

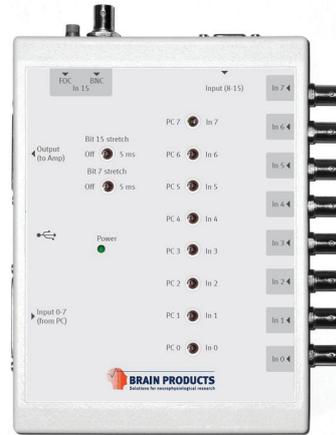
## Products & Applications

### TriggerBox and TriggerBox Extension

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A new Brain Products accessory, the TriggerBox and its Extender are soon to be released. The TriggerBox helps to handle and merge triggers arriving from different sources, which is quite often a requirement in complex laboratory setups. For example, some of the markers might arrive from experiment control software via parallel – DB25 (LPT port) – input while other devices – like MOVE, TMS etc. – may communicate through BNC. If so, the amplifier should record all the triggers simultaneously. The solution is the TriggerBox, which has connectors for both types of input and eight toggle switches to regulate bit-wise which input should determine the value of the output parallel port, where the EEG amplifier is connected.

Additionally, the TriggerBox offers connection to the 16<sup>th</sup> bit of the BrainAmp trigger input, via an optical fibre cable or BNC connector. It also offers a stretching function for the 8<sup>th</sup> and 16<sup>th</sup> bits. Stretching is useful if the incoming TTL pulses are too short for the amplifier and would otherwise go undetected. All BNC inputs are isolated, not only from each other but also from the other input connectors. The USB connection provides the power for the TriggerBox.



The TriggerBox Extender offers eight additional BNC connectors which can be linked to the 8 upper bits (from lines 8 and 15) of the BrainAmp or used as a stand-alone solution for amplifiers such as actiCHamp or V-Amp in situations where stretching, switching and isolation functions are not required. In combination with actiCHamp, the Extender can also be connected to the output trigger port in order to lead the outgoing signal to the BNC ports.

The multi-functionality of the TriggerBox and its Extender means that these two products serve as a general adapter which is intended to replace many small adapters, cables and boxes. They can be a useful addition to any lab. ●