

Actual size of unit image



# WINSHOE

## Wireless embedded sensor system

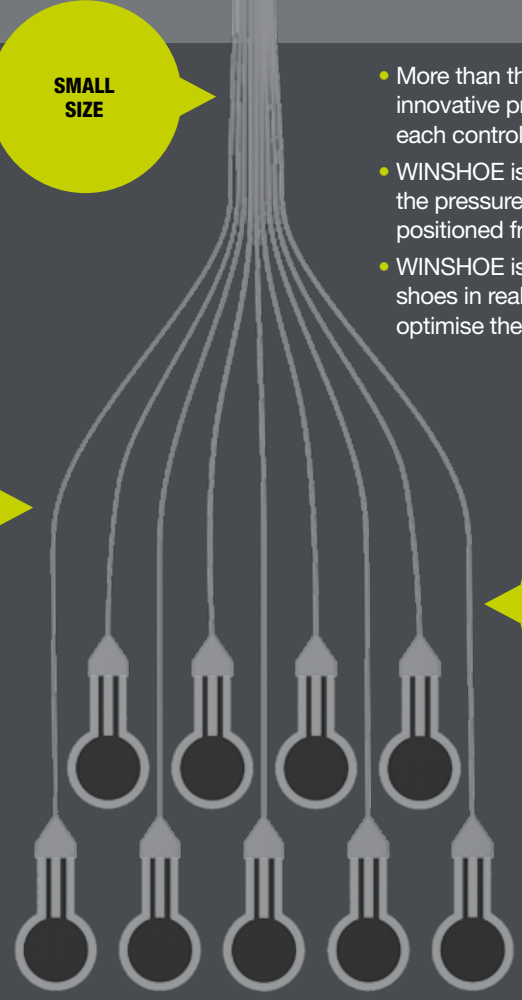
The best-performing in-shoe pressure analysis solution on the market enabling the most realistic assessment of foot pressures.

SMALL SIZE

- More than three years' development time was required to design this innovative product consisting of two ultra-lightweight units (50 g), each controlling nine ultra-thin, calibrated sensors.
- WINSHOE is the ideal technological solution for directly analysing the pressure on the targeted zones by allowing the sensors to be positioned freely on the foot or sole.
- WINSHOE is designed to assess the effect of orthoses/orthopaedic shoes in real conditions (in the medical setting or elsewhere) to optimise the effectiveness of them.

CAN BE ADAPTED TO ALL SHOE SIZES

NINE INDEPENDENT SENSORS



# WINSHOE



Technical characteristics	
Unit dimensions	65 x 46,5 x 18,3 mm
Unit weight	50 g
Sensor technology	calibrated HD resistive sensor
Number of sensors	9 sensors per unit
Sensor active surface area	12 mm Ø
Sensor thickness	0,5 mm
Min/Max pressure per sensor	0,1 kgF to 8 kgF
Guaranteed number of uses	> 1,000,000
Acquisition frequency	100 images/second
PC/unit interface	Bluetooth®
Maximum acquisition time	5 hours
Charging method	Mains/USB
Required Operating System	Windows Vista, 7, 8
Packaging	Transport case

### The complete case includes:

- 2 units
- 2 sets of sensors
- 2 USB cables
- Mains / USB x2 adapter
- Bluetooth® adapter (for computers without built-in Bluetooth®)
- Operating software
- Manual

