K4 allows pattern recognition command of Motion Control Utah Arm 3+ elbow flexion/extension with optional pronation/supination of powered wrists and open/close operation of prosthetic hands. Pattern recognition command of multifunction grips is not included.

PART 1: PHYSICAL CONNECTIONS

**Motion Control Utah Hybrid Arm 3+**

![Coapt Cable Connection](connection_image)

**Part 2: Software Settings**

### Elbow

**Motion Control Utah Arm 3+**

- **U3 Elbow User Choices**
  - Elbow Polarity: A

- **Dual-Channel Elbow Settings**
  - Quick, Channel A EMG Gain: 5.00, Channel B EMG Gain: 5.00, Channel A Threshold: 5.00, Channel B Threshold: 5.00

- **Elbow Lock/Unlock**
  - Lock Override: Off, Flex/Ext After Braking: On, Switch Rate A: 25.00, Switch Rate B: 25.00, Lock Time: 00.10, Switch Window: 00.20

- **U3 Elbow Settings**
  - Seconds Until Relaxed: 0.05, A + B Freeswing Level: 0.00

### Wrists

**OttoBock Electric Wrist Rotator (No Myorotronic) or Motion Control Standard Wrist Rotator (No ProControl)**

- **Wrist Set Up**
  - Electric Wrist Enabled: Yes, Wrist Direction: A

- **Hand Set Up**
  - Input Type: EMG, Hand Filtering: Quick, Channel: Dual, Control: Differential, Hand Direction: A

- **Thresholds/Outputs**
  - A: 15, B: 15

- **Input Gains**
  - A: 5, B: 5

- **Relax Delay**
  - Relax Timer: 0.1

- **Switch Control**
  - Switch Rates A: 75, Switch Rates B: 75, Switch Window: 0.1, Fast Access: On, Co-Contraction: Off, Auto-Switch Back: No

### Hands

**I-Limb, Taska, VincentEvolution3, Psyonic Ability Hand, Covvi Hand**

Ensure hand settings are the factory defaults.

**OttoBock SensorHand, MyoHand VarIPlus, System Electric Greifer, or System Electric Hand**

Ensure ‘control mode’/‘program’ 1

**OttoBock Bionic**

- Control Strategy: Dual Site
- Open / Close Strategy: Electrodes: A,B
- Control Options: Electrodes
- Control Response: Proportional

In Electrode Screen:

- Channel 1 “Blue” threshold: 10%
- Channel 1 “Red” threshold: 90%
- Channel 2 “Blue” threshold: 10%
- Channel 2 “Red” threshold: 90%

Remember to press “Send to Hand” after making any changes.

**Motion Control ProHand, PROETD/ETD2**

- **Hand Set Up**
  - Input Type: EMG
  - Hand Filtering: Quick
  - Channel: Dual
  - Conatrol: Differential
  - Hand Direction: A

- **Thresholds/Outputs**
  - A: 15
  - B: 15

- **Input Gains**
  - A: 5
  - B: 5