NAtA TECHNOLOGIES

Button Pad (2-Hands, 5-buttons)

Operating Instructions

February 12, 2017

Rev. 3

LxPad Instructions

Please read the following instruction BEFORE using the LxPad. Failure to follow the instructions will render the device unusable and will void the warranty.

List of included parts:

1) 5 –Button, 2 - Hand LxPad with 10m cable (larger button tops included)
2) Fiberoptic converter (CON-004) unit
3) USB 2.0 cable
4) Parallel Port / Auxiliary Cable
5) Instructions

Setup instructions

1) Please make sure that the power switch is OFF on the Converter box, in its UP position
2) Place the LxPad inside the MRI room and run the 10m cable through the 1” hole in the wall in to the MRI control room

   **** When running the cable make sure that it is not being kinked or bent on any sharp corner. The cable is a fiberoptic cable it is very fragile and will be damaged if excessive force is applied to it.**

3) Connect the fiberoptic cable to the Converter box with WHITE dot facing up. See Fig 1 and Fig 2. The connector size is 14mm x 12mm x 42mm, and should fit through any standard MRI control room PEN opening.

Fig1: Connector with White Dot Facing UP.

4) Connect the USB 2.0 cable to the Converter box. Plug the other end to your PC or MAC. See figure Fig 2. CON-004 Converter box will now entirely be powered through the USB port. *See clause "7" for more information when using 9V power supply.*
5) If Parallel port interface is required connect the Parallel /Auxiliary cable to the Converter box. See figure Fig 2 for location of the Auxiliary Port.
6) If TTL or Optical trigger is required connect the cable supplied with MRI unit to the Converter box. See figure Fig 2 for port locations.
7) The 9V power supply is optional (not included). If no USB power / communications is necessary the power supply can be used to power the board. In this case the communication will only be through Parallel / Auxiliary cable. Auxiliary cable can be purchased as an option.
8) You can now turn the switch at the front of the Converter to its ON position, by pushing the switch DOWN. Refer to Fig 3.
9) The green LED will turn on in the front. Refer to Fig 3.

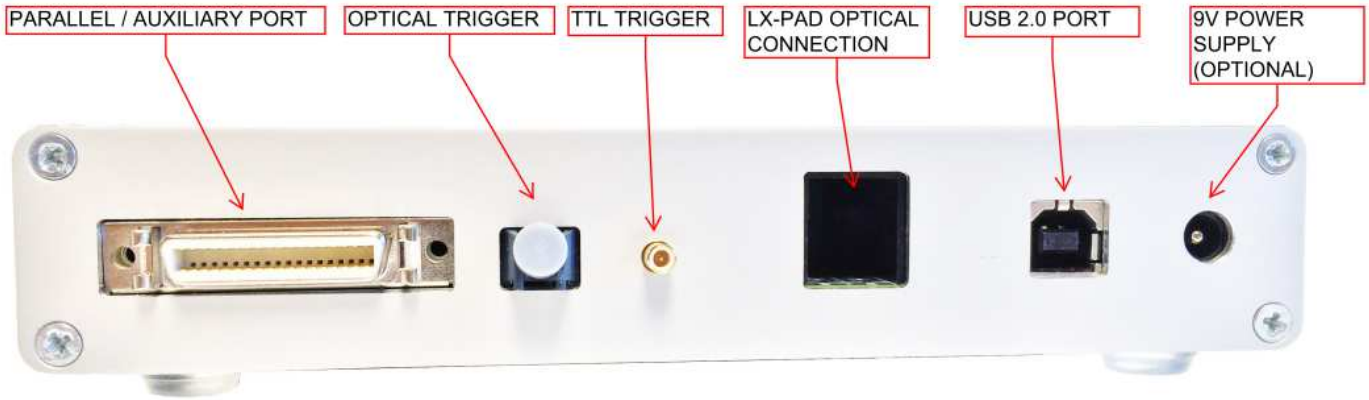

Fig2: Back of the Converter CON-004

10) The LxPad is now fully functional.
11) The buttons correspond to a regular Keyboard numbers "0-4" and "5-9" outputted via USB 2.0. No additional software is required. The TTL signal and Optical triggers will be displayed as letter "T". Driver should install automatically when USB is connected.
12) On the front panel of the converter unit the "red" LED's will flash when any key is pressed. If the LED's flash then the device is working properly. Refer to Fig 3.

