

# 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 session parameters?
- The original level 1 setting provided for 10 contiguous 3 minute runs for a 30 minute session.
- Perhaps you would like to control the session manually.
- Let's take a look at the session tab.

*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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# DEEP

Level 2

## Lets Begin

- Make Sure the Atlantis Amplifier is plugged in.

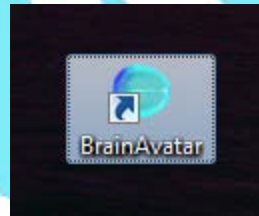


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# DEEP

## Level 2

- Open BrainAvatar by double-clicking the BrainAvatar Icon



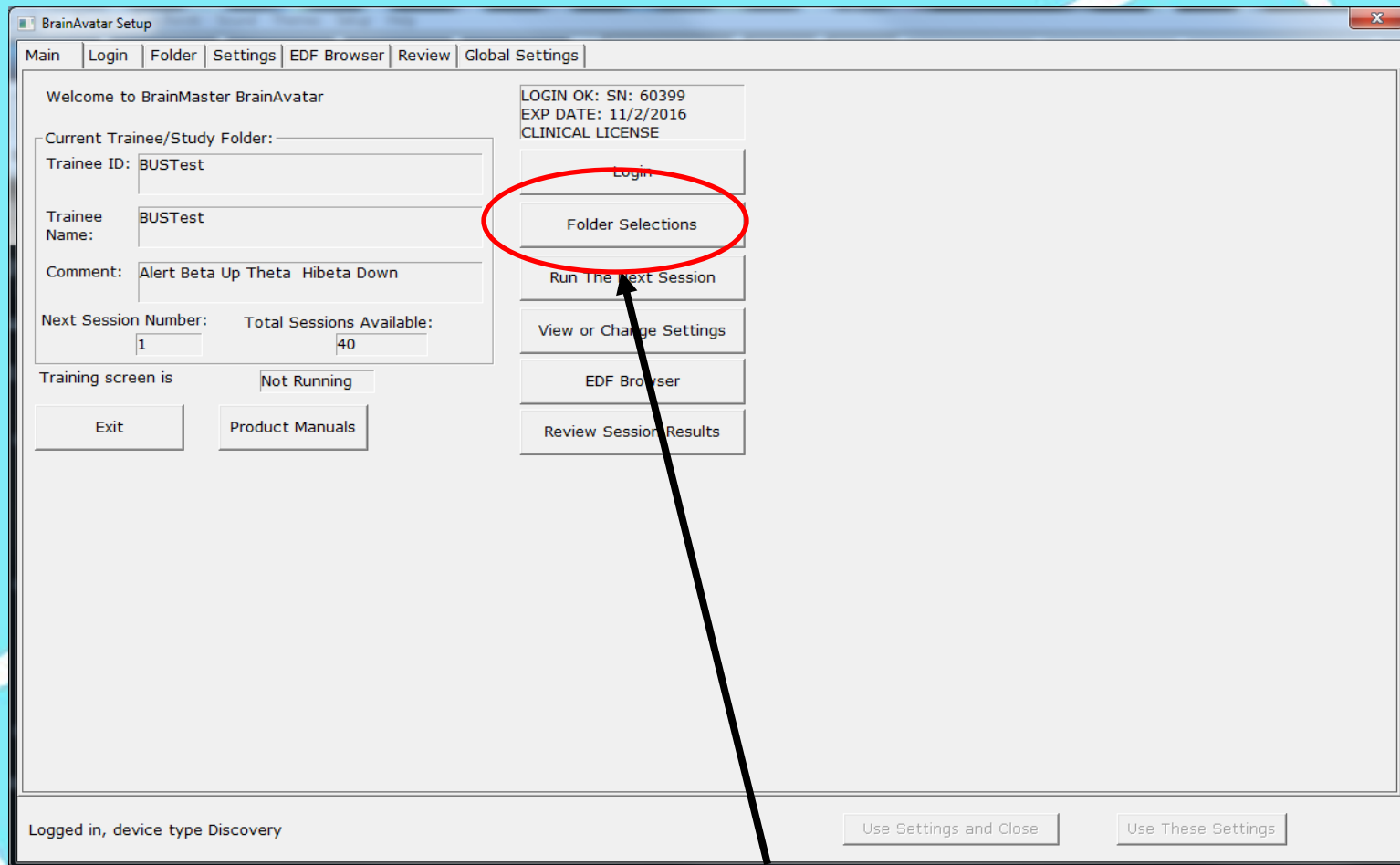
*All protocols are for demo and research purposes only. Clinicians must determine protocol choices. All protocols must be used within scope of practice and scope of competence.*

- 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

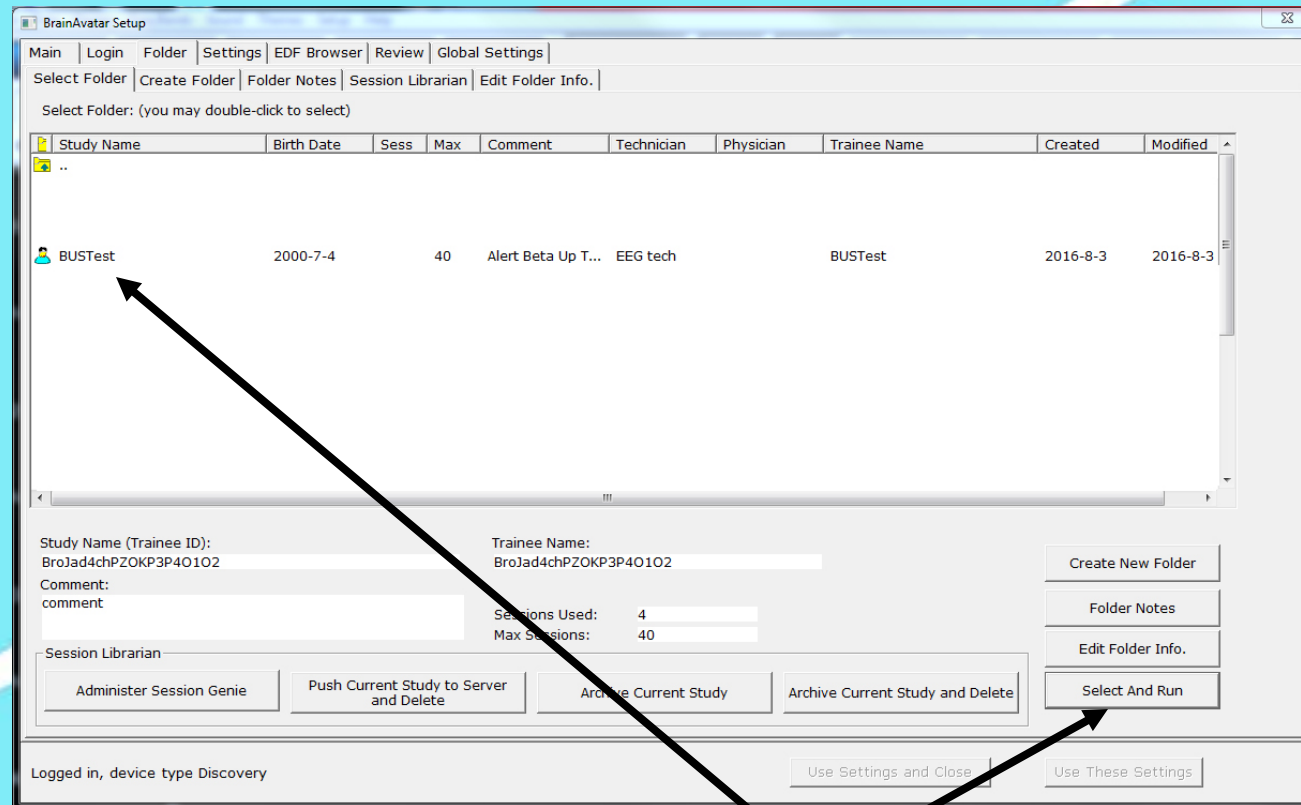
Create New Folder | Folder Notes | Edit Folder Info. | Select And Run