## Medicapteurs, European leader for electronic podometry

**More than 30 years' experience** designing and manufacturing equipment for podology, posturology and biomechanics

**A comprehensive, upgradeable** range of measurement, diagnosis and manufacturing-aid devices

**Acknowledged quality and reliability** CE certification for medical devices per Directive 93/42 Class 1m (DEKRA)

**Partner to foot** sole and shoe professionals

**A company** born from its close ties with the world of research and **high technology** (LAAS / CNRS)

**More than 10,000 customers equipped**

**Worldwide** reputation and presence (Europe, United States, Asia...)

### Quality management

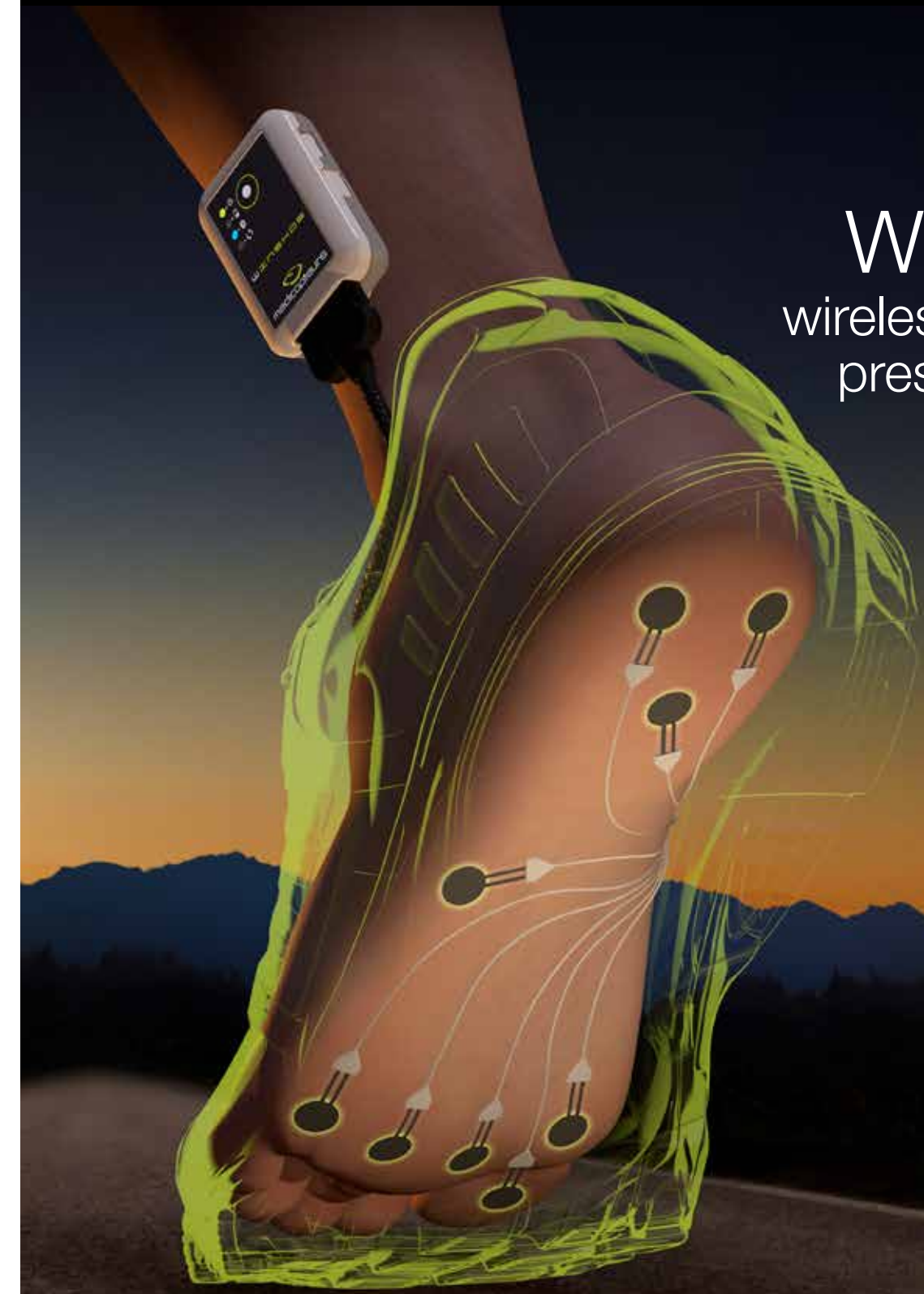
**Certified conform** with directive 93 / 42 / CEE relative to medical devices