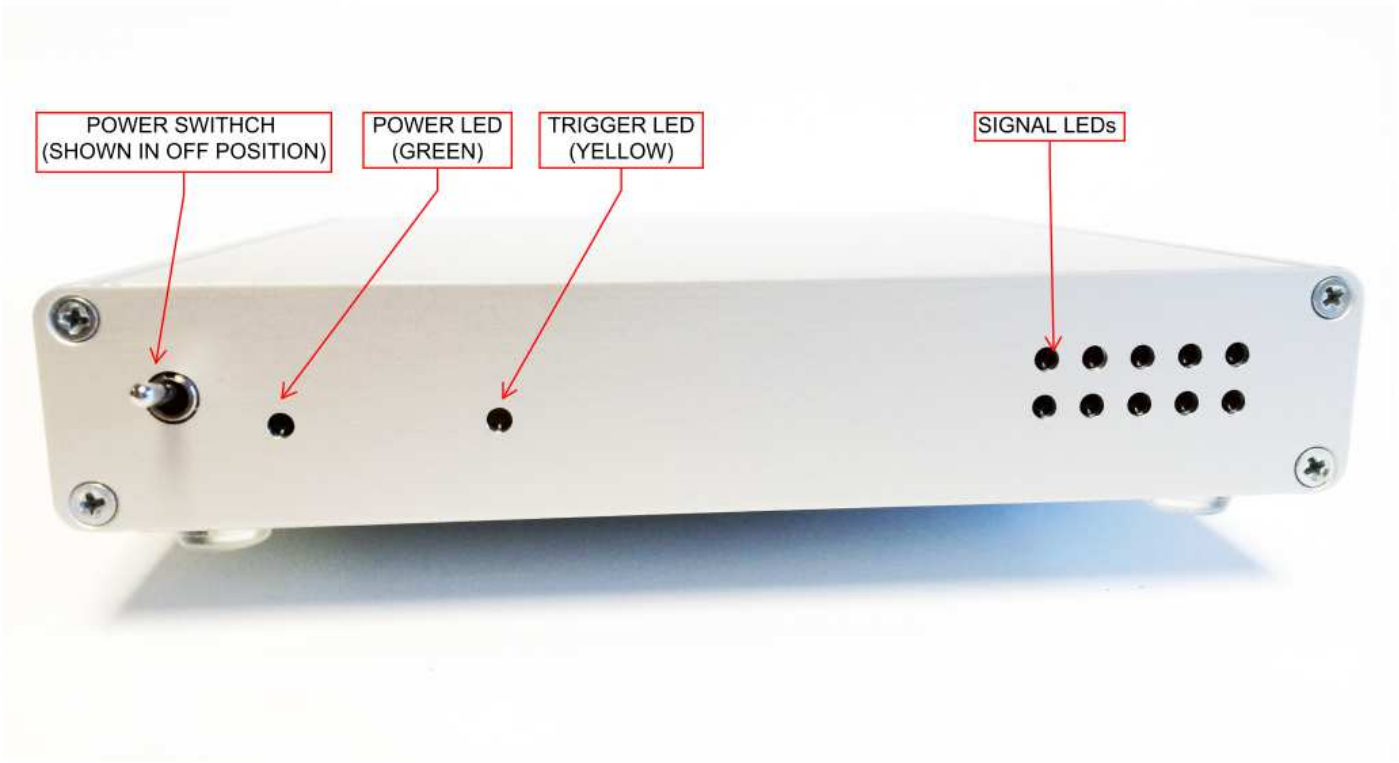

Fig3: Front of the Converter CON-004

IMPORTANT Please read

1) The LxPad is a very unique and fragile device. Only people that have read this set of instructions are to operate it.
2) Every key on the LxPad is custom manufactured and you will need to be careful when applying the pressure on the key. Moderate to low pressure is good. Do not press too hard on the key.
3) Both the button pads and the converter unit have safety stickers. Please do not disassemble the any of the components or it will VOID the warranty.

