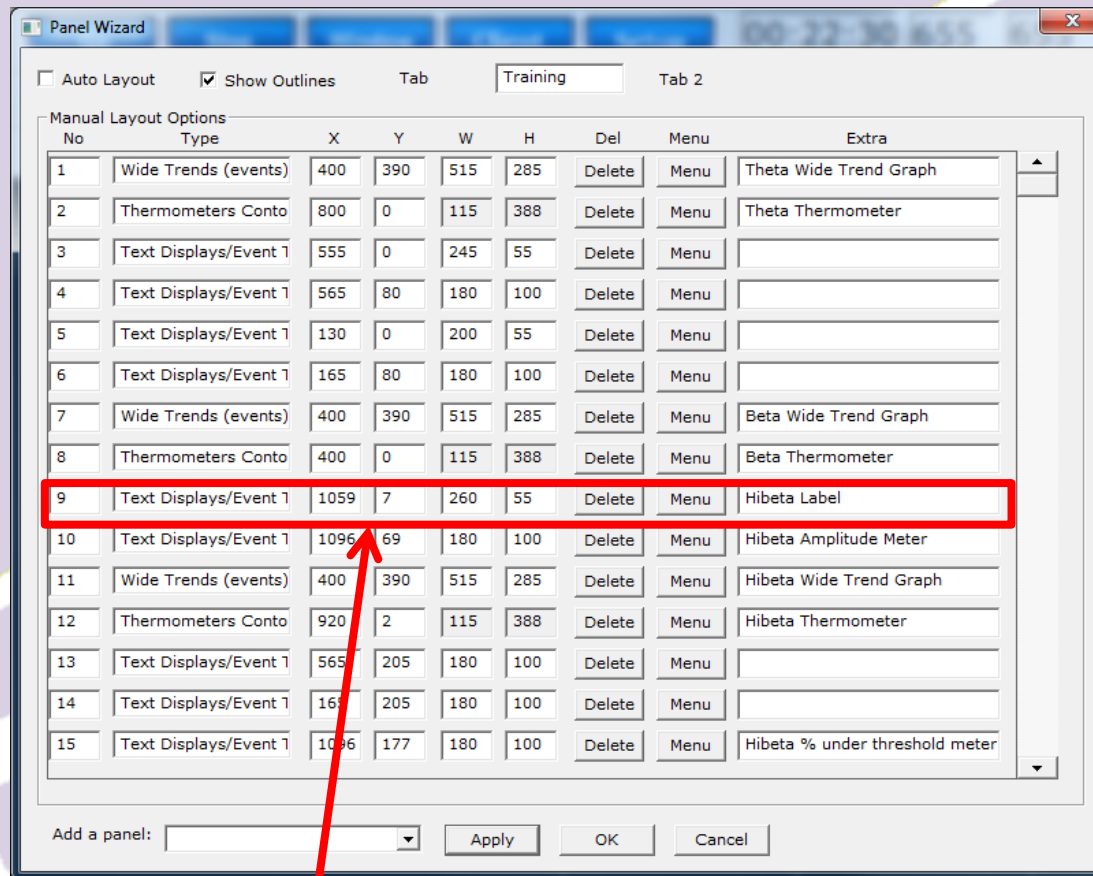
ALERT



- We may now do a little housekeeping. First let's look at the thermometers. First let's make sure the Y coordinates all match to 0, the top of the screen. In this example notice the theta and beta thermometer's y coordinates are 0 but the Hibeta thermometer y coordinate should be set to 0. Notice the thermometer sizes are all the same as they should be.