Logged in, device type Discovery

Use Settings and Close | Use These Settings

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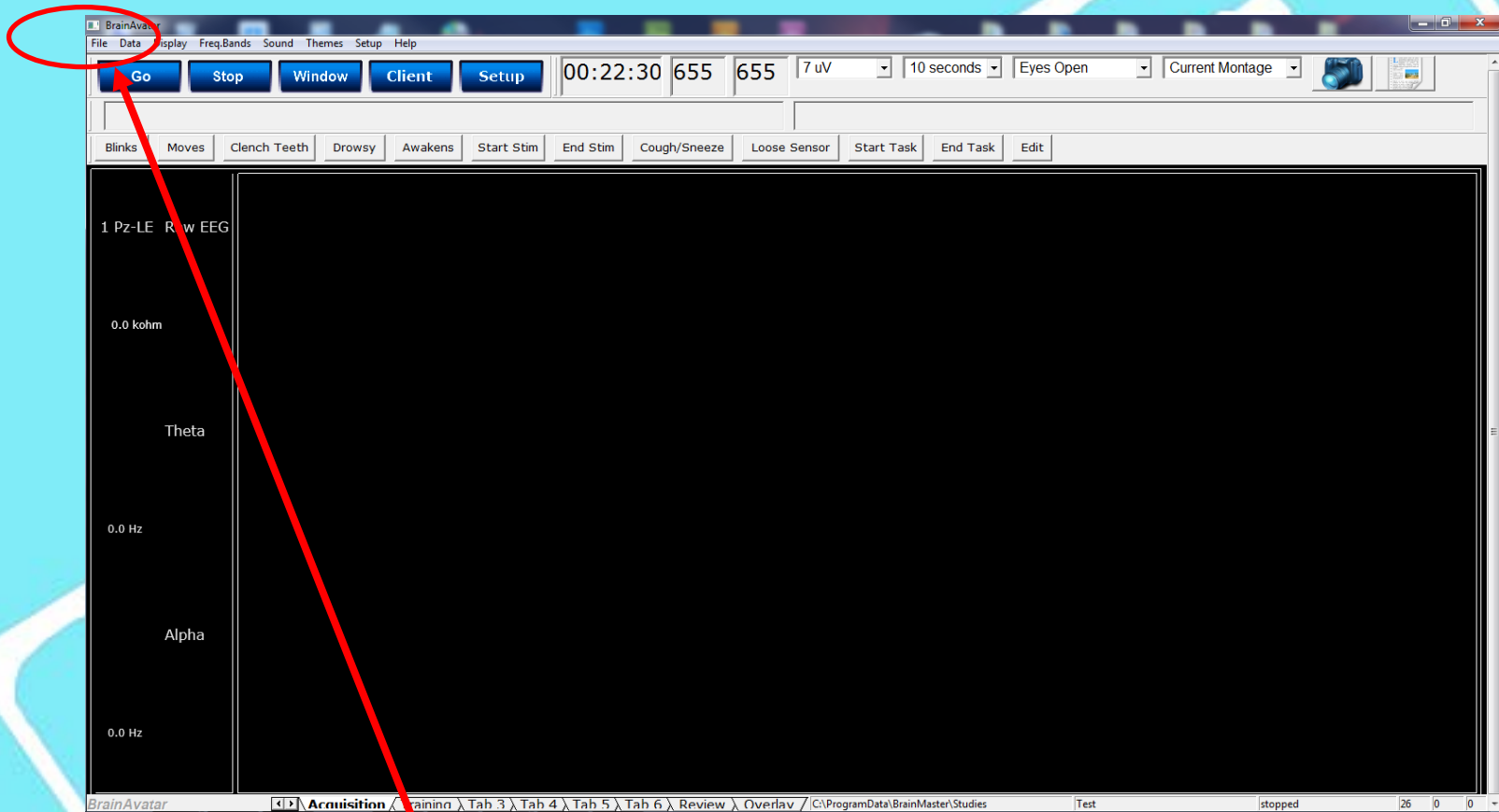
- The Select Folder Screen will appear.



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

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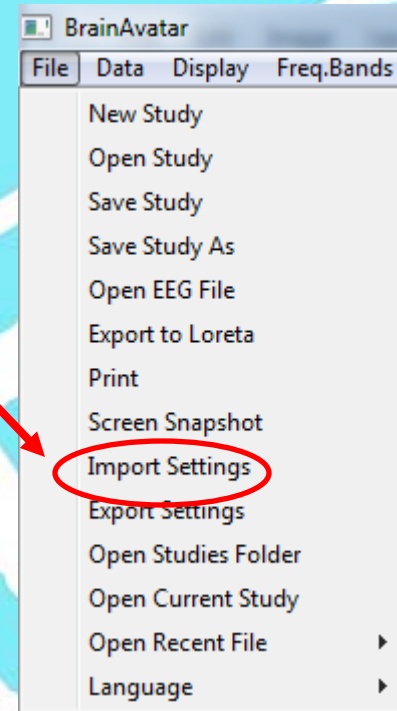
- The BrainAvatar Acquisition Screen is illuminated. The original DEEP Level 1 Setting File should be loaded.




