

TECHNICAL FEATURES

Dimensions: 68X48X15 mm

Weight: 16g

PC connection: Bluetooth

Power supply: Lithium battery

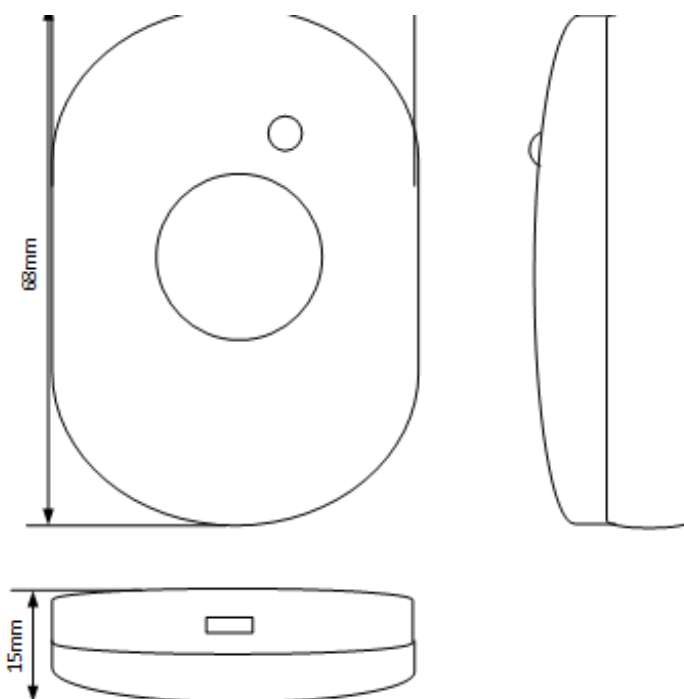
USB connector

ACCESSORIES INCLUDED

Transportation houses

Bands for patient

USB cable



MINIMUM SYSTEM CONFIGURATION

Microsoft Windows 7 - 8 - 10

Intel Core i3 GB PC

4GB memory

HD 160 GB

USB ports: USB 2.0

DVD RW

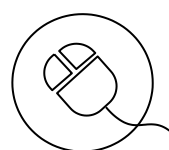
17 "screen

250 GB BackUp Disk

Bluetooth connection

PERIPHERALS

A4 color printer (Laser or Inkjet)



SERVICES

Remote assistance with broadband connection (ADSL minimum required speed 7Mbps)

Teleconsulence with Skype.



MICROLAB

Via P. Colombo, 3
20871 Vimercate (MB) - ITALY
Tel. +39 0396080924 - +39 0396851488
segreteria@avmicrolab.it
www.avmicrolab.it
www.bioposturalsystem.it



SySMotion®

By Microlab di A. M. Vannella

Inertial System for the measurement of the ROM

SYSMOTION®

Inertial System for the measurement of the ROM

The SysMotion, is a new and innovative system of units with sensors applied on the human body and connected via Bluetooth to the Personal Computer. The basic unit contains a 10-axis accelerometer, (3-axis accelerometer, 3-axis magnetic, 3-axis gyroscope, one pressure sensor).

The device was born from the need to implement a system-wide applicability clinical rehabilitation associated with extreme ease of use and at an affordable cost, than traditional motion analysis. Moreover SysMotion®, through proprietary algorithms, minimizes the error of reading the ROM, typically provided by the operator, due to the special processing of the acquired signal.



PROTOCOLS

The protocols are based on angular measurements of the three movements (Rotation, Flexion / extension, lateral flexion) according to the METHOD OF MEASURING INTERNATIONAL JOINT SFTR said thank John J. Gerhardt who recognized the advantages of measuring joint movement with the "Neutral Zero" on three fundamental levels: SFTR, [S (sagittal) - F (front) - T (transverse) - R (rotation)] suitable for use with the computer.

Currently two protocols have been implemented: Body ROM and CERV.



EVALUATION OF THE SPACE-TEMPORAL KINEMATIC PARAMETERS

Through the SysMotion® system the evaluation of the movement evolves with respect to the traditional one, based on the use of compact, easily transportable devices that do not interfere with the normal activities of the subject. In addition to a high frequency of data acquisition (up to 200 Hz), the size and the low costs and the flexibility of the Bluetooth transmission of data, SysMotion® presents a high modularity offering the user the possibility of choosing different packages already prepared for use, depending on the application needs. Evaluations of the ROMs are performed in compliance with the international standard



SYSMOTION-CERV®

SysMotion-Cerv is a protocol to evaluate the mobility of the head and neck by measuring the articular (also known as range of motion, ROM) relative to the movements of flexion-extension, lateral flexion (lateral bending) and rotation to check the degrees of freedom articulate, the efficacy of treatment programs and the progress of the patient. The protocol Cerv allows you to make such measures through the following tests:

FLEX-EXTENSION



LATERAL BENDING



ROTATION



SYSMOTION-BODY®

SysMotion Body is a protocol for evaluating the mobility of the various joints of the body: Back-lumbar spine, lumbar spine, shoulder, wrist, hip, knee, ankle.

