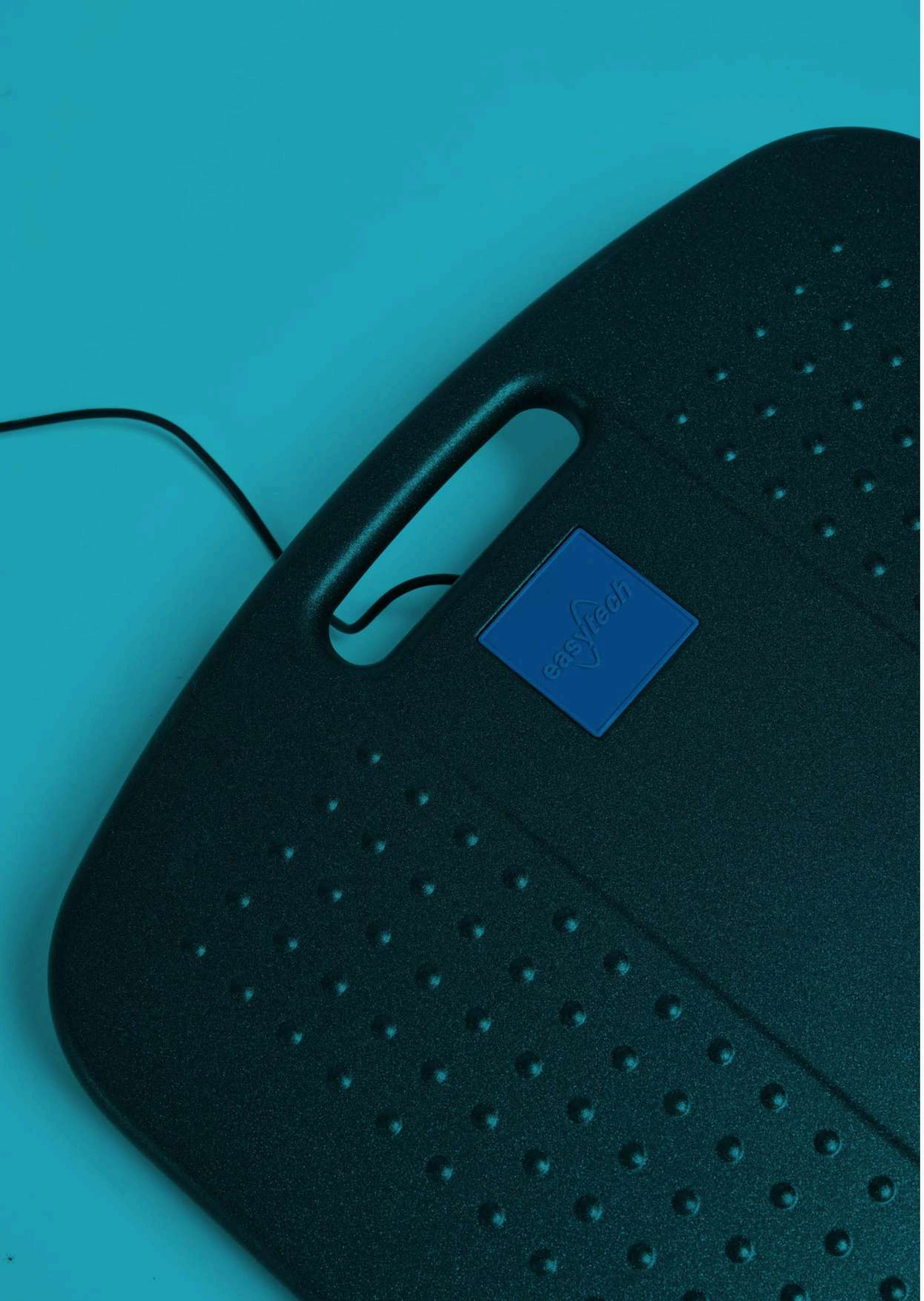


Libra

The device for balance recovery and stimulation of the proprioceptive system.

Libra is an electronic balance board which works on the ankle joint as well as the lower limb in general.
Libra stimulates proprioceptive balance and neuromuscular coordination, making it one of the most powerful preventive devices for post-traumatic recovery.

Other than by traumas, anatomic structure can also be damaged by the neuromuscular mechanism of stabilization and joint protection. Hence why one of the main injury risk factors is given by previous injuries.

