STEP 1

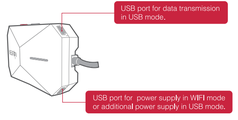
CHECK IF YOU HAVE EVERYTHING

* Product contents may vary according to package type.

STEP 2

USB INTERFACE

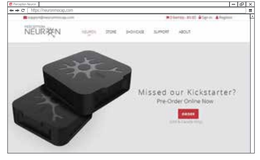
- PERCEPTION NEURON® works in WIFI and USB mode.There are 2 mini USB ports on the Hub.
- For USB mode, use the upper port to link the Hub with your computer for data transmission and power supply. If more than 18 Neurons are used at one time, it is suggested to use the lower port for additional power supply by linking it with a USB power pack.
- For WIFI mode, use the lower USB port ONLY for power supply.



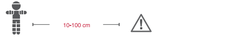
STEP 3

PREPARE YOUR WORKING ENVIRONMENT

- Setup your WIFI router.
- Download and install the AXIS NEURON™ installation package from www.neuronmocap.com.



- Keep Away From Magnetic sources.



Keep 10-100 cm (depending on the strength of the source) away from magnetic sources.

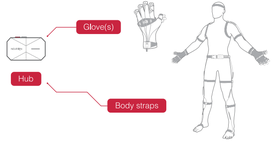
PERCEPTION NEURON® should not be used in an environment with strong magnetic interference. Using the system in such an environment introduces significant errors to the motion capture results. Exposing Neurons to such an environment for an extended period will cause sensor magnetization.

STEP 4

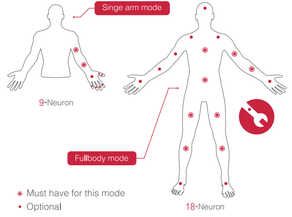
PUT ON THE GLOVE(S) AND / OR BODY STRAPS

- Plug Neurons into the glove(s) and / or body straps.

- Put on the glove(s) and / or body straps.
- Link the Hub with the glove(s) and / or body straps.



- It is suggested to start with modes with less Neurons.



✳ Must have for this mode
• Optional

STEP 5 Option 1

LINK WITH COMPUTER - USB MODE

- Connect the Hub to your computer via the USB data cable.

- Start the AXIS NEURON™ software.

- Connect to the target device.

STEP 5 Option 2

LINK WITH COMPUTER - WIFI MODE

* You only need to perform this connection process once to specify your network settings.

- Connect the Hub to your computer via the USB data cable.

- Start the AXIS NEURON™ software. Click on the Connect icon and setup your WIFI router information.

Continue on next page ▸

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Continued

STEP 5 Option 2

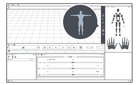
- Unplug the USB data cable and link your Hub with a USB power pack (5V / 2A). You should hear a long beep in 20 seconds which means the Hub is successfully linked with your computer.

- Connect to the target device.

STEP 6

THE FOUR-STEP CALIBRATION

- Click on the Calibration icon.



- Perform the four-step calibration.

- Check your real-time mocap animation.

REFERENCE

THE FOUR-STEP CALIBRATION

- A FOUR-STEP CALIBRATION procedure is needed before the motion capture session.

Steady pose

For Steady pose calibration, it is required to keep all sensors as steady as possible (no special requirement to the posture), Try to sit down, put your hands on a table or even take off the whole set of straps / gloves and put it on the ground if you have difficulty to keep steady during this calibration. You only need to do this calibration once until you re-allocated the Neurons on your body straps / gloves as this calibration removes the bias error bring by the connection between Neurons and the socket.

A pose

For A pose calibration, it is required to stand straight, make sure your arms are pointing down and your palms are facing to your body. The feet should be parallel to each other.

T pose

For T pose calibration, it is required to stand straight, make sure your arms are in the same height and your palms are facing down, The feet should be parallel to each other. If you are using your gloves with finger straps, make sure your thumb and other four fingers are in the right posture as shown in the diagram.

S pose

For S pose calibration, crouching down, make sure your legs are not open or close, The feet should be parallel to each other. Make sure your arms are in the same height and the palms are facing down.

REFERENCE

SHUTTER FUNCTIONS (BETA)

- Click the Shutter icon in AXIS NEURON™ to toggle on/off the Shutter functions.
- Press the RED button to start / stop recording.
- Press the R button for calibration procedures.
- Press the L button for posture / position zero out.

REFERENCE

NEURON LED STATUS

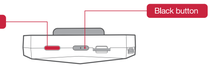
1Hz Flashing	Connection between the Neuron and the sensor socket is not good
Breathing	Standby mode
20Hz Flashing	Working mode
0.3 Hz Slow flashing	Firmware update mode
Other status	Neuron malfunctioned

HUB LED STATUS

5Hz Flashing	Connecting to WIFI or server PC
Breathing	Standby mode
20Hz Flashing	Working mode
Quick flash 3 times and off for 3s	Sleeping mode
0.3 Hz Slow flashing	Firmware update mode
Other status	Hub malfunctioned

REFERENCE

BUTTON FUNCTION DEFINITION (BETA)



Button / Working scenario	WIFI Connection (BETA)	Off-line mocap (BETA)
Red button	WPS (WIFI Protected Setup) / QSS (Quick Security Setup) pairing with router	Start / Stop recording
Black button	Pairing with server computer	Calibration

PERCEPTION NEURON

QUICK START GUIDE

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