

Materials List for:

Characterization of the Sense of Agency over the Actions of Neural-machine Interface-operated Prostheses

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Materials

Name	Company	Catalog Number	Comments
LabVIEW 2015, Service Pack 1, Version 15.0.1f2 64-bit	National Instruments, Austin, TX, USA	Full or Pro Version	We wrote custom software in LabVIEW to coordinate virtual prosthesis control with kinesthetic feedback as well as to present experimental conditions and record data.
8-Slot, USB CompactDAQ Chassis	National Instruments, Austin, TX, USA	cDAQ-9178	
±60 V, 800 kS/s, 12-Bit, 8-Channel C Series Voltage Input Module	National Instruments, Austin, TX, USA	NI-9221	
100 kS/s/ch Simultaneous, ±10 V, 4-Channel C Series Voltage Output Module	National Instruments, Austin, TX, USA	NI-9263	
Custom Wearable Kinesthetic Tactor	HDT Global, Solon, OH, USA	N/A	This item was custom made. Other methods of delivering kinesthetic feedback are acceptable as long as the participant feels the sensation of the hand moving in real-time with the movements of the virtual hand.
MuJoCo Physics Engine, HAPTIX Version	Roboti LLC, Redmond, WA, USA	mjhaptix150	Newer versions of MuJoCo should be acceptable as well. We used the MPL Gripper Model.
Myobock Electrodes, powered by Otto Bock EnergyPack in MyoBoy Battery Receptacle	Ottobock, Duderstadt, Germany	electrodes: 13E200=60 battery: 757B21 battery receptacle: 757Z191=2	Any setup that provides an amplified, filtered, and rectified EMG or neural control signal could be used.