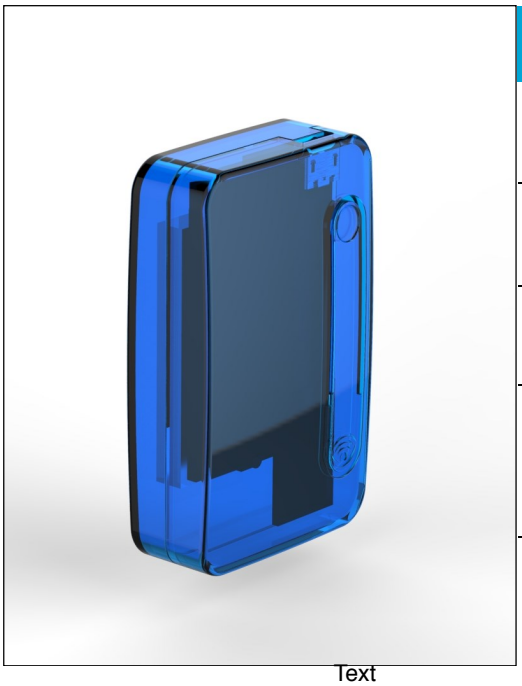
SABEL SENSE

enabling technologies for sport & health

Wireless MEMS Inertial Sensor

SABEL Sense is a wearable inertial sensor developed within the laboratory. The sensor collects data from digital MEMS inertial sensors (*accelerometer, gyroscope*) and a digital magnetometer.



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Users have the freedom to move outside the lab environment both indoors and outdoors thanks to data being stored locally on the SABEL Sense sensor, and controlled wirelessly from you PC using a comprehensive MATLAB Toolkit. This allows for easy control of multiple sensors, providing no restrictions during data capture.

The flexibility of the Sensor allows it to be used in many applications, such as: Rehabilitation, Human movement / Biomechanical studies, etc.

The Sensor also has the flexibility to be customised to suit specific users requirements. With all development done in-house, modifications and advice can be provided quickly and accurately.

Specifications

Dimensions

55mm x 30mm x 13mm (L x W x H)

Weight

23g

Wireless

ISM 2.4GHz

Power

High density Lithium polymer battery

~3Hrs of continuous use

Sensors

3D Accelerometer

3D Gyroscope

3D Magnetometer (Digital compass)

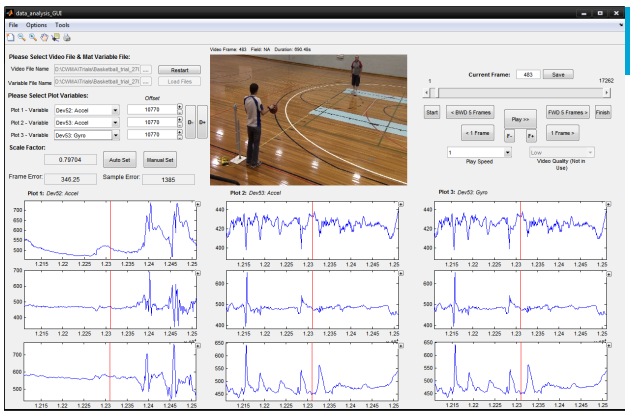
Temperature

Storage

8GB Micro SD card

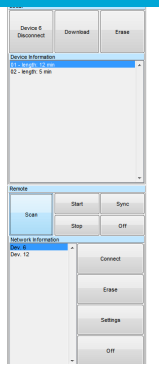
Flexibility

Expandable daughter board



Comprehensive MATLAB Toolkit

- Wireless control of sensors
- Sensor information
- Sensor -> Sensor synchronisation
- Sensor -> Video synchronisation
- Analysis of sensor data
- Real-Time streaming
- Sensor calibration



www.sabellabs.com