

- High fidelity (up to 16 kHz)
- Compact and lightweight
- Modular and scalable cables



# SENTIMO delivers precision quality and flexible measurement options with unrivaled abilities.

## **The Sentimo Sensor System**

## Hardware Features

- Up to 16 kHz EMG samping rate
- 24-bit internal resolution
- ±9.4 mV EMG input range
- Baseline noise < 1 uV
- Shielded cables for artifact reduction
- Variable channel count (1-4 channels per device)

- Integrated 9-axis IMU
- Lossless data compression
- Up to 20 channels stream
- · 4-8 hour battery life
- Small form factor (9.5g)
- Wireless BLE communication
- Modular lead connection (pinch or DIN port)

## **Integrated Movement Technology**

SENTIMO allows users to collect biosignals in clinical, laboratory, and real-world settings



**EMG Analsysis** 



**Biomechanics Assessment** 



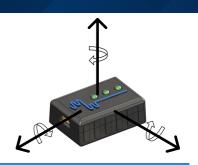
Biofeedback Training



**Prosthesis Control** 

# The EMGenius software features an easy-to-use toolset for visualizing and collecting kinesiological data.

## Real-Time Data Acquisition and Visualization



## Live EMG & Motion Data Streaming

View muscle activity and motion data in real-time

## **High-Resolution Signal Processing**

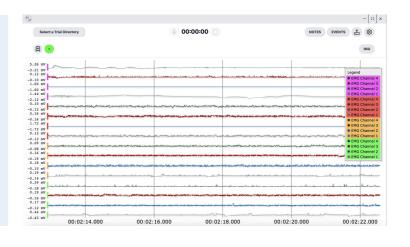
Advanced filtering and custom analytics

## **Customizable Display**

Adjust scaling, channel display, and IMU 2D/3D plotting

## **Comprehensive Software**

- Auto-connect and stored settings
- Configurable filtering
- Internal and external triggers
- Real-time visualization
- Integrated data review
- · Synchronized across devices



## **Technical Specifications**

#### **Portable Amplifier Unit**

- 1 to 4 channels per unit
- 4 devices on a bluetooth network
- 21.5 mm x 31.5 mm x 11.5 mm
- 9.5 g weight

### **Software Capability**

- 16+ channel emg and 4 channel IMU display
- Flag and event placement
- Configurable auto-export
- · Lossless data reception
- Custom filter and computation
- · Restful API with web socket

### **Trigger Unit**

- BNC Connector Input
- · Variable de-bounce time
- · USB compliant output

#### **Cary Case**

 Custom carry case with onboard power bank (5 full charge cycles)

#### **EMG Specifications**

- Up to 16 kHz sample rate
- >65 db SNR
- 100db CMRR
- 9.375 mV dynamic Range
- · In-software adjustable gain
- 24-bit resolution
- Simultaneous sampling across units

#### **IMU Specifications**

- 150 Hz sample rate
- · Quaternions or RPY
- 2D/3D visualization

#### **Power**

- 6-8 hour battery life
- Full recharge in 20 minutes

#### **Material**

 Medical grade polycarbonate shell

#### **Communication**

- 2.4 GHz wireless and Bluetooth Low Energy
- 30 m wireless transmission range