- However, if it is not than Select “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

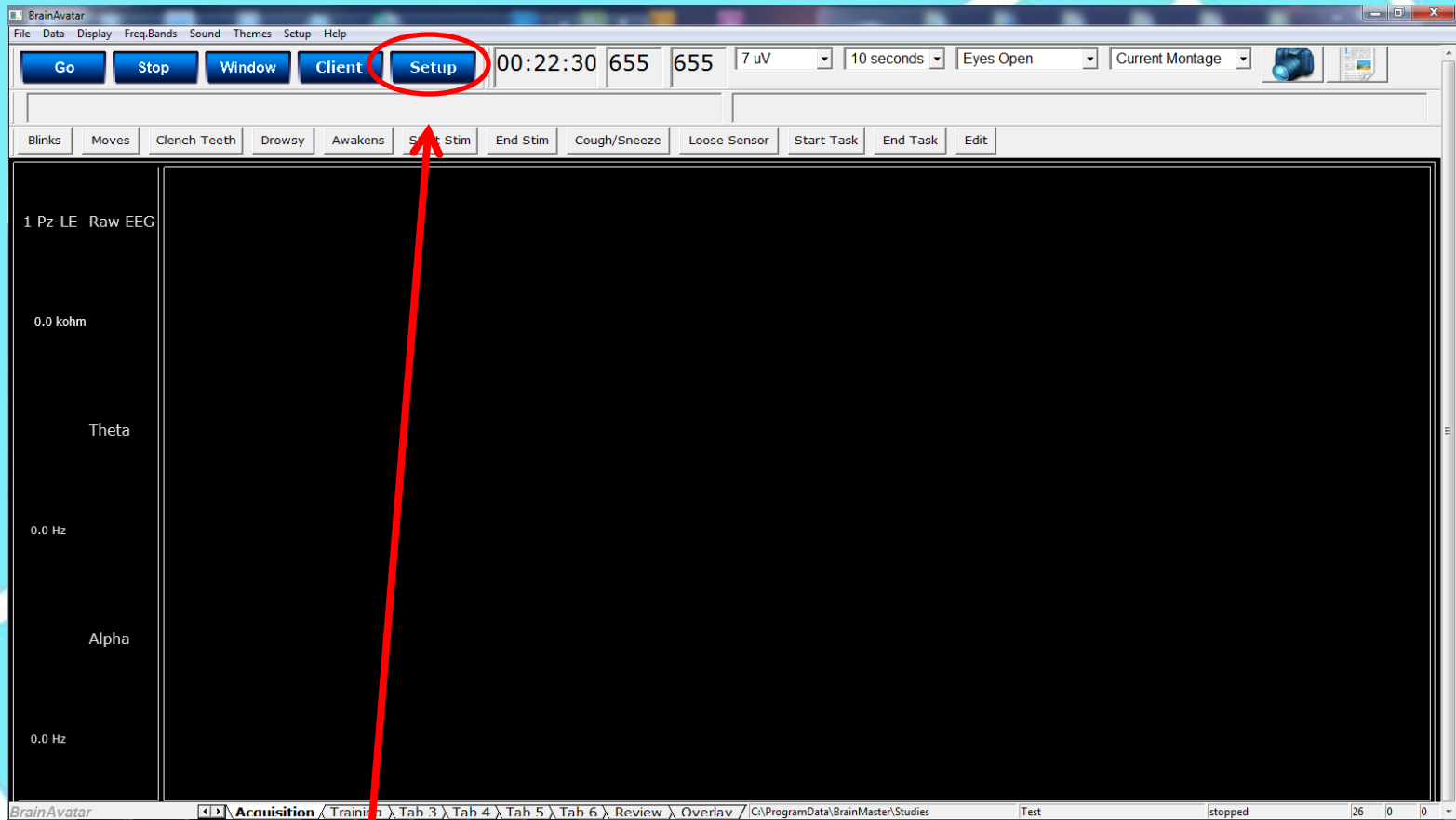
- The original Deep Level 1 setting is imported into the Client’s Study and is now ready for modification.