** If you have any questions regarding the use or the installation of the LxPad please let us know.
engineering@natatech.com

Wrist Brace Adjustment (OPTIONAL)

1) Make sure the subject is sitting down on the MRI bench. Slide the subject's wrist through the LxPad wrist brace.
    a. Note: support the LxPad while the subject is placing his/her hand through the brace.
2) Once the hand is in the brace as shown in Fig. 1, tighten the wrist straps one (1) through three (2) (Fig. 1).

Fig 1: Hand position in the LxPad wrist brace

3) Loosen the plastic nuts one (1) and two (2), see Fig 2. Do not remove the nuts all the way.
4) Slide wrist forward and backward as depicted by the RED arrows in Fig 2.
5) Once the desired position (over the top of the buttons) is found tighten the nuts one (1) and two (2). Do not over tighten the nut.
6) Adjust strap 4, Fig 2.

Note: The Velcro straps can be trimmed if necessary. Do not over tighten the Velcro straps as it may cut hand circulation.

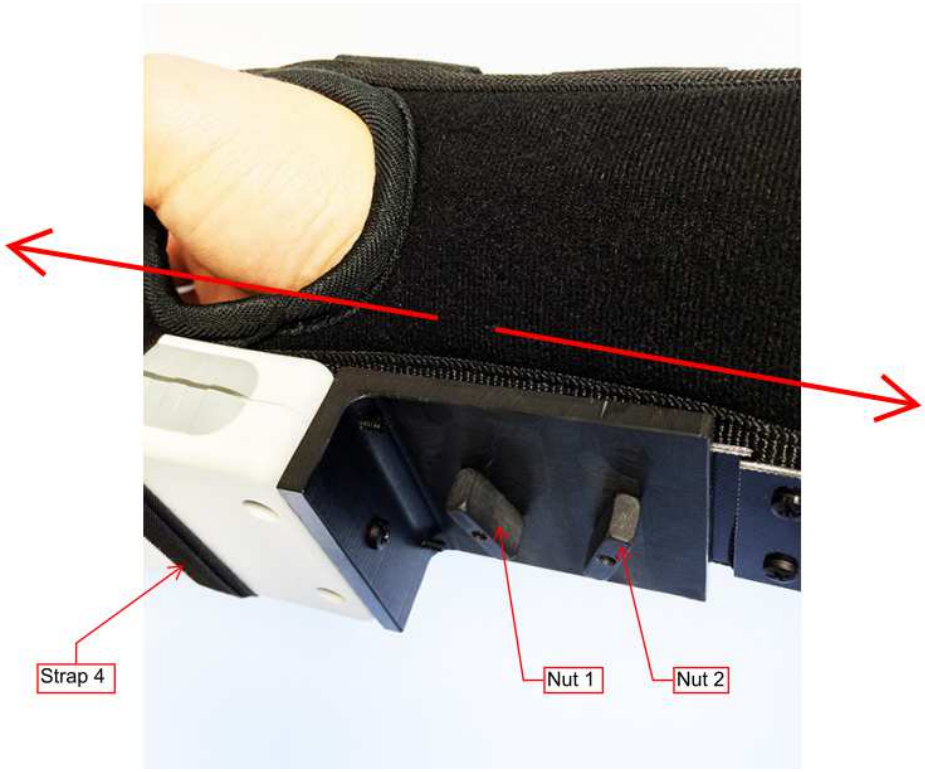

Fig 2: Wrist strap nut adjustment and Adjustment of Strap 4

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To whom it may concern,

RE: MRI compatibility

NATA Technologie's products are completely MRI compatible. Every one of our response devices is manufactured solely from plastics and other non-magnetic materials (i.e fiber optics, PVC, acrylic). Our devices will not interfere with the MRI scanner of any strength (1 Tesla, 3 Tesla, 7 Tesla, etc.).

We hereby certify the above statement is correct.

Sincerely,

Ivan Melnyk, PhD
Managing Director

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