Accuracy of repetition counting - The device should be tested to report as many repetitions as are being performed. We need to know the degree of error of our data.

Goal: The device should count repetitions performed with 100% accuracy ideally.

External factors: The device should be properly calibrated to recognize when a full range of motion repetition has occurred.

Equipment: Hand device with external bank, Power Source, Separate device connected to the internet and connected to the device.

- 1. Plug the device into a 120V AC outlet.
- 2. Turn the device on and begin basic squeeze exercises, where fingertips must touch, for 10 seconds.
- 3. While the device records repetitions, manually count how many repetitions occur until the time is over.
- 4. Compare the number of repetitions the device reports to the number of repetitions observed.

Individual controllability - Each finger should be able to operate independently of any other finger.

Goal: Verify that each finger is independently programmable and movable.

External factors: Individual anatomy and flexibility of those being tested.

Equipment: Hand device with external bank, Power Source, Separate device connected to the internet and connected to the device.

- 1. Plug the device into a 120V AC outlet.
- 2. Turn the device on and verify each finger individually can be pulled in individually.
- 3. Verify each finger individually can be extended back out.

Resting state - The device should return to a resting state after the completion of each exercise.

Goal: The device should be verified to return to a neutral state after each exercise is completed.

External factors: Someone's anatomy or flexibility may prevent a typical "neutral" resting state.

Equipment: Hand device with external bank, Power Source, Separate device connected to the internet and connected to the device.

- 1. Plug the device into a 120V AC outlet.
- 2. Turn the device on and begin an exercise.
- 3. After completion of the exercise, verify that the device has returned to its neutral resting state.