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# DEEP

The Protocol is now ready for Modification

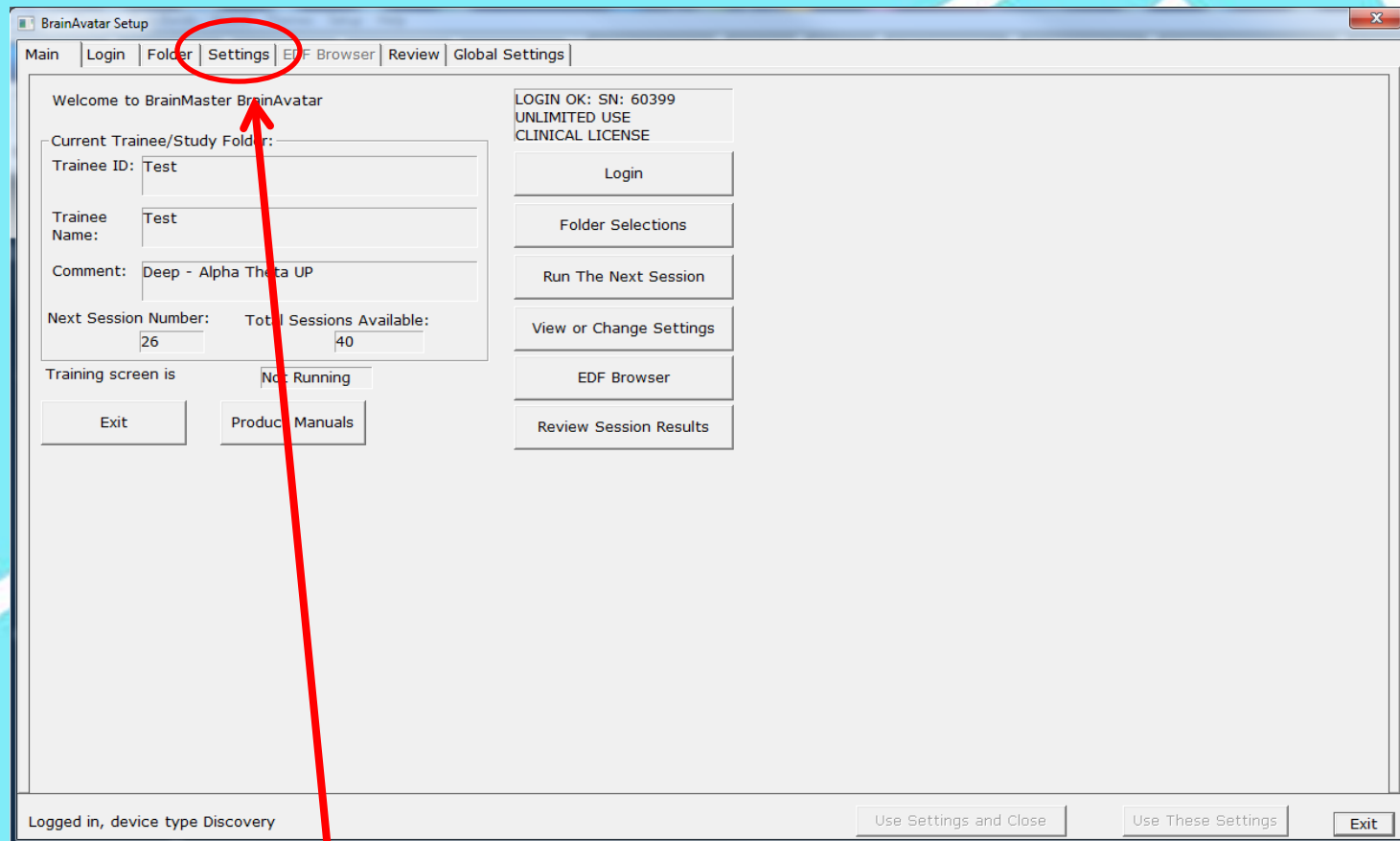


- Click “Setup”.

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# DEEP

The Protocol is now ready for Modification

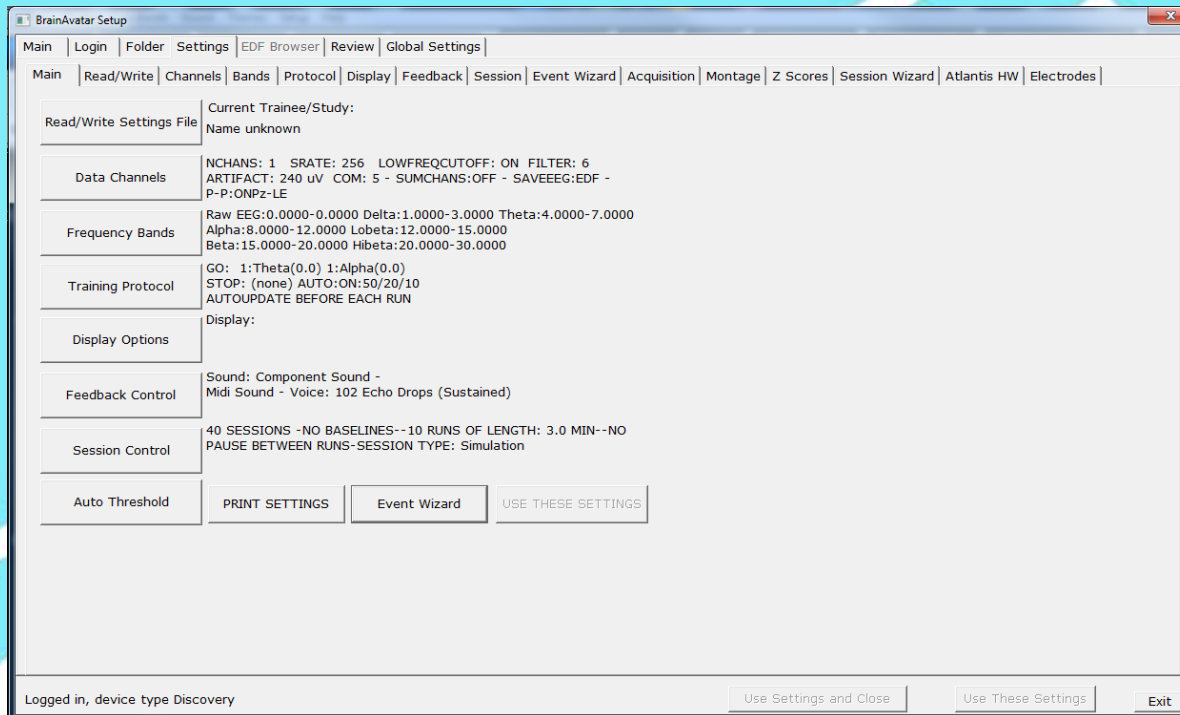


- Click “Settings”.

