

ePOSTURO - mobile system for computer aided Posturography

Posturography is a general term that covers all the techniques used to quantify postural control in upright stance in either static or dynamic conditions. Among them, Computerized dynamic posturography (CDP), also called test of balance (TOB), is a non-invasive specialized clinical assessment technique used to quantify the central nervous system adaptive mechanisms (sensory, motor and central) involved in the control of posture and balance, both in normal (such as in physical education and sports training) and abnormal conditions (particularly in the diagnosis of balance disorders and in physical therapy and postural re-education). Due to the complex interactions among sensory, motor, and central processes involved in posture and balance, CDP requires different protocols in order to differentiate among the many defects and impairments which may affect the patient's posture control system. Thus, CDP challenges it by using several combinations of visual and support surface stimuli and parameters.

The ePOSTURO system allows the static and dynamic posturography (Romberg-quotient, CoG) and an automatic Unterbergs stepping test to be carried out. It can be done with the eVNG/eHIT mask or with a mobile sensor with bluetooth interface.

```
function loadTabControl_4321() { window.TC_4321 = new Array(); i = 0;
$$('#tabcontrol_4321').each(function(s) { i++; elements = s.getElements('.tabs'); if(elements.length){ var
tcControl = new TabControl(s, { delay: 4000, tab_remember: 0, tab_cookieName:
'tabcontrolcookie-13352', tab_control: 'tabcontrol_4321', behaviour: 'mouseover', tabs:
s.getElements('.tabs'), panes: s.getElements('.panes'), selectedClass: 'selected', hoverClass: 'hover' ,
addFade: true }); window.addEvent("hashchange",function(){ tcControl.onTabHashChange(); });
window.TC_4321[i] = tcControl; } }); } /* * Bootstrap */ (function($) { window.addEvent('domready',
loadTabControl_4321; })(document.id);
```

- Overview
- Parameters
- Downloads



- » Posturography with the mask or mobile bluetooth sensor
- » komplett wireless mobile bluetooth sensor
- » easy to use
- » free position of the mobile sensor
- » Calculation of "Risk of fall" by Prof. Walther
- » Creation of individual training plans
- » Playback function of data
- » Wireless charging of the mobile sensor
- » GDT interface

System



- >> Mobile Blue:
- >> Bluetooth 2.0
- >> Accuracy: $\pm 0.5^\circ$ (vertical)

>> Weight: 50 g

>> IMu-Sensor 9-Axes

>> IMu-Sensor 100 Hz

>> Qi Standard for wireless charging

min. system requirements



>> Prozessor: Intel i5

>> RAM: 4 GB

>> Graphic: 2 GB RAM

>> Screen: 1600x900 Pixel (besser Full HD)

 [Vestibular Catalogue 2017 \(3.6 MiB\)](#)