


Set up Your TriggerBox Plus



© Brain Products GmbH
V001

Worldwide Caution:
Our products are scientific equipment for INVESTIGATIONAL USE ONLY! Medical use e.g. for diagnosis, treatment of disease or other such purposes is strictly forbidden.

 Brain Products GmbH
Zeppeinstrasse 7
82205 Gilching
Germany
T +49 (0) 8105 733 84 0
F +49 (0) 8105 733 84 505
sales@brainproducts.com
www.brainproducts.com

Caution: To ensure correct and safe use of the products, make sure that you also read the Operating Instructions carefully prior to operation.



TriggerBox Plus Setup

1

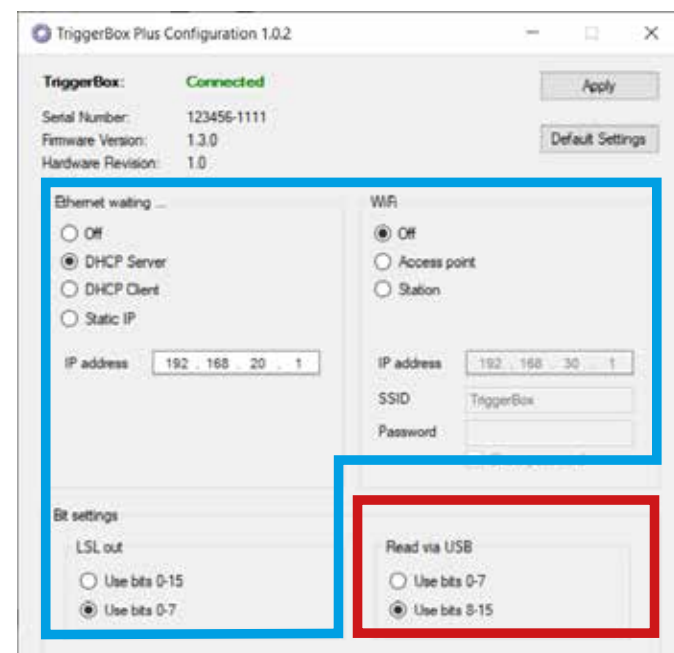
Installing the software:

Install the TriggerBox software first and only then connect the TriggerBox Plus to the computer. Software and Operating Instructions can be found on the website or the Brain Products Application Suite USB drive.

2

Connect the TriggerBox Plus via USB and start the Configuration tool

- Configure LabStreamingLayer (LSL) marker stream
 - Select Ethernet or WiFi (2.4 GHz only)
 - Choose 8-bit or 16-bit LSL markers
- If required: Select which inputs to read via USB

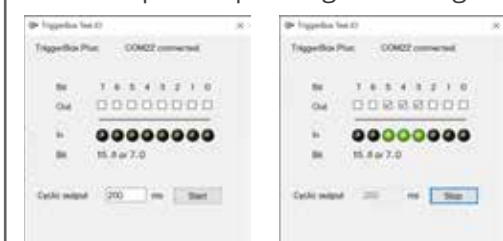


• "Apply" and close the Configuration tool when done

Note: The TriggerBox Plus can only be connected to one program at a time (including the Configuration tool and the TriggerBox Test IO).