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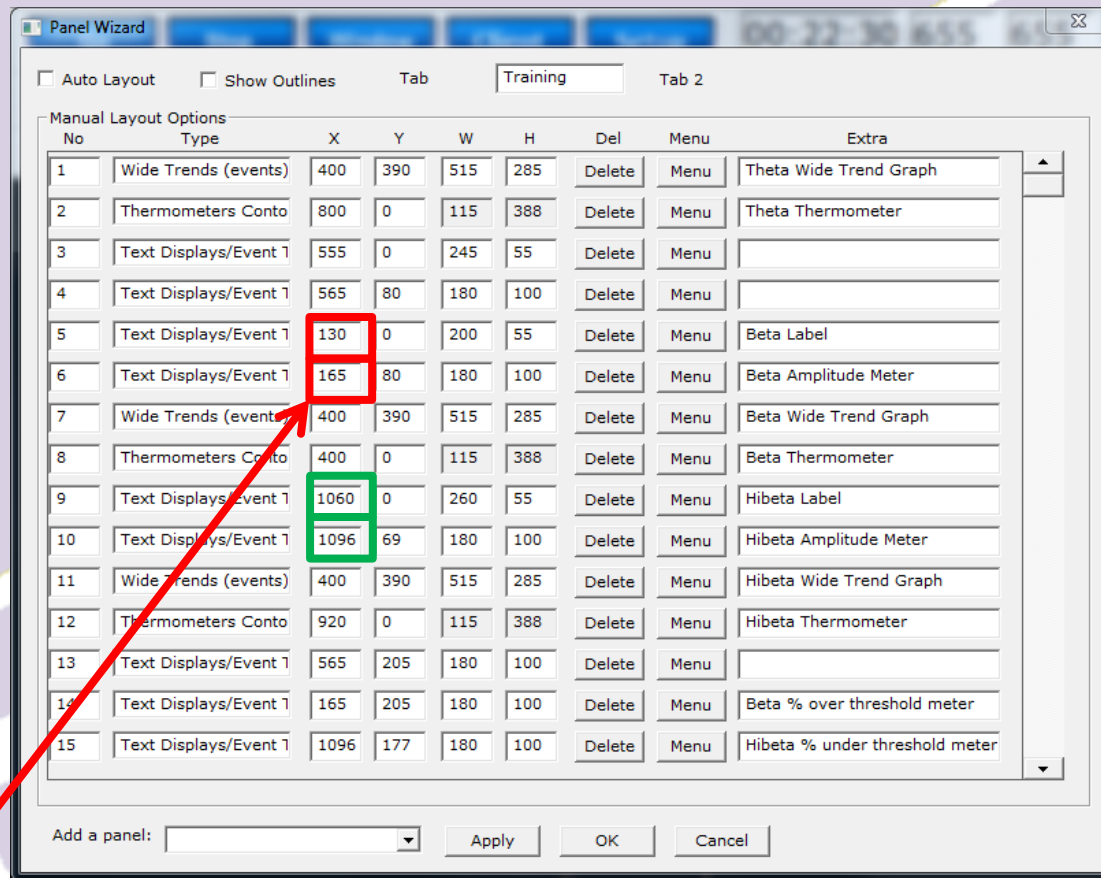
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- Now let's clean up the position of the Hibeta label. First, let's place the label flush against the top by making the y coordinate 0. I would like to make the x coordinate a whole number, so change it from 1059 to 1060.

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- Now let's clean up the position of the Hibeta Amplitude Meter. If we look at the relationship of the beta amplitude meter and the beta label we see the amplitude meter is indented by 35 pixels (165-130). Therefore, set the x coordinate of the hibeta amplitude 35 pixels from the edge of the hibeta amplitude meter, or $1060 + 35 = 1095$.

