App Guide Running 1 (Step Rate)

SageMotion
Wearable Biofeedback System



Table of Contents

Components	(page 1)	
Wirelessly Connect to Computer or Cellphone	(page 2)	
Running 1 App (Step Rate)	(page 3)	

App Guide: Running 1 (Step Rate)

Information in this document is subject to change without notice.

Components





Hub

Nodes (8x)



Battery



Node Straps: Medium (8x), Short (4x), Long (2x)



Cable A (10x)
-Connect Hub to Battery
-Charge Nodes & Battery



Cable B (optional use)
-Connect Hub to Computer



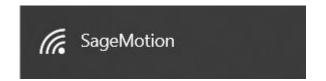
Wirelessly Connect to Computer or Cellphone

1) Connect Cable A to Battery and to Hub





2) On Computer/Cellphone, Connect to Wi-Fi: "SageMotion"



Note 1: Need to wait for up to 1 minute for "SageMotion" to appear in Wi-Fi list. If it doesn't appear, try turning the Wi-Fi off and then on again on the computer/cellphone.

Note 2: Hub is connected after clicking "Connect" even if in Windows it shows "Connecting" or "No internet, open".

3) On Computer/Cellphone, in Chrome Address Bar, Go To http://192.168.12.1



[Note] If Computer Doesn't Have Wi-Fi: plug in Cable B to the Hub and to the ethernet port of your computer, then in chrome address bar, go to http://192.168.137.1

Running 1 App

The purpose of the Running 1 App is to record, analyze, and provide feedback for Step Rate while subjects perform running activities.

1) Turn on 3 Nodes

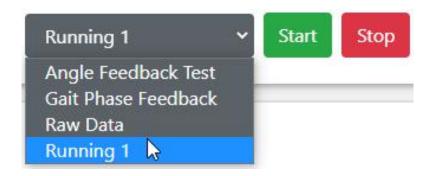


Slide switch toward middle to turn node on



Green light will blink after the node is on and running

2) Select "Running 1" App



3) Click "Search"

Node List



Connect

4) Configure 1 Sensor Nodes and 2 Feedback Nodes as Shown Below:



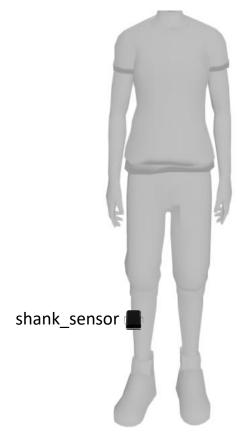
5) Click "Connect"



6) "Ready to collect data" Will Appear after Node Connection is Complete



7) Thread Straps through Nodes and Attach at Locations Shown Below:



[Note] feedback_high and feedback_low nodes can be placed at any location

How to Thread Straps







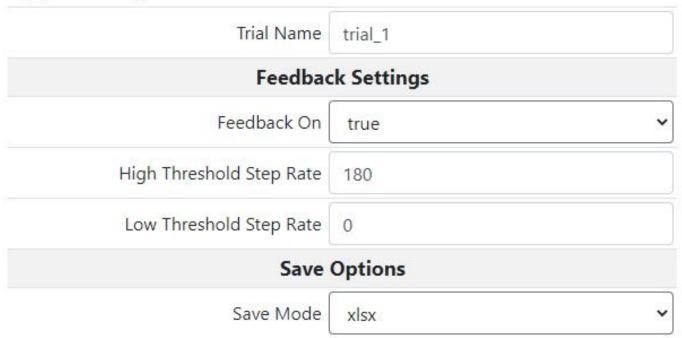


8) Click "Blink" for each Node to Confirm Correct Locations (red LED for given node blinks 3 times on click)

Type	Position	MAC			
sensor	shank	88:6B:0F:E1:D8:A6	.il	•	Blink
feedback	high	88:6B:0F:E1:D8:96	1	.	Blink
feedback	low	88:6B:0F:E1:D8:9F	all)·	Blink

9) In App Configuration, Enter Settings (Example Below)

App Configuration



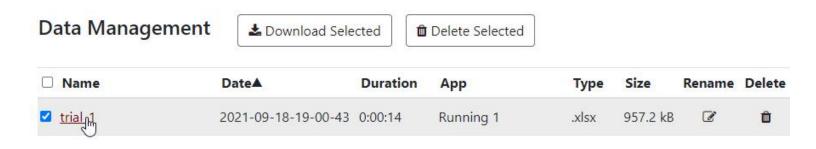
10) Click "Start" to Start Running the App



11) After the Trial is Finished, Click "Stop"



12) After Clicking "Stop", a File from that Trial will Appear under Download Data. Click the File (e.g. trial_1) to Download it to the Computer or Phone.



Description of Data in Downloaded File

time (sec): time since trial start

StepRate: step during runing

Feedback_high: feedback status for Feedback_high node. 0 is "feedback off"; 1 is "feedback on"

Feedback low: feedback status for Feedback low node. 0 is "feedback off"; 1 is "feedback on"

SensorIndex 1: index of raw sensor data

AccelX/Y/Z_1 (m/s^2): raw acceleration data

GyroX/Y/Z_1 (deg/s): raw gyroscope data

MagX/Y/Z_1 (μT): raw magnetometer data

Quat1/2/3/4_1: quaternion data

Sampletime_1: timestamp of the sensor

Package_1: package number of the sensor