

Materials List for:

Multifunctional Setup for Studying Human Motor Control Using Transcranial Magnetic Stimulation, Electromyography, Motion Capture, and Virtual Reality

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Materials

Name	Company	Catalog Number	Comments
Transcranial magnetic stimulator	Magstim	N/A	TMS stimulator and coils
Impulse X2	PhaseSpace	N/A	Motion capture system
MA300 Advanced Multi-Channel EMG System	Motion Lab Systems	MA300-28	EMG pre-amplifier and amplifier
Norotrode EMG electrodes	Myotronics	N/A	EMG electrodes
BNC-2111 Single-Ended, Shielded BNC Connector Block	National Instruments	779347-01	BNC Connector Block
NI PXI-1033 5-Slot PXI Chassis with Integrated MXI-Express Controller	National Instruments	779757-01	DAQ chassis
NI PXI-6254 16-Bit, 1 MS/s (Multichannel), 1.25 MS/s (1-Channel), 32 Analog Inputs	National Instruments	779118-01	DAQ card
SHC68-68-EPM Cable (2m)	National Instruments	192061-02	Shielded cable
DK1 or DK2	Oculus VR	N/A	Oculus Rift headset
Vizard 5 Lite	WorldViz	N/A	Virtual reality software
C1 and C2 capacitors	varied	N/A	Adjust values to suit
R1 and R2 resistors	varied	N/A	Adjust values to suit
CD4011 NAND gate	varied	N/A	NAND gate
2N2222 transistor	varied	N/A	Transistor
NE555 timer circuit	varied	N/A	Timer circuit
DB25 and USB connectors	varied	N/A	parallel and USB connectors