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Panel Wizard

☐ Auto Layout ☐ Show Outlines Tab Training Tab 2

Manual Layout Options

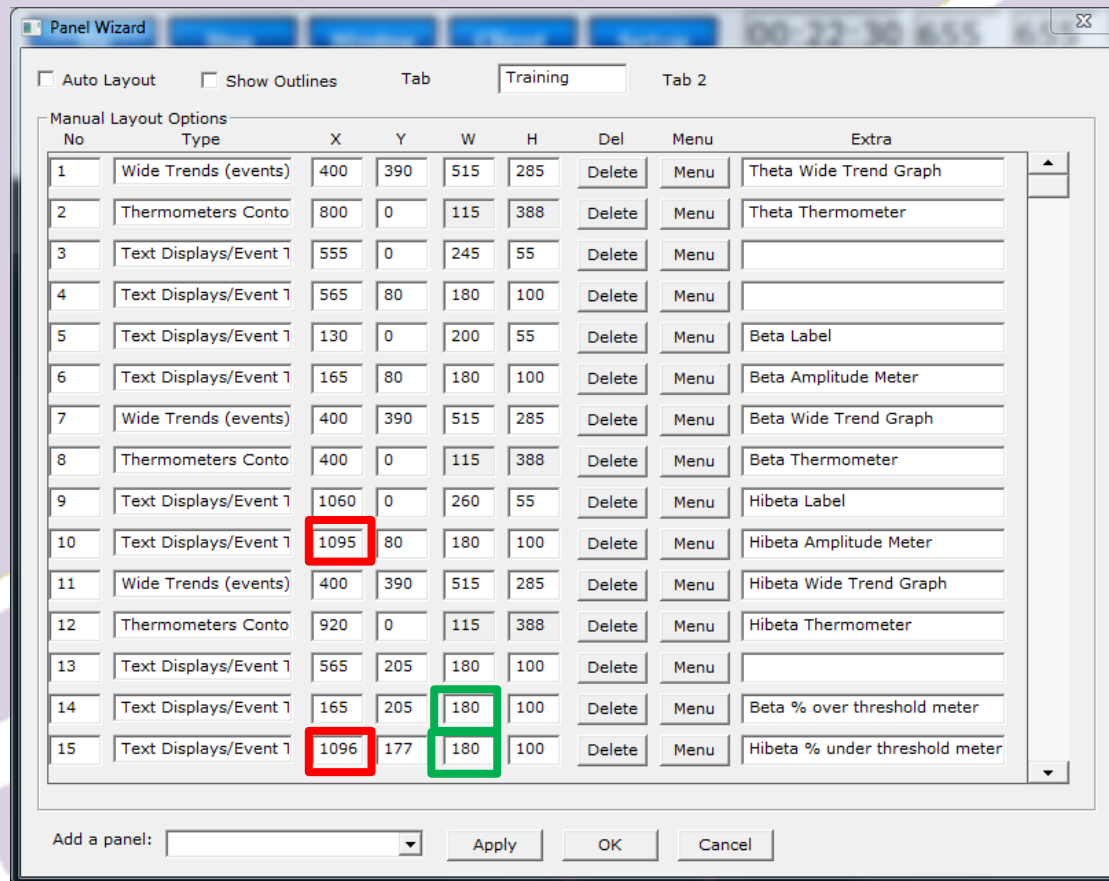
No	Type	X	Y	W	H	Del	Menu	Extra
1	Wide Trends (events)	400	390	515	285	Delete	Menu	Theta Wide Trend Graph
2	Thermometers Conto	800	0	115	388	Delete	Menu	Theta Thermometer
3	Text Displays/Event 1	555	0	245	55	Delete	Menu	
4	Text Displays/Event 1	565	80	180	100	Delete	Menu	
5	Text Displays/Event 1	130	0	200	55	Delete	Menu	Beta Label
6	Text Displays/Event 1	165	80	180	100	Delete	Menu	Beta Amplitude Meter
7	Wide Trends (events)	400	390	515	285	Delete	Menu	Beta Wide Trend Graph
8	Thermometers Conto	400	0	115	388	Delete	Menu	Beta Thermometer
9	Text Displays/Event 1	1060	0	260	55	Delete	Menu	Hibeta Label
10	Text Displays/Event 1	1095	80	180	100	Delete	Menu	Hibeta Amplitude Meter
11	Wide Trends (events)	400	390	515	285	Delete	Menu	Hibeta Wide Trend Graph
12	Thermometers Conto	920	0	115	388	Delete	Menu	Hibeta Thermometer
13	Text Displays/Event 1	565	205	180	100	Delete	Menu	
14	Text Displays/Event 1	165	205	180	100	Delete	Menu	Beta % over threshold meter
15	Text Displays/Event 1	1096	177	180	100	Delete	Menu	Hibeta % under threshold meter

Add a panel:

- We also see the Beta Amplitude Meter is 80 pixels below the Beta Label. Lets make the Hibeta Amplitude Meter 80 pixels below the Hibeta Label.