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# DEEP

## The Protocol is now ready for Modification

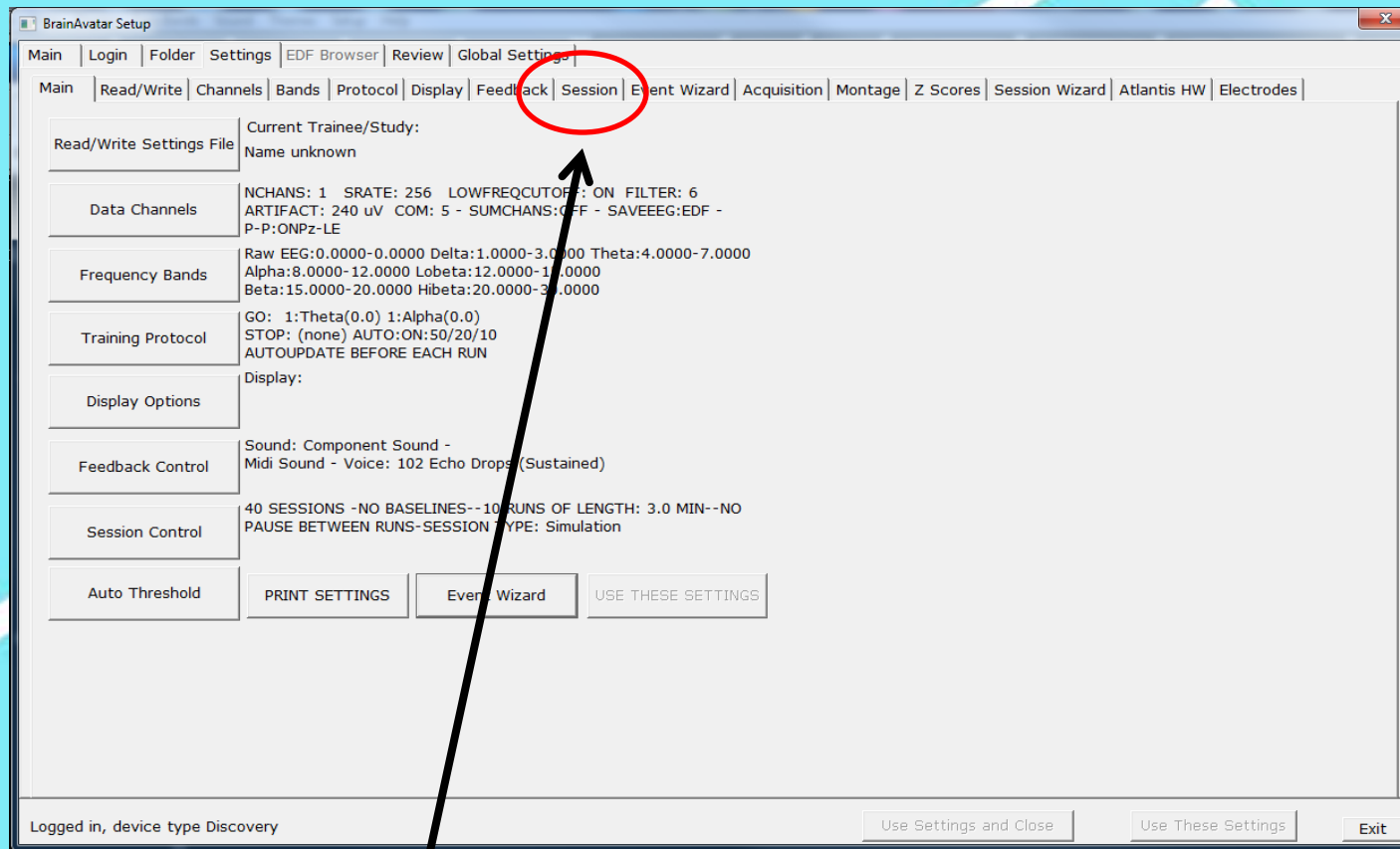


YOU ARE NOW ABOUT TO ENTER THE “BRAIN CENTER” OF THE BRAINAVATAR PROGRAM. ANY HAPHAZARD MODIFICATIONS HERE WITHOUT KNOWLEDGE MAY CAUSE UNPREDICTABLE RESULTS. THIS INSTRUCTION MANUAL WILL GIVE YOU THE PROPER KNOWLEDGE TO ALTER THESE CONTROL SCREENS WITHOUT CONCERN. AGAIN, YOU CAN ALWAYS INSTALL THE ORIGINAL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

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# DEEP

The Protocol is now ready for Modification



Click “Session”.

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# DEEP

The Protocol is now ready for Modification

The screenshot shows the 'BrainAvatar Setup' window with the 'Session' tab selected. The window has a menu bar with 'Main', 'Login', 'Folder', 'Settings', 'EDF Browser', 'Review', and 'Global Settings'. Below the menu bar is a sub-menu bar with 'Main', 'Read/Write', 'Channels', 'Bands', 'Protocol', 'Display', 'Feedback', 'Session', and 'Event Wizard'. The main content area contains a note: 'NOTE: Please enter all times as whole seconds (1, 2, 3, etc)'. There are four input fields: 'Baseline Length (pre and post)' with a value of '0' and text 'Seconds (before and after) (Length of 0 means "no baselines")'; 'Run Length:' with a value of '180' and text 'Seconds (0 means run indefinitely)'; 'Number of Sessions:' with a value of '40' and text 'sessions (80 maximum) (0 allows repeated use of Test Session 1)'; and 'Number of Runs (Trials)' with a value of '10' and text 'Runs (Must have at least one Run)'. There are two radio button groups for 'Session Type': 'Assessment', 'Training' (selected), 'Simulation', 'Playback', 'Synthesize', and 'Calibration'. There is a checkbox for 'Pause Between Runs?' which is unchecked. There is a 'Session Wizard' button. At the bottom, there is a checkbox for 'Use Session Wizard to control session (use with MINI-Q)' which is unchecked.

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard

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

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

Run Length:  
 Seconds  
(0 means run indefinitely)

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

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

Session Type:

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

☐ Pause Between Runs?

Session Wizard

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

The session screen is where session parameters may be selected whether working with a client directly or setting up a client for remote training. Let's take a look at the choices available.

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# DEEP

The Protocol is now ready for Modification

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard |

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

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

Run Length: —  
 Seconds  
(0 means run indefinitely)

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

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

Session Type: —  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

Session Wizard

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

You may choose a baseline for your session. A baseline will provide a time interval where the EEG is recorded but no training occurs. It gives time for the client to settle in before training commences. A typical baseline period used is 30 seconds.

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# DEEP

The Protocol is now ready for Modification

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard

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

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

Run Length:  
 Seconds  
(0 means run indefinitely)

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

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

Session Type:  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

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

The number of session chosen is entered in this box. The maximum is 80 sessions. When the session limit is reached one will have to create a new folder for this client to add additional sessions.

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# DEEP

The Protocol is now ready for Modification

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard

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

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

Run Length:  
 Seconds  
(0 means run indefinitely)

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

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

Session Type:  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

Session Wizard

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

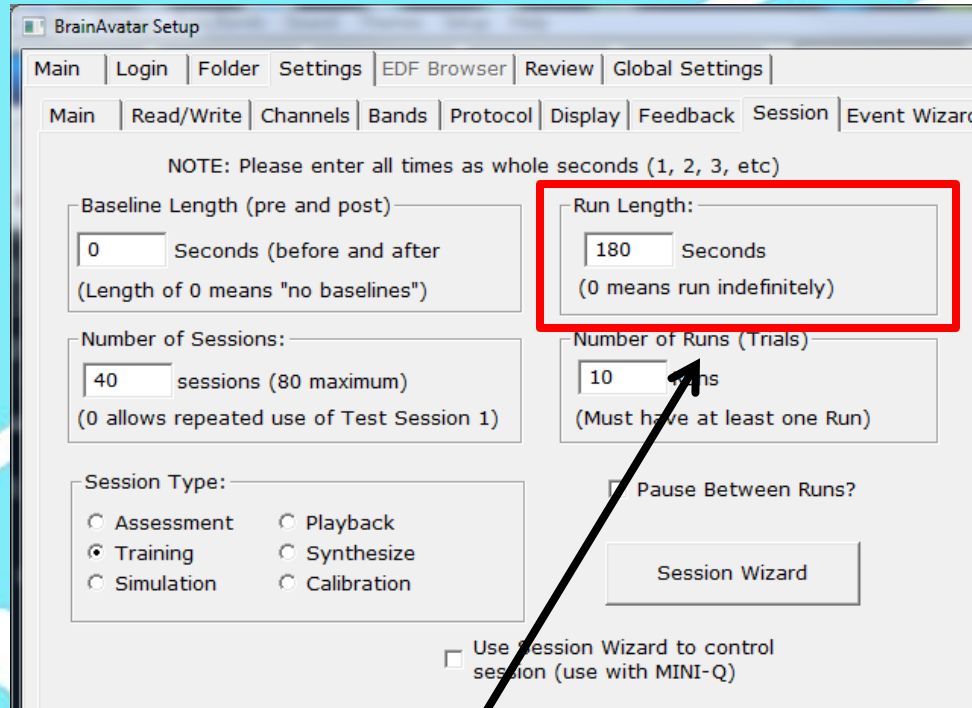
If 0 sessions are selected you may produce an infinite number of sessions for this folder. However, if you are interested in reviewing data, setting this to 0 will cause new data to overwrite old.