Therefore, ankle muscles must possess appropriate amounts of strength and ways to handle it properly.

The neuromuscular reinforcement and the proprioceptive training with Libra are a valid option both for the prevention of sports injuries and the falls of elderly people.
Furthermore, Libra's ability to program, collect and archive work data allows for the planning of customized tests and exercises. Libra also allows you to test the global balance and evaluate the risk index of ankle sprain.

The small size, limited weight and USB power supply make Libra a versatile tool, ideal for working at the gym and at home.

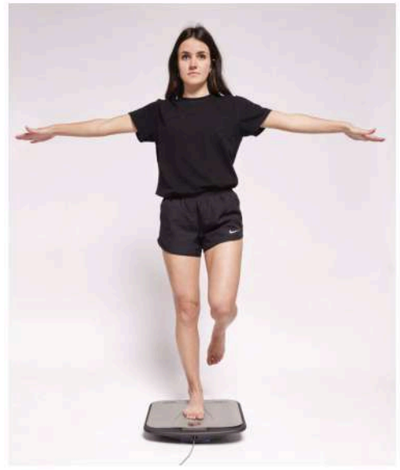
Characteristics

- Variable tilting radius
- Non-slip surface for mono and bipodalic work
- USB connection for PC
- Software with archive and protocols
- Motivational graphic and acoustic feedback
- Performance Index and Video Games
- Comparison between the exercises
- CDG test (ankle stability test)
- SDG test (global balance test)
- Limited dimensions and weights
- Handle and bag for easy portability

Proprioceptive reeducation - Libra

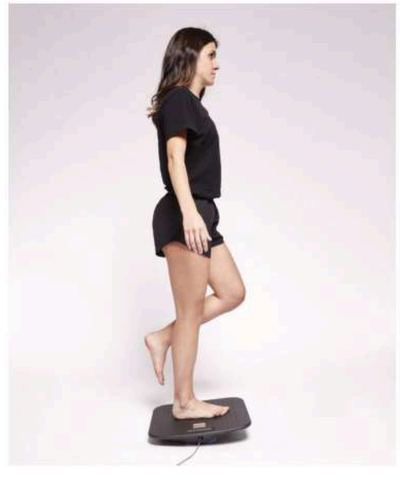
Ways to exercise

Libra allows exercise on an unstable surface with visual and acoustic biofeedback. The patient is stimulated simultaneously on a physical level by the perceived instability and on a cognitive level by the digital feedback provided by the PC. The goal of the exercises is the alignment with your gravity center, in response to tilting variations. The biofeedback multiplies the frequency of the inclinations perceived and managed by the patient.

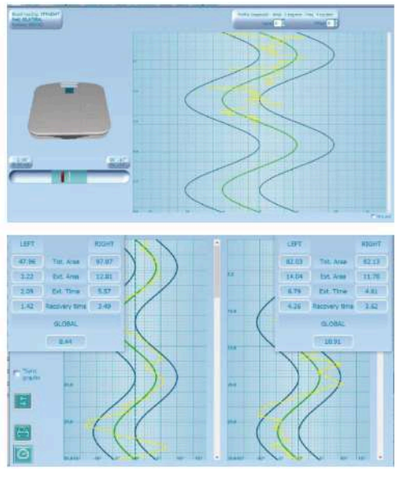


Monopodalic exercises on the frontal plane.

Bipodalic exercises on the frontal plane.



Monopodalic exercises on the sagittal plane.



Simple and intuitive software interface, which compares the two exercises in a transverse (right and left limb) and longitudinal (same limb over time) direction.

Technical features

Retail configuration

Tablet with support surface 42 x 42 cm
Three tilting beams: 5/12/20 cm
Maximum measurement error: 0,2 degrees
Stereophonic acoustic feedback
Visual feedback programmable at multiple difficulty levels
Interactive video games
USB connection for PC

Minimum PC requirements

Windows operating system 7
Intel processor i3
OpenGL graphics card 3.0 version
Ram 4GB
USB port 2.0
Printer for paper version of reports

Dimension and weight

42 x 43 x 6,5h cm
3,5 kg

Installation requirements

Room temperature: [+10; +40] °C
Relative humidity (without moisture): [0; +75] %
Atmospheric pressure: [700; 1060] mbar
Maximum patient weight: 100 kg

Trademark

The Libra device is an Easytech registred mark

Interactive video games to facilitate physical and cognitive engagement.