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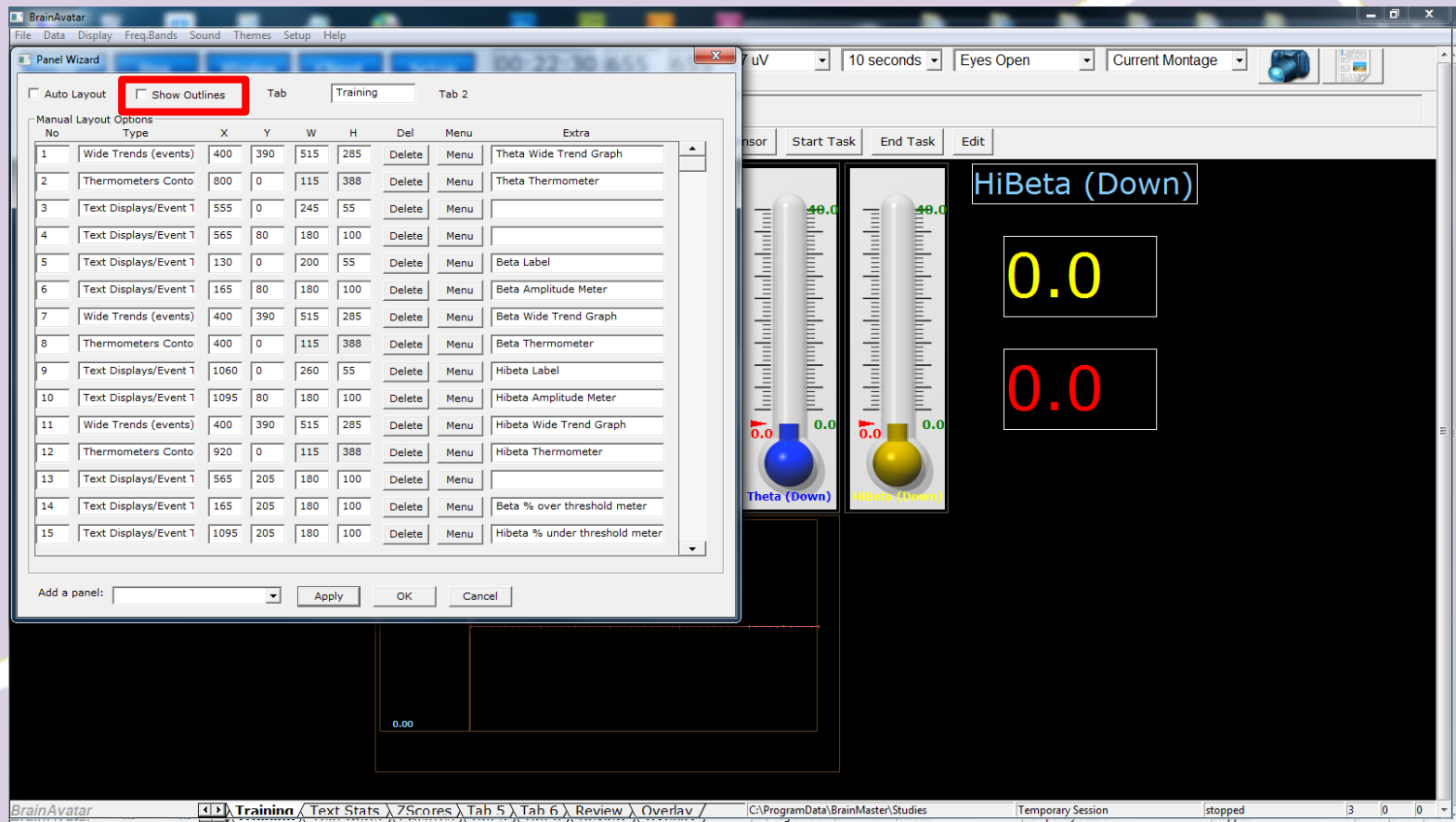
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- Comparing the Hibeta Amplitude Meter to the Hibeta % below threshold meter we see the x values should be the same 1095 pixels. Comparing the Hibeta Amplitude Meter to the Hibeta % below threshold meter we see the y values should be compared similarly to the y values of the Beta Amplitude Meter to the Beta % above threshold meter, or 180 pixels.