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# DEEP

The Protocol is now ready for Modification



The screenshot shows the 'BrainAvatar Setup' window with the 'Protocol' tab selected. A red rectangle highlights the 'Run Length' field, which is set to 180 seconds. A black arrow points from the text below to this field.

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard |

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

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

Run Length:  
 Seconds  
(0 means run indefinitely)

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

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

Session Type:  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

Session Wizard

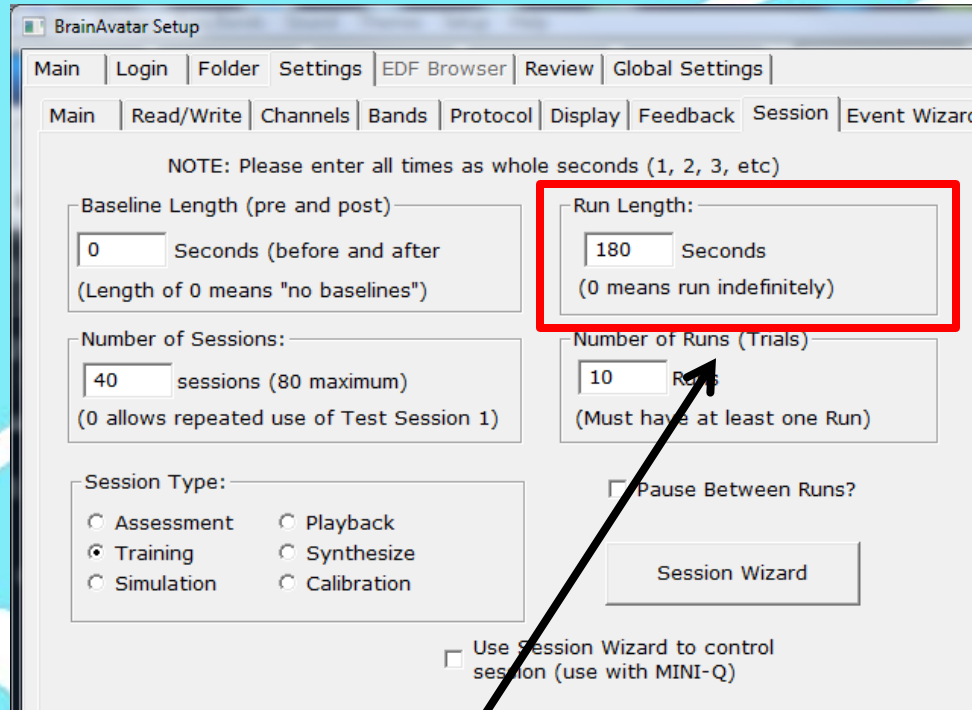
☐ Use Session Wizard to control session (use with MINI-Q)

The run length is defined in seconds. 180 seconds or 3 minutes is a typical run length. If you set the run length to 0 then you will be manually controlling the run length. Tapping the space bar while the protocol is running will pause the training and tapping it again will continue the training.

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The Protocol is now ready for Modification



The screenshot shows the 'BrainAvatar Setup' window with the 'Protocol' tab selected. The window contains several configuration fields and a 'Session Wizard' button. A red rectangle highlights the 'Run Length' field, which is set to 180 seconds. An arrow points from the 'Run Length' field to the 'Session Wizard' button.

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard |

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

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

Run Length:  
 Seconds  
(0 means run indefinitely)

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

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

Session Type:  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

Session Wizard

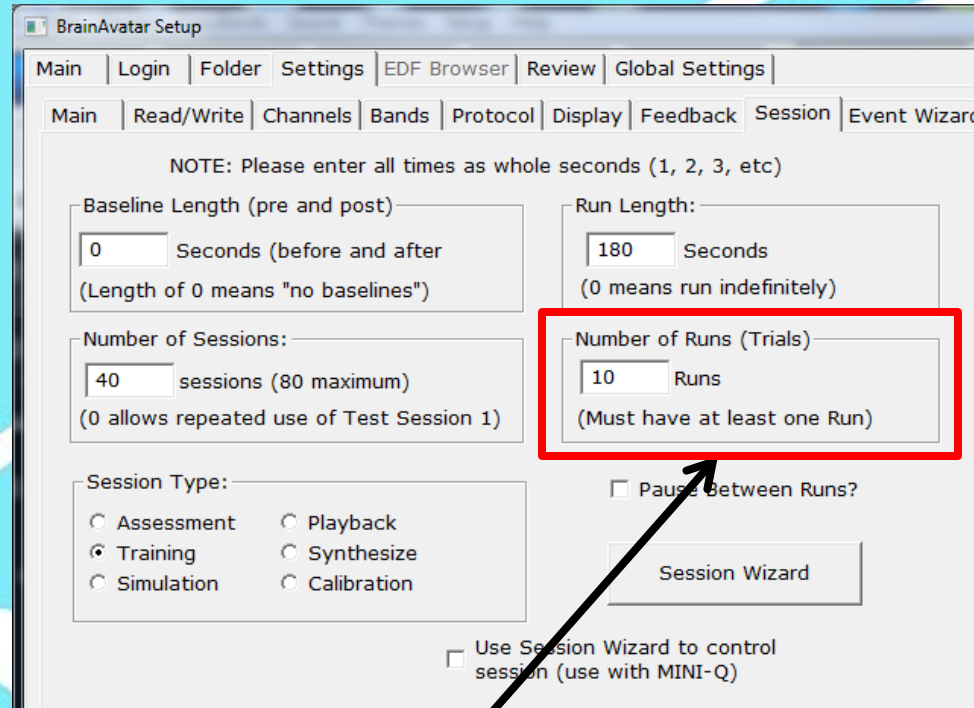
☐ Use Session Wizard to control session (use with MINI-Q)

Training data is saved as EDF files in the client's folder. If you were to tap the space bar in order to pause training, an EDF file will be created for that segment. When the space bar is tapped to continue another EDF file will be started. However, when you go to review the data, all of the data from this particular session will be accumulated from all the EDF files created and be summarized for you.

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The Protocol is now ready for Modification



The screenshot shows the 'BrainAvatar Setup' window with the 'Protocol' tab selected. The window contains several configuration fields and checkboxes. A red rectangle highlights the 'Number of Runs (Trials)' field, which is set to 10. An arrow points from the text below to this field.

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard

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:  
180 Seconds  
(0 means run indefinitely)

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

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

Session Type:  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

Session Wizard

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

The number of Runs (Trials) of the Run Length set in the box above are selected here. For manual control select 1 run and a run length 0 and control is all yours.