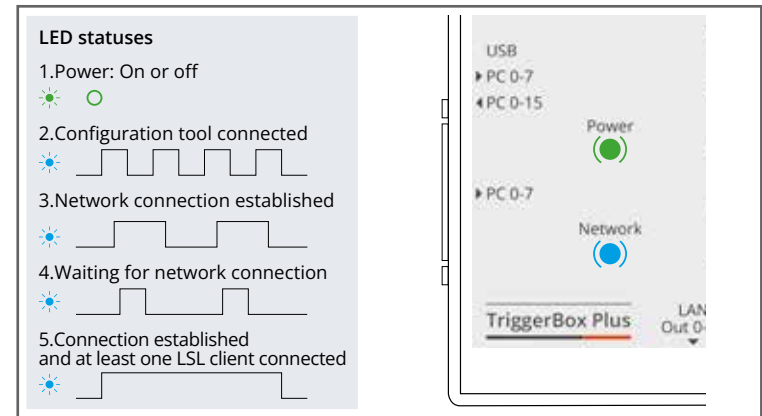
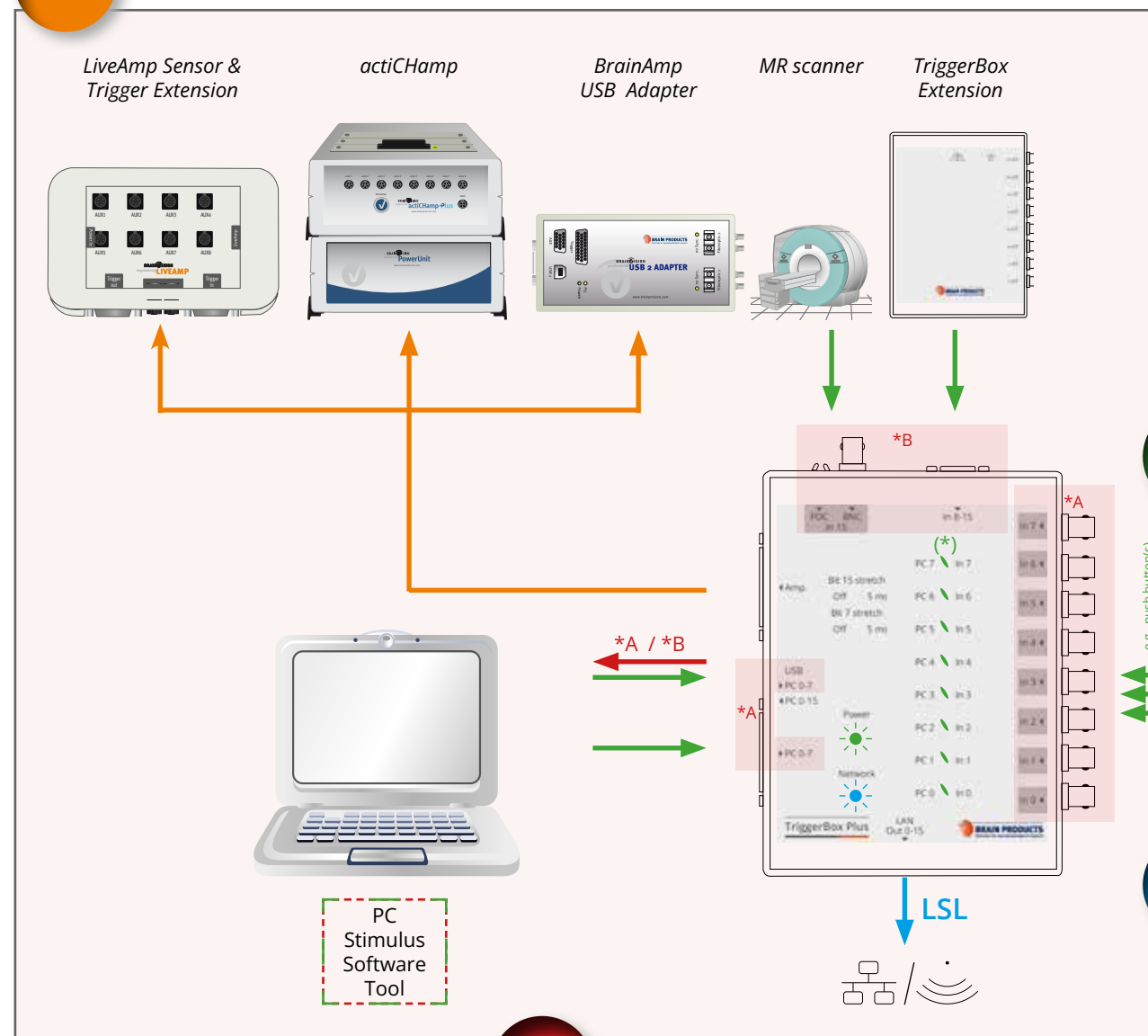
Use the TriggerBox Test IO for Testing

- Verify connection and COM port
- Send Triggers manually or with cyclic output (from 0–255)
- Read inputs depending on settings in Configuration tool



Connect TriggerBox Plus to amplifier:

- Use amplifier-specific trigger cable (8-bit or 16-bit)
- Wireless Trigger possible for LiveAmp with Sensor & Trigger Extension



Connect sources to TriggerBox Plus:

- Flip switches* to choose between BNC or PC (USB or LPT) inputs for bits 0-7
- PC via USB (PC 0-7): set correct COM port and baud rate to 2 000 000 bits/s
- Specific BNC or FOC input for bit 15 (e.g., for MRI scanner triggers)
- D-Sub 9 In 8-15 (e.g. TriggerBox Extension)

Set up network and LabStreamingLayer (LSL) marker stream:

Provide LSL markers to the local network and connect up to 12 clients (for viewing, recording, processing ...)

Ethernet:
Connect LAN Out 0-15 to local network
Configure TriggerBox Plus as required by the local network:
• DHCP server
• DHCP client
• Static IP address

WiFi: Configure TriggerBox Plus as:
• Access Point: select IP address and network details
• Station: provide details of existing network

Lower 8 bits or all 16 bits of Amp output are provided as LSL marker

Note: Do not use the Access Point setting for streaming EEG data over the TriggerBox Plus. This option is only meant as a means to send LSL markers from the TriggerBox Plus to a maximum of 4 computers.

Read to PC via USB

- Read any input to the TriggerBox Plus at the Amp output stage
- Read lower 8 bits (*A) or upper 8 bits (*B):

