SENSORIZE
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FreeSense®

Motion Measured Wireless

DESCRIPTION

FreeSense is a totally wireless inertial measurement instrument. Thanks to its characteristics, it is the ideal solution for monitoring movement in every context: biomechanics, rehabilitation, sports, ergonomics, automotive, aviation, etc.
FreeSense is totally wireless, light and compact; it measures 3D linear accelerations, 3D angular velocities and GPS coordinates (optional module). The bluetooth transmission provides real-time data curves directly on the computer monitor. Data can be also collected without any PC; FreeSense contains a long-life rechargeable battery and a memory card that can store huge quantity of data.
FreeSense software is very intuitive and permits data collection and organization, hardware unit configuration, as well as data export in table format for further analysis.

CHARACTERISTICS

Accuracy

3D linear accelerations
3D angular velocity
longitude & latitude

Flexibility

change data acquisition sampling frequency
select sensor measurement full-scale range
configure data acquisition duration

Simplicity

start / stop button
software with user-friendly interface
USB data transfer

Fields of use

human/animal biomechanics and rehabilitation
sports, ergonomics and vibration analysis
automotive and aviation

TECHNICAL SPECIFICATIONS

Size & weight

Height	8.79 cm (3.46 inches)
Width	5.14 cm (2.02 inches)
Depth	2.47 cm (0.97 inches)
Weight	93 g (3.3 ounces)

External buttons & controls

Menu
Navigation buttons
Usage modality
Personalized shortcut
Led state indicator

Internal hardware

OLED b/w 128x128 points display
3D accelerometer (full-scale range ±2g, ±6g)
3D gyroscope (full-scale range ±500°/s)
GPS receiver (optional module)
Bluetooth wireless transmission module
microSD memory card

Power & battery

Battery	Rechargeable Li-ion 1900 mAh
Power charger	Input 100-240 V
	Output 5.3 V

In the box

FreeSense hardware unit
FreeSense software
Bluetooth adapter
Sensorize USB memory stick
fixation clip
Power charger
USB connection cable
Documentation

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