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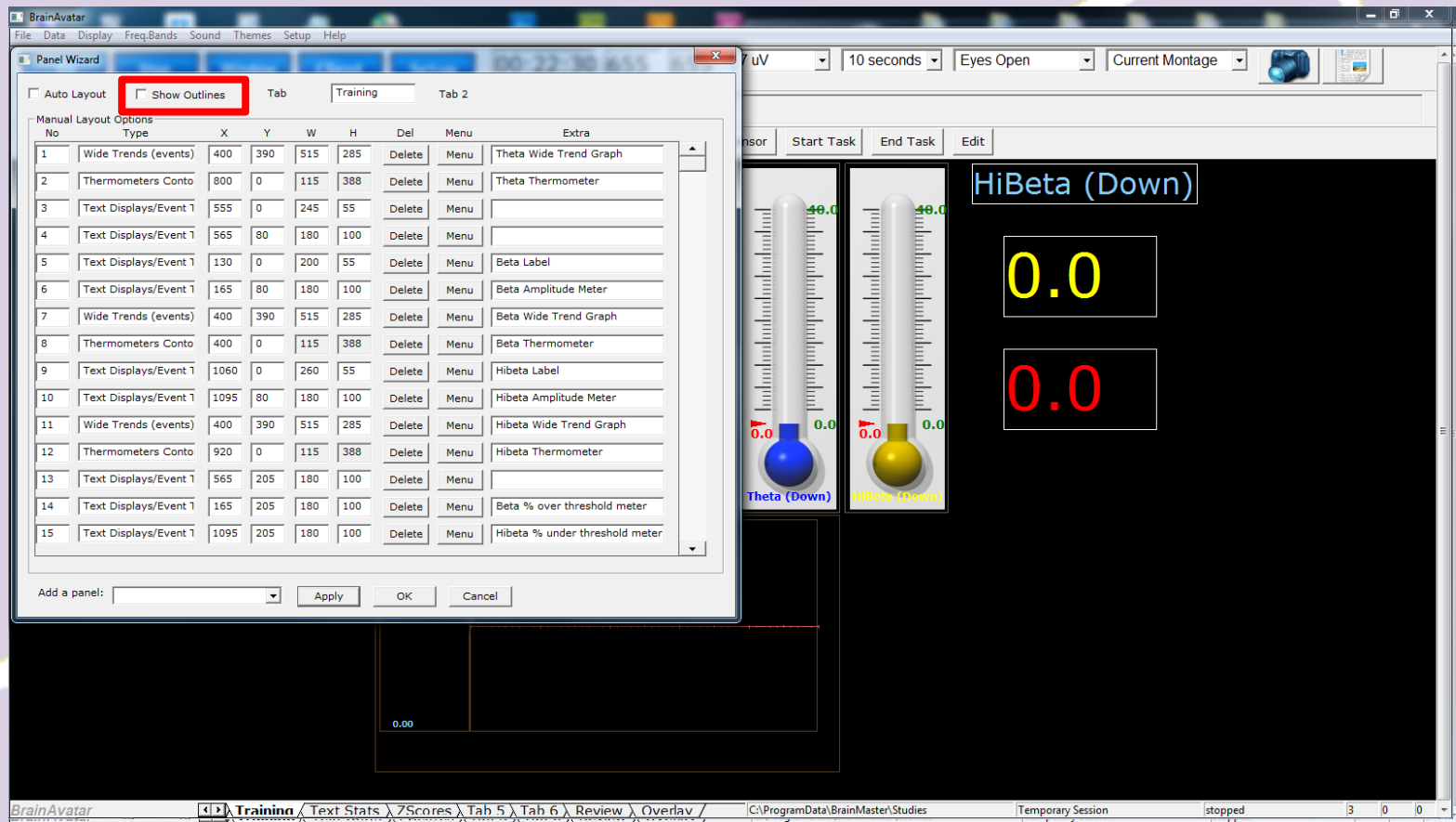
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- Once you have completed your changes click the “Show Outlines” checkbox on and off until you see the wireframes disappear and the objects appear on the Training Page below.