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The Protocol is now ready for Modification

BrainAvatar Setup

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

Main | Read/Write | Channels | Bands | Protocol | Display | Feedback | Session | Event Wizard

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

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

Run Length:  
 Seconds  
(0 means run indefinitely)

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

Number of Runs (Trials):  
 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)

Session Types are selected in this box. Default is "Training" which allows you to record EEG and train the client. Selecting "Assessment" simply records EEG without training. Selecting "Simulation" produces noise that can be used to test training set ups. "Playback" would prompt you to enter an EDF file to playback. "Synthesize" works much the same as Simulation. "Calibration" is selected when calibrating the amplifier with a calibration device.

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# DEEP

The Protocol is now ready for Modification

The screenshot shows the 'BrainAvatar Setup' window with the 'Protocol' tab selected. The window contains several input fields and checkboxes for configuring session parameters. A red circle highlights the 'Use Settings and Close' button at the bottom right, with an arrow pointing to it from the text below.

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:  
180 Seconds  
(0 means run indefinitely)

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

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

Session Type:  
☐ Assessment ☐ Playback  
☒ Training ☐ Synthesize  
☐ Simulation ☐ Calibration

☐ Pause Between Runs?

Session Wizard

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

Logged in, device type Discovery

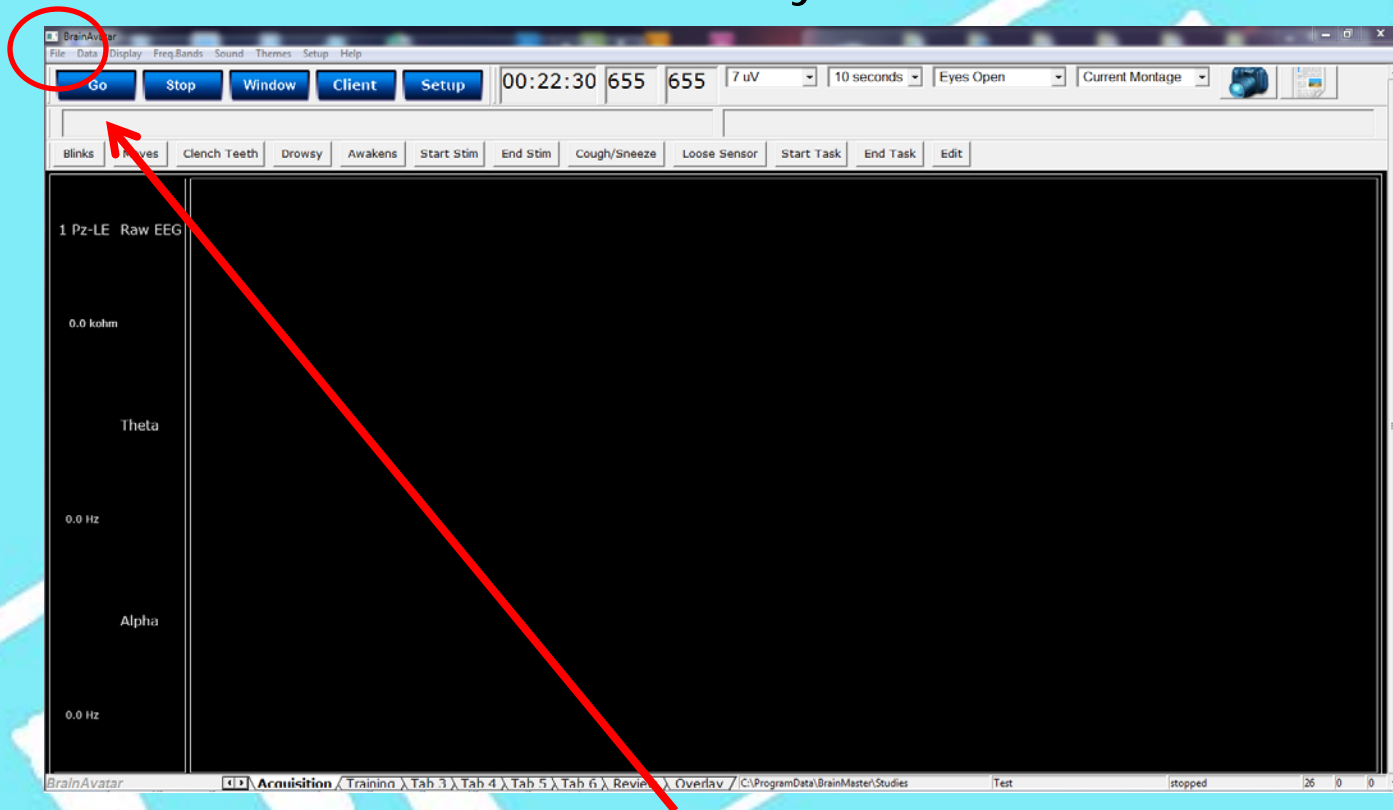
Use Settings and Close Use These Settings Exit

Once session parameters have been selected make sure the Session Type is set to “Training” so that it is ready to go for the client and then click “Use Settings and Close”

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# DEEP

The Protocol is now ready for Modification



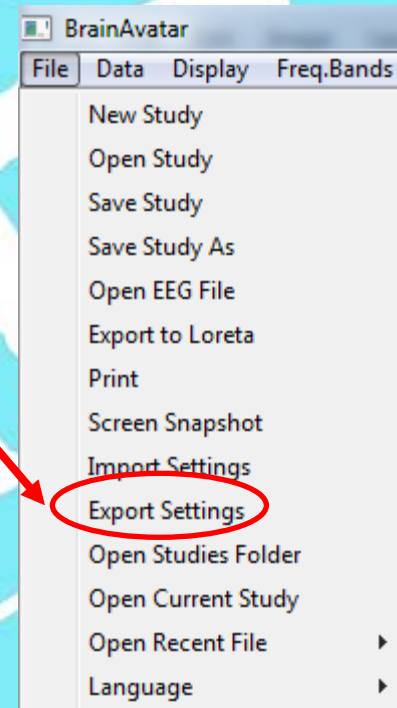
Once you close the Settings Screen you are returned to the “Acquisition Tab” of the Protocol. You may now save the changes made by selecting “File”

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# DEEP

## Level 2

Next select “Export Settings”.

