Daisy Input (HyperScanning)

The Daisy input is the addition of an optical input to the front of the AD-box.
With this optical input, up to 4 AD-boxes can be 'Daisy-chained' for simultaneous synchronized measurements on 2, 3 or 4 subjects (HyperScanning). When AD-boxes are equipped with Daisy chain inputs, then they can be connected by optical fibers: Box1 --> Box2 --> Box3 --> Box4 --> USB-receiver plus computer.

Because the AD-boxes are only connected by optical fibers (each system has its own battery power supply), the systems and subjects remain completely galvanically isolated from each other (optimal interference suppression and safety). Distance between the subjects can be up to hundreds of meters.

The sample rate of the Daisy-chained systems is synchronized. All signals from the 2, 3 or 4 systems are processed in a single computer, and stored in a single file. In daisy chain mode, the systems can be used with a maximum of 128+8+sensors per system on 2 kHz sample-rate. A maximum of 4 AD-boxes can be used in HyperScanning mode
Each AD-box will use its own reference (CMS and DRL electrodes for all 4 subjects)
BioSemi Daisy-chaining is based on the philosophy to always use 1 AD-box per subject and not use 1 AD-box for all subjects.

The advantages of using 1 AD-box <u>PER</u> subject (BioSemi Daisy-chaining) against using 1 AD-box for <u>ALL</u> subjects (not BioSemi)
- BioSemi Daisy-chaining: when any subject touches or comes near a source of interference, the other subjects will not show this interference.
- BioSemi Daisy-chaining: when any subject touches mains powers, the other subjects will not have a safety risk.

The first box in the chain must always be set at Speedmode 0. (you can regard this as the locomotive)
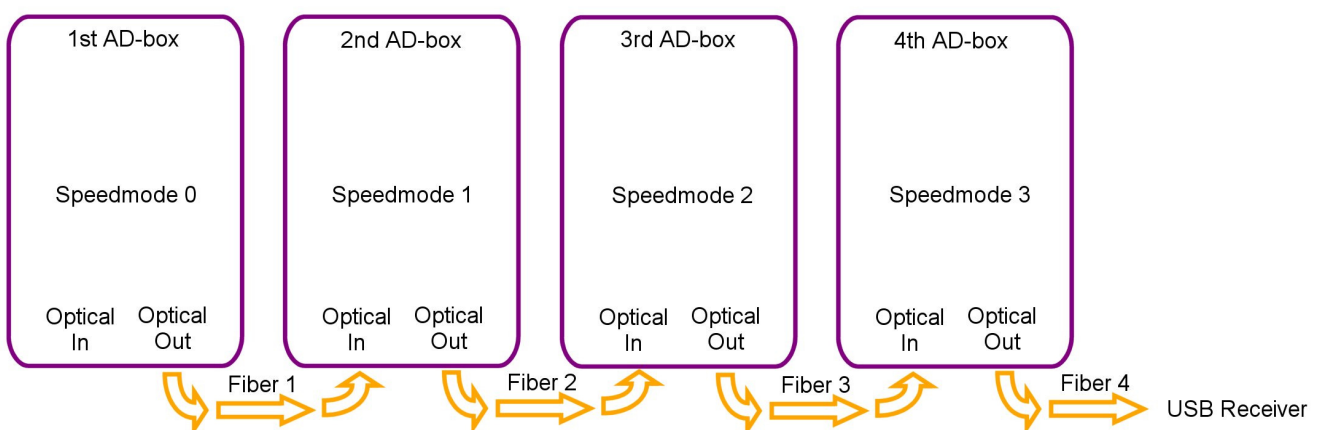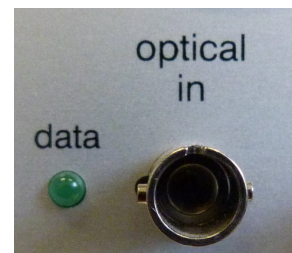Boxes number 2,3 and 4 can be set at Speedmodes 1,2 and 3..

Box 1 : Select Speedmode 0
Box 2 : Select Speedmode 1
Box 3 : Select Speedmode 2
Box 4 : Select Speedmode 3

Order code: DAISY
Price: EUR 1000,-