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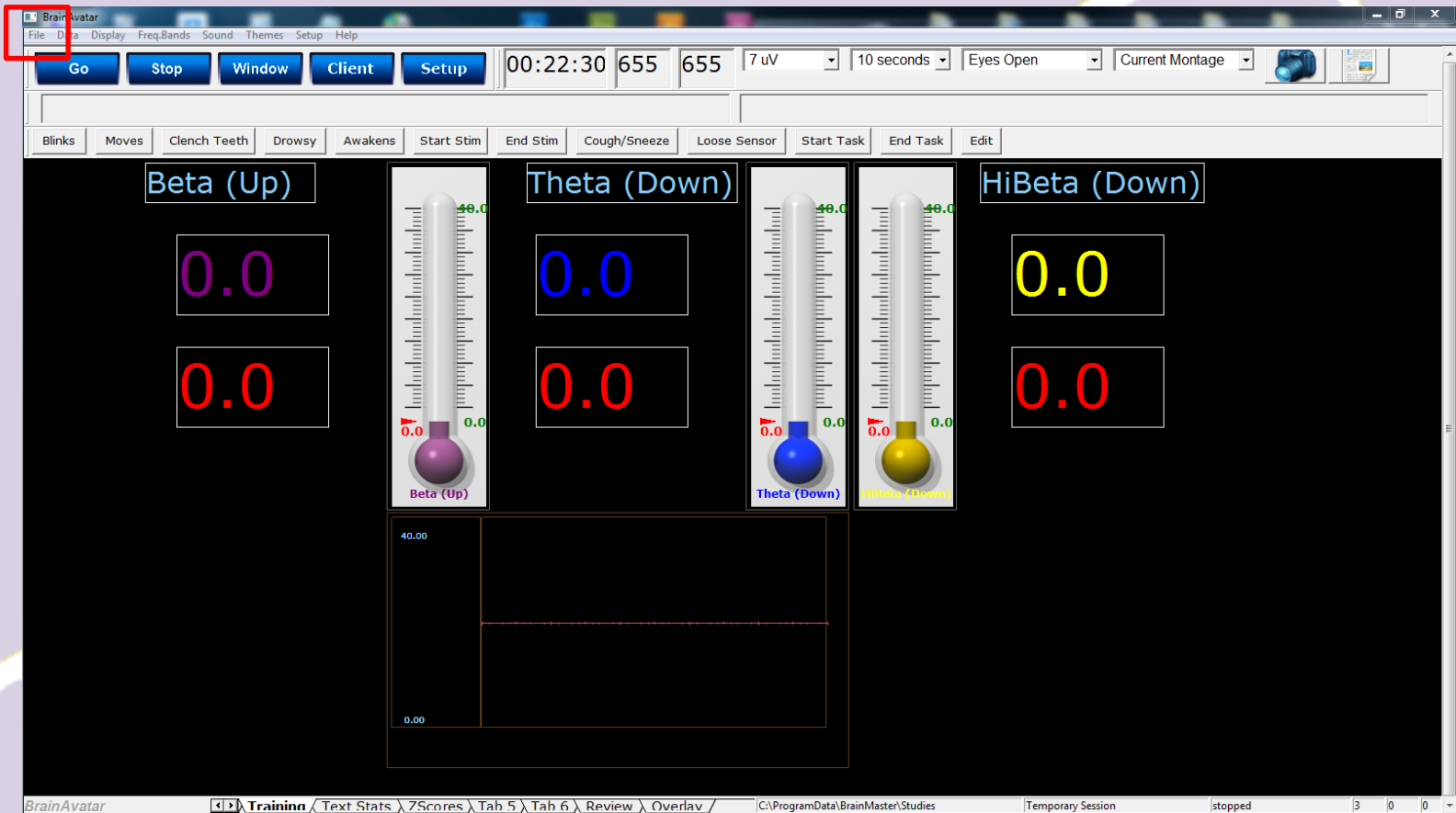
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- Once you have completed your changes click the “Show Outlines” checkbox on and off until you see the wireframes disappear and the objects appear on the Training Page below. Then click “Apply” and “OK” to save your changes.

