

ActiveThree Quick Guide

Thank you for ordering an ActiveThree which has now arrived in your lab. Since you already are a accustomed customer with the ActiveTwo, the continuation of using a Biosemi system is quite straightforward, however some things need to be considered when using the ActiveThree:

1) Remove the Carry Case out of the cardboard box and then setup the ActiveThree on a table. Place the USB Receiver V5.1 next to the ActiveThree (note, any older USB Receivers are not compatible with the ActiveThree EEG System).

2) Among the accessories you will find also a Optical Fiber, around 10m long – this fiber is a SC to SC Fiber Optic Cable and [Optical Fiber Cable SC-SC \(ActiveThree\) | NEUROSPEC Webshop](#) – found here. Please connect one end to the ActiveThree and the other to the USB Receiver Unit. Use the USB Cable that is part of the package also and connect the USB Receiver.

Please note: *before connecting the USB Cable to the PC (that is powered by Windows 10 or 11 PRO and not require any admin rights!), make sure that this PC must be connected to the Internet, as the USB Receiver (unlike with the ActiveTwo) pulls the driver straight from the Microsoft Site and installs the same on that PC you wish to connect the USB cable to.*

3) install the Runtime Engine on the Biosemi Stick found inside the carry case (purple stick) called: RE2021 or download if not available from the Biosemi Website: https://www.biosemi.com/download/LabViewRunTimeEngine/ni-labview-2021-runtime-engine_21.0.0_offline.iso

If previous ActiView using also RE2021 was installed no need to re-install this RE2021 engine –

You can then just copy paste the entire Folder: ActiView104 found on that Memory Stick as well – if not found, then download from here:

<https://www.biosemi.com/download/LatestActiView/ActiView104/ActiView104.zip>

4) once all done, please send a short cut icon of ActiView 104 to the Desktop of your PC

5) insert now a battery found in the carry case into the ActiveThree – there is a wheel knob on the right hand side of the ActiveThree – turn and pull – now insert the battery making sure the + Pole shows to the outside of the system – then mount the cover and turn to twist –

6) Power the system ON by pushing on the Power Button on the top of the ActiveThree. The system will show a Green LED and also a Blinking Blue CMS/DRL LED.

7) that is essentially how you can check the system and now go to ActiView and double click on the ActiView104 icon on your desktop. You may have to accept and configure your spam / virus program, but should now start as you are used to with previous ActiView versions.

8) hit the Start button top left and see a running trace with the default amount of AB channels.

9) Offsets: they should represent the number of installed channels now. If you purchased 64 channels the system should show 64+8 EX channels.

10) connect now a CMS/DRL Pin Set and cover the two tips with your fingers, and the Blue CMS/DRL LED should remain ON – Blue (not blinking)

11) If you wish, you can connect an A Set (either A labels or 1020 labels) and together with a CMS/DRL lay these into a cup of water (distilled if around) – check for the OFFSETS – these should all come down to around 0-50mV – when electrodes are new, they will build up air bubbles so just give them a wiggle and the OFFSETS should drop somewhat-

12) if any sensors were purchased, be reminded, that:

a) you have automatic sensors detection: so, make sure to Stop the system from running. Now connect for example the GSR Sensor. Hit the start button and see that the Sensor Tab remains black and not greyed out any longer. You can see the trace for the GSR Sensor in the Sensor tab. If you hold the CMS/DRL and the GSR Sensor with your fingers, you can see two green LED's coming on in the Sensor Tab and possible fluctuations showing a GSR activity – same with a respiration belt etc.

b) when you wish to acquire data, be reminded, that no longer you have to actually click on a sensor so the data will be saved, it will automatically save any connected sensors to the BDF file.

c) if during a examination, another sensor is connected, then ActiView has to be restarted, as otherwise the sensor is not detected.

13) Lastly the CFG File: the older CFG files are not compatible with the Version ActiView 104, since there are a few additional programming files. So, if any channel labels need to be altered, use the new CFG File – like A3_10-20system64+8.CFG File and configure to your wishes.