



KZ

A device for measuring propulsion in swimming

General description

KZ is a device for measuring the propulsion of an athlete during swimming.

It is designed for research purposes as well as a training tool for coaches.

It is based on two differential pressure sensors receiving the input from two special mini paddles on the hands of the swimmer.

The sensors measure the pressure difference between palm and back of the hand, which determines the thrust.

The signals are then stored in an Electronic Control Unit the athlete wears around his/her waist, and transmitted via a Bluetooth connection to a PC.

A special software programme (APLab Sport DAQ) carries out the analysis of the acquired data.

The ECU is powered by a rechargeable battery.

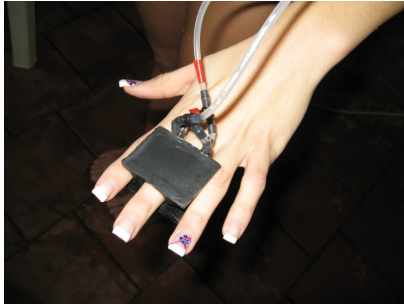


Features

- ◆ **A real swimming experience: no cables, no poolside devices**
- ◆ **Buoyancy neutral ECU box for minimal interference with swimming action**
- ◆ **IP 68 protected box**
- ◆ **Long life Li-Po battery**
- ◆ **High accuracy pressure sensors**
- ◆ **5MB on board memory for long acquisitions**
- ◆ **Quick and easy to wear**
- ◆ **Customisable according to customer's needs**
- ◆ **Windows XP, Vista and 7 compatible**

Technical specifications

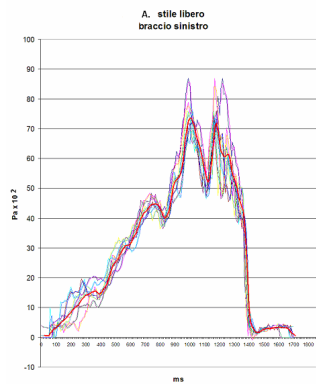
- ◆ **Size of the ECU box: cm12x9x6. Weight: 0,5kg. Weight in water ~ 0**
- ◆ **IP68 water protected**
- ◆ **The kit includes: ECU box, paddles, silicon pipes, battery charger, USB-Bluetooth adapter, CD with software, aluminium case, user's manual (optional PC with preinstalled software)**
- ◆ **24 months warranty**



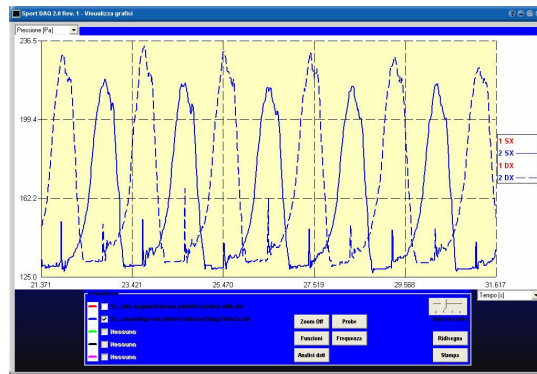
Detail of the paddle



KZ kit



Pressure diagram of a hand



Right and left arm pressure diagram

Customisation

- ◆ **Software with customer logo**
- ◆ **On board inertial platform**
- ◆ **Special custom made ECU box**



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