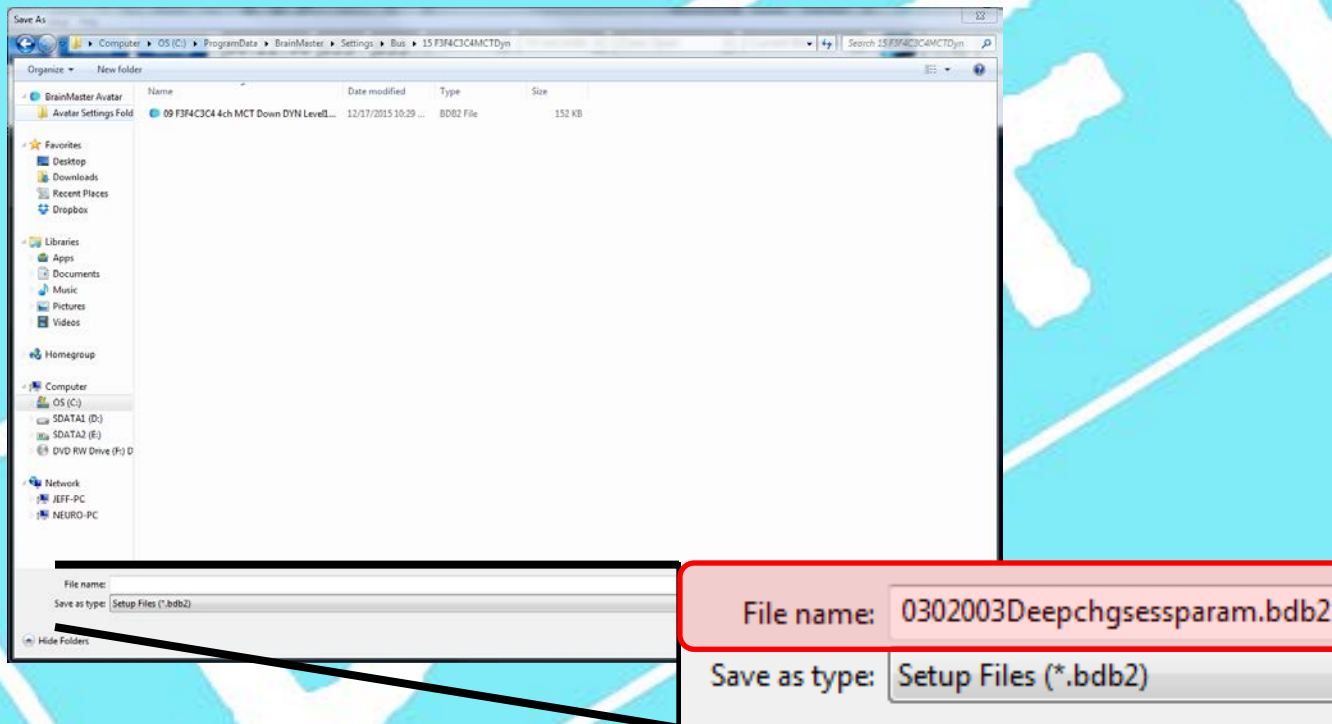


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# DEEP

## Level 2

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

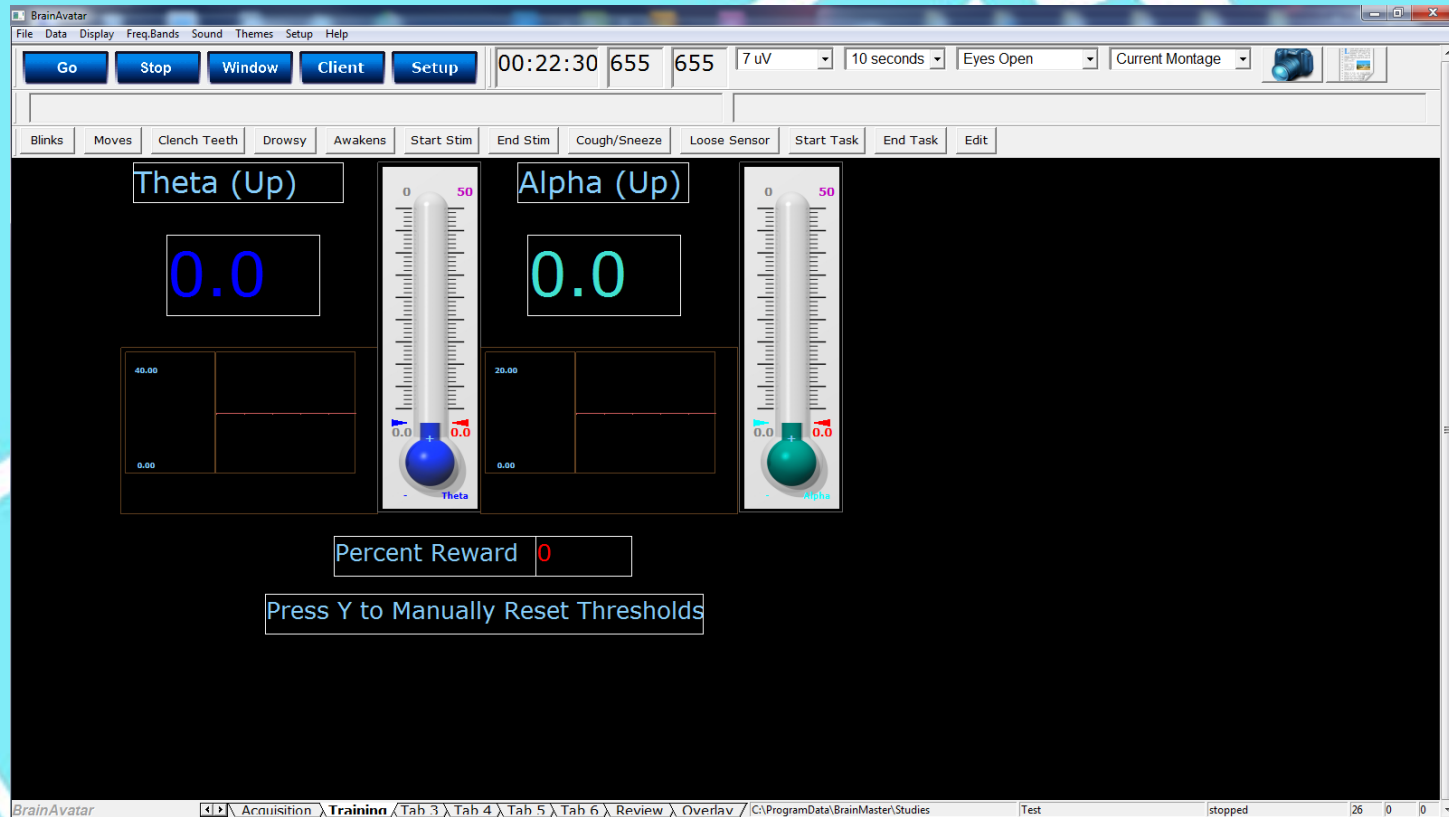


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# DEEP

## Level 2

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



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level 2