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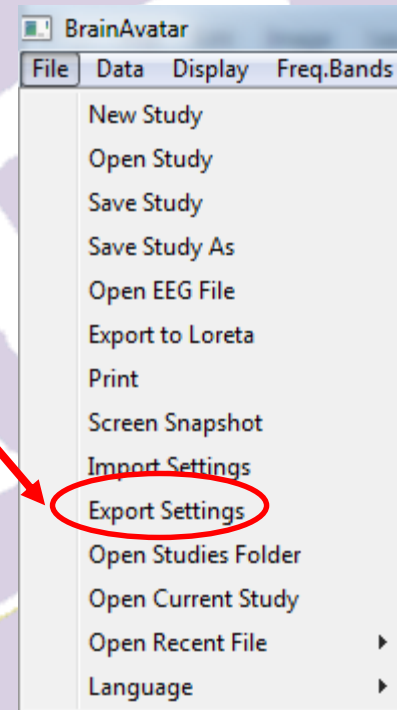
- Your Training Screen should now look like this. Now we can save the changes. Select File.

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Level 4

Next click “Export Settings”.

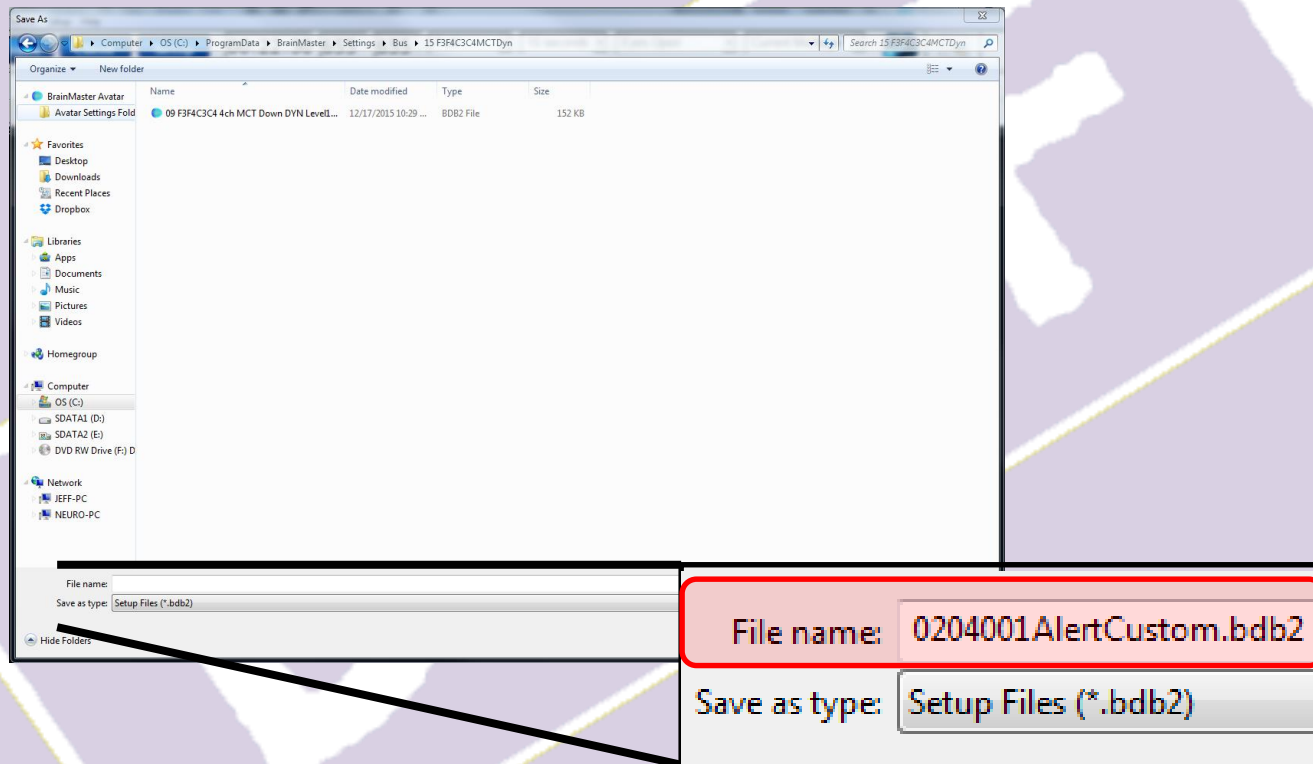


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Level 4

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.

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Power Point Manual

Get On The
BUS



BrainMaster
Universe
Simplified



“Alert”
level 4