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31130 BALMA - France

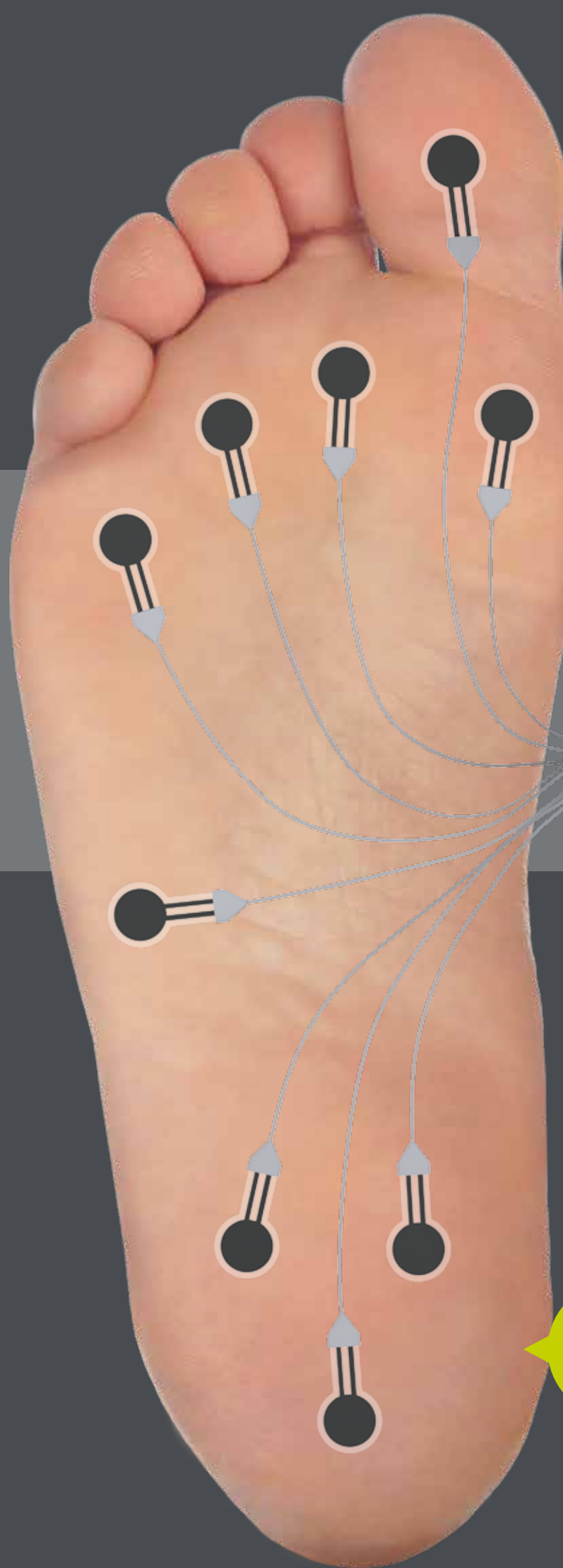
tél. +33 (0) 562 571 571 - fax +33 (0) 562 577 468  
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incOnitO WINSHOE / 03-2014 Crédits photos : Thinkstock



# WINSHOE

wireless embedded pressure sensors



## Light, high-performance and easy-to-use unit

- 100 Hz acquisition frequency
- Automatic synchronisation of the two units
- Fast recharging via USB (90 min.) lasts for 5 hours
- Simple clip attachment to shoelaces or strap

CE CERTIFIED Medical device

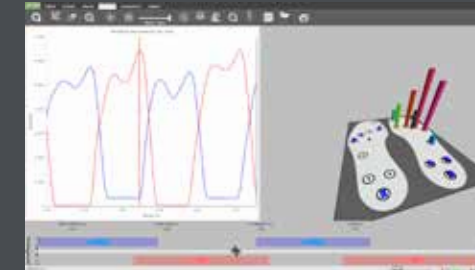
## High-precision pressure sensors

- Nine ultra-thin, calibrated sensors
- Free positioning
- Guaranteed for 1 million uses\*  
\*validated on test bench

