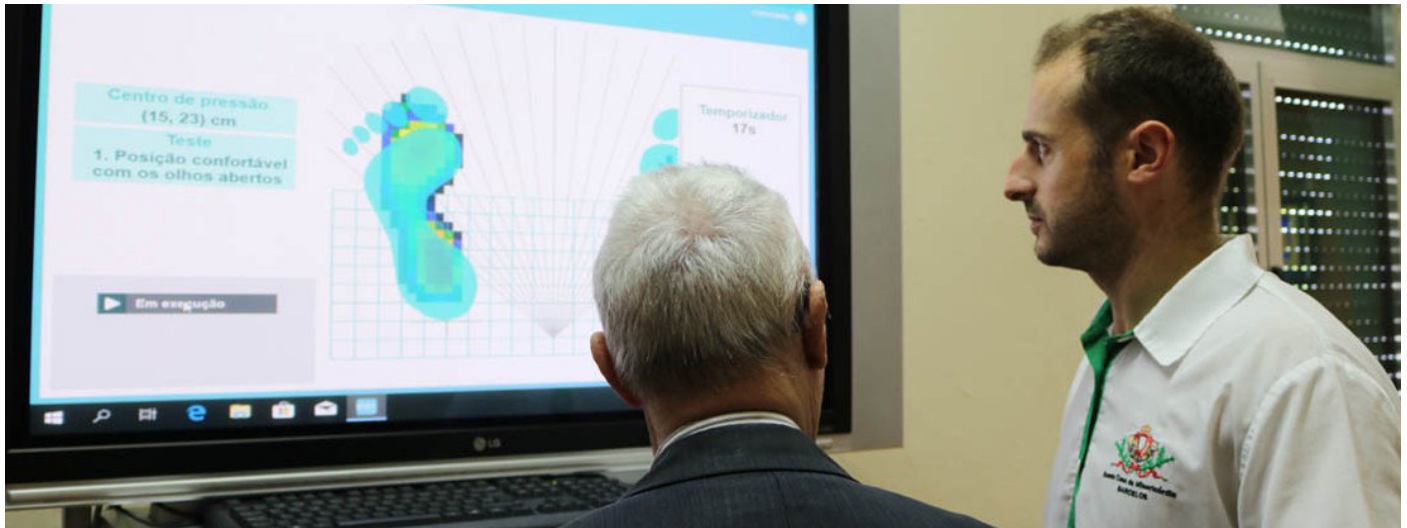




# PHYSIOSENSING



## CONTEXT

Coordinative abilities are essential conditions for the general performance of the body. An unequal distribution of the body's weight onto the legs can lead to postural deformity and increased wear of joints.

Due to the complex interactions between sensory, motor and central processes involved in posture and balance, the use of various combinations of visual and surface support stimuli and parameters is often required.

Sometimes it is also necessary to study the balance of weights in the plantar surface of the feet both at rest and while walking. To know these parameters, a baropodometry is performed

## APPLICATIONS

- **EVALUATING POSTURAL BALANCE AND THE DISTRIBUTION OF NATURAL LOADS**
- **EVALUATING PLANTAR PRESSURE**
- **OBJECTIFYING CLINICAL PRACTISE**
- **PERSONALISED TRAINING BASED ON STABILITY AND POSTURE CORRECTION**

## TECHNOLOGY SUMMARY

PhysioSensing is a baropodometry portable platform that employs the use of visual bio-feedback technology and is part of a new generation of products designed for physical rehabilitation focused on balance a pressure measurement in order to improve the proprioception.

## MAIN CHARACTERISTICS

PHYSIOSENSING has the advantage of being somewhere between platforms that are simply fun and those that are too focused on a quantified evaluation, "with a large number of numbers but without any immediate interpretation".

The product is easy to use and its light weight makes it easy to carry. In addition, "the interface is simple in the main menu" and the installation of the software is quick and easy. They consider it very likely that they can use it daily without losing time, including cases in which professionals may require mobility in relation to their work.



# PHYSIOSENSING

## TECHNICAL CHARACTERISTICS

<b>CE</b>	Medical Device Class I
<b>SIZE</b>	61 x 58 cm
<b>THICKNESS</b>	1 cm
<b>WEIGHT</b>	4 kg
<b>ACTIVE SURFACE</b>	40 x 40 cm
<b>SENSORS NUMBER</b>	1600
<b>SENSOR SIZE</b>	1 x 1 cm
<b>SENSOR TYPE</b>	Resistive
<b>SENSOR LIFE TIME</b>	more than 1 000 000 actuations
<b>MAXIMUM PRESSURE (EACH SENSOR)</b>	100 N/cm <sup>2</sup>
<b>TEMPERATURE RANGE</b>	from 0°C to 60°C
<b>CONNECTION/ POWER</b>	USB
<b>FREQUENCY</b>	100 Hz ~100 acquisitions/second
<b>OTHER</b>	Portable



## ORGANIZATION PROFILE

**sensingfu+ure**

a greater step

This technology has been developed by Sensing Future a Portuguese company focused on conceiving, developing and implementing technological medical devices in a unique synergy between Engineering and Health, created by highly experienced professionals.

## KEYWORDS

- BAROPODOMETRY
- STABILOMETRY
- POSTUROGRAPHY
- STATIC AND DYNAMIC ANALYSIS
- BALANCE TRAINING
- VESTIBULAR REHABILITATION
- PHYSICAL REHABILITATION

## CONTACT INFORMATION

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