

EEG Hardware Setup

1. Plug the power supply box into an outlet and into the “power supply” port on each desired amp. There are two small grooves on the power supply box.

Line these up when trying to plug it in.



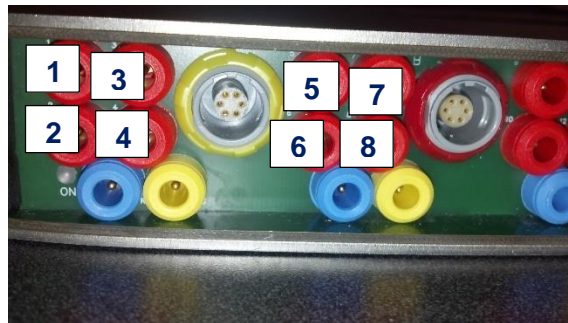
2. Plug in the USB cables into the amps and the USB box. Plug the USB box into the computer.



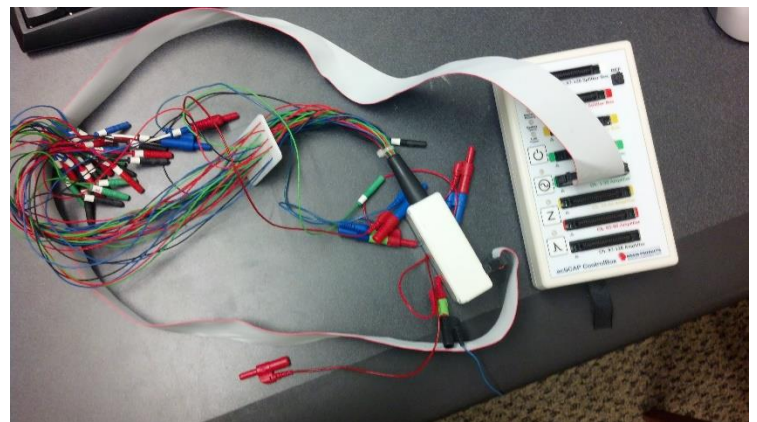
3. Plug the sync box into the amps. The cord marked “master” should be plugged into the top amp in the “sync out” port. The cords marked “slave” should be plugged in the lower amps into the “sync in” port.



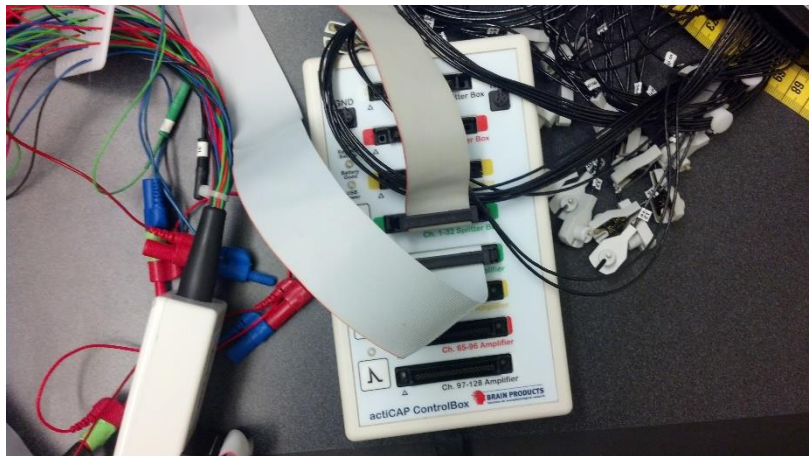
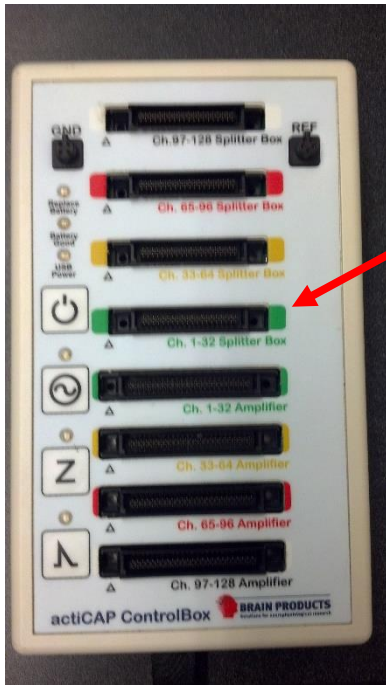
4. Take the colored electrodes and plug them into the amps. They are numbered (super small font in the upper left corner of each plug in), so be sure the plug each one into the correct slot. For the group of four, the lowest number is the upper left, the second is the lower left, the third is the upper right and the highest is the lower right.



5. Plug the grey flat cord attached to the colored electrodes into the actiCap ControlBox into the slot labeled “Ch. Amplifier.” Line up the arrows when putting it in and push until you hear a “snap” as it locks into place.



6. Take the grey flat cord of the EEG cap electrodes and plug them into the “Ch. Splitter Box” slot. Again, line up the arrows and push until you hear a snap. Plug the EEG electrodes into the cap.



7. Take the ground and reference EEG cap electrodes and plug them into the top two slots on the actiCap ControlBox.



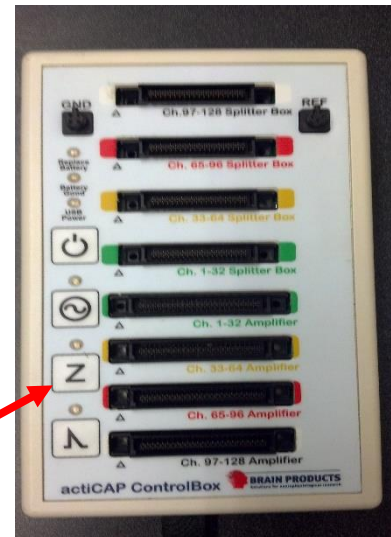
8. Turn the actiCap control box over and remove the battery cover. Take a USB cable and plug one end into the computer and the other end into the actiCap ControlBox.



9. Turn on the amps.



10. It is now set up for the impedance to be checked. Open the actiCap software (there is a shortcut to this on the desktop, it's called actiCap Control). There is a tab that says "impedance check" at the top of the screen. Click on this tab and then click the "Impedance On" button on the left side of the screen. You can drag this window onto the other monitor to make it easier to see. Take the syringe and apply gel to each electrode in order to get the impedance as low as possible. You will see the values change on the screen when you do this. The impedance box may time out after a while (after about 5 minutes). If this happens, hold down the "Z" button on the actiCap ControlBox to turn it back on.



11. When satisfied with the impedance levels, remove the USB cord from the actiCap ControlBox. There are rechargeable batteries in one of the outlets in the lab. Replace the USB cord with these batteries.

12. Everything is set up and you are now ready to start recording data!