MAXIMUM MEASURED PRESSURE 8 kg/cm<sup>2</sup>



Patient Sheet



Step recognition

## WINSHOE

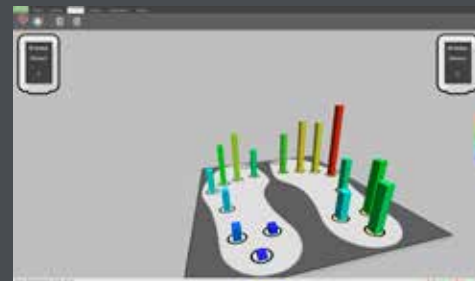
### Simple, intuitive software

#### Acquisitions

- Real-time 3D acquisition and display
- Ambulatory downloading of recorded data



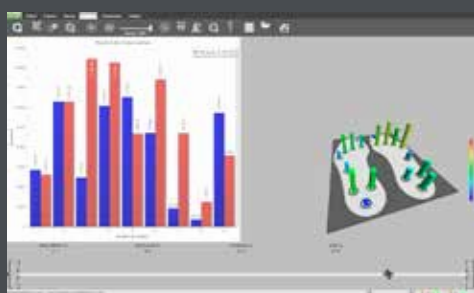
Parameter setting assistant



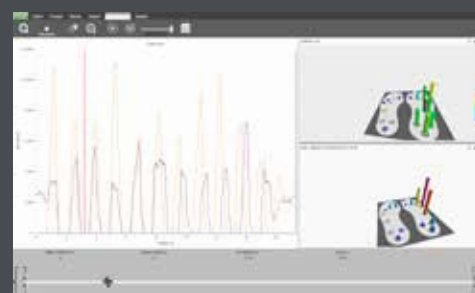
Recording mode

#### Parameter setting

- Patient sheet and database compatible and shared with all Medicapteurs software
- Intuitive creation and saving of digital sensor positioning models
- Sensor positioning assistant using webcam



Detailed analysis



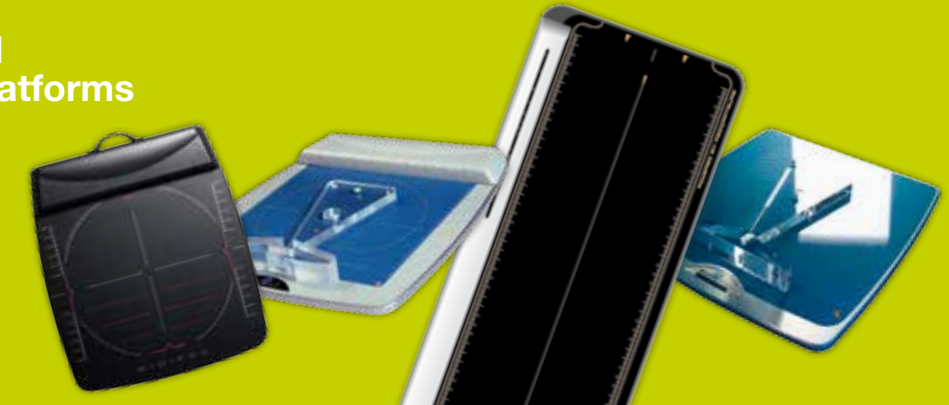
Comparison of 2 acquisitions

#### Analysis

- Detailed acquisition analysis: displays the pressures, activation times and each of the sensors' impulses
- Right foot / Left foot comparison
- Sensor barycentre
- Step detection assistant
- Comparison of sensor values between several recordings
- Report editing

## Winshoe can be used with Medicapteurs platforms

If you already have a Medicapteurs product, WINSHOE's functions and ease-of-use will give you the additional measurements you need to establish finer diagnoses and more effective treatments.



## WINSHOE

### Varied, extensive applications

WINSHOE is designed for studying foot pressures. It is the ideal partner for facilitating diagnosis, correcting and improving the gait of many patients and optimising sporting performance.



- Objectively assess the impact of orthoses/orthopaedic shoes
- Correct postural problems
- Help prevent the risk of diabetic ulcers
- Adapt prostheses and monitor the rehabilitation of equipped patients
- Improve sportsmen's performance by adapting training
- Evaluate locomotor disorders

## Great freedom of use

Once the patient has been equipped and the software configured, the pressure values are either transmitted by Bluetooth® to the PC (in real time), or saved to each unit's internal memory (acquisition possible without a computer).

