physio sensing

Devices for Clinical Balance Testing

2027 CATALOG

Thinking about everyone in the world who suffers from balance disorders







years of experience

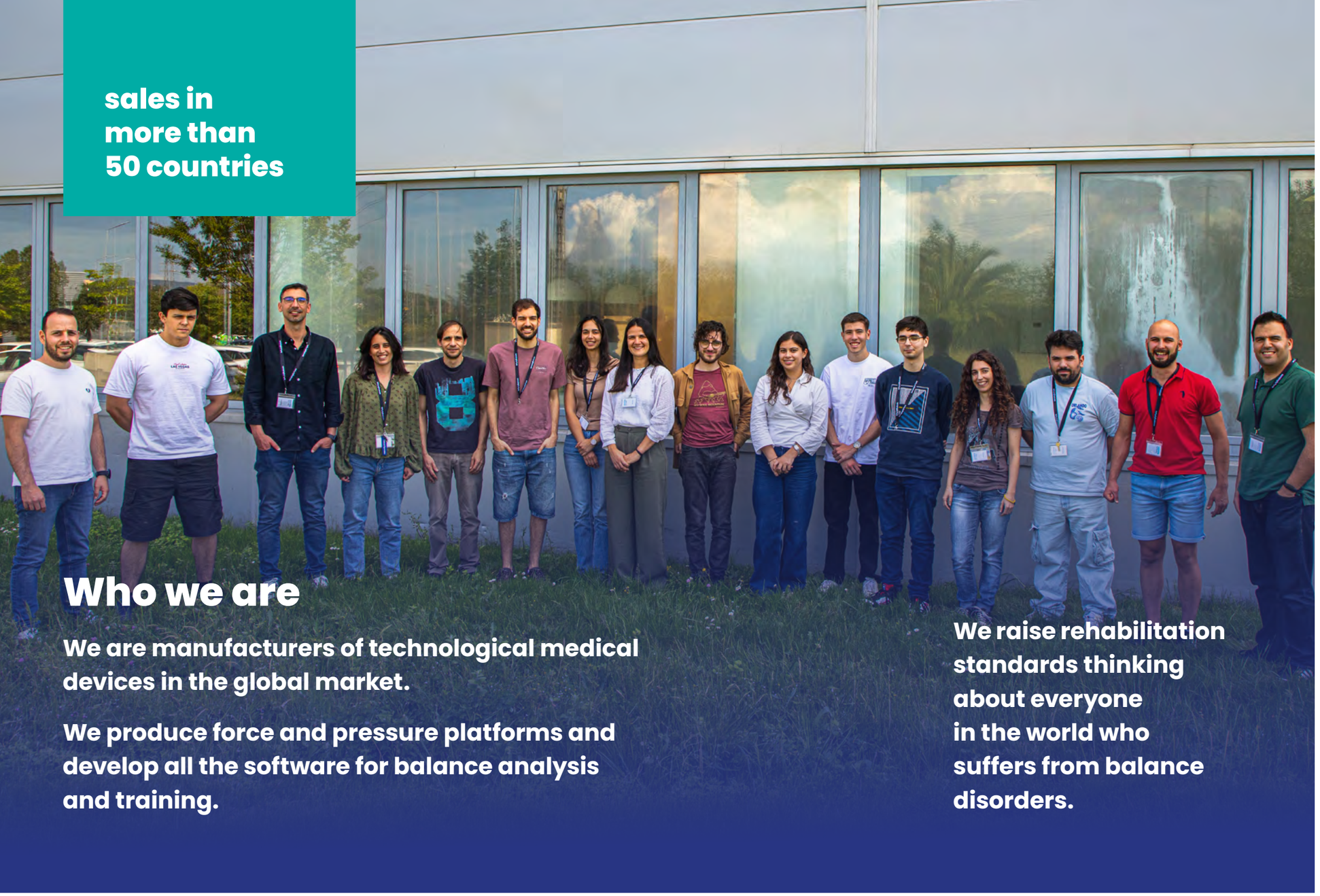
powered by

sensing fu+ure

a greater step

According to the new Medical Device Regulation EU 2017/745





sales in more than 50 countries

Who we are

We are manufacturers of technological medical devices in the global market.

We produce force and pressure platforms and develop all the software for balance analysis and training.

We raise rehabilitation standards thinking about everyone in the world who suffers from balance disorders.

physio sensing

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linkedin.com/company/sensing-future-technologies

SENSING FUTURE TECHNOLOGIES, LDA

Sensing Future Technologies
Centro de Empresas de Taveiro
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3045-508 - Taveiro
Coimbra, PORTUGAL

EUDAMED Single Registration Number:
PT-MF-000028345
VAT: PT 510 078 982

COMPANY CERTIFICATION ISO 13485 and ISO 9001

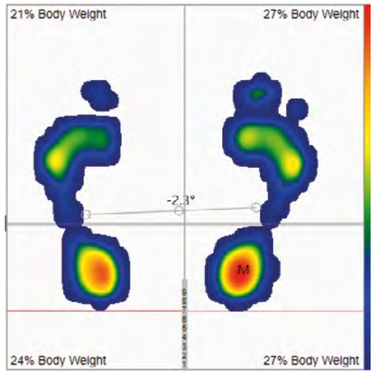
PRODUCT CERTIFICATION CE Medical Device Class I according to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament.

revision date: nov. 2026

what is PhysioSensing?

Balance & Motor Control

Balance control consists of controlling the body center of mass over its limits of stability. Clinical balance assessment can help assess fall risk and/or determine the underlying reasons for balance disorders. The benefits of using force plates in balance assessment comes from their ability to measure center of pressure (CoP).



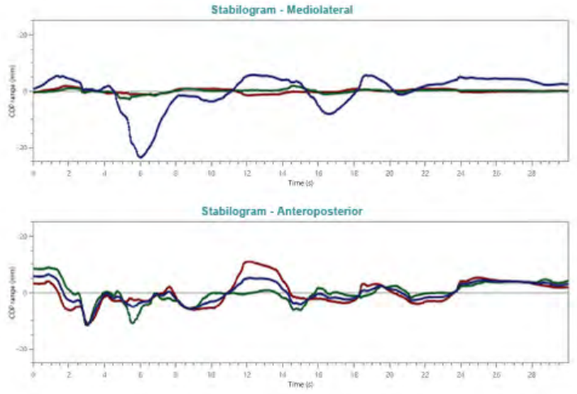
Feet Pressure Map

Foot Pressure Mapping is a method of measuring pressures on the surface of the foot while standing or walking. Static and dynamic baropodometric analysis are performed on a baropodometric platform, through which the pressure exerted by the feet from standstill and during walking is being measured.



Gamification Rehabilitation

Gamification rehabilitation promotes task-oriented approaches in a more attractive, varied, and challenging setting. Combining neuroscience with game design enables us to construct a powerful therapeutic tool for facilitating recovery of motor and cognitive function in diverse contexts. From children to the elderly population, the implementation of computer games encourages motivation and engagement to the rehabilitation process.



Static and dynamic Posturography

Computerized posturography systems utilize force platforms to measure the sway of a patient by determining the movements of the instantaneous Center of Pressure (CoP). The CoP data collected can be visualized through a statokinesigram and stabilogram.

Virtual Reality

In the recent decade, Virtual Reality (VR) has become generally accepted as a therapeutic tool for neurological patients. VR involves real-time simulation and interactions between sensory, motor and cognitive channels. VR can be set up to be strongly immersive, in that the environment appears real and three-dimensional. VR provides an ideal environment to study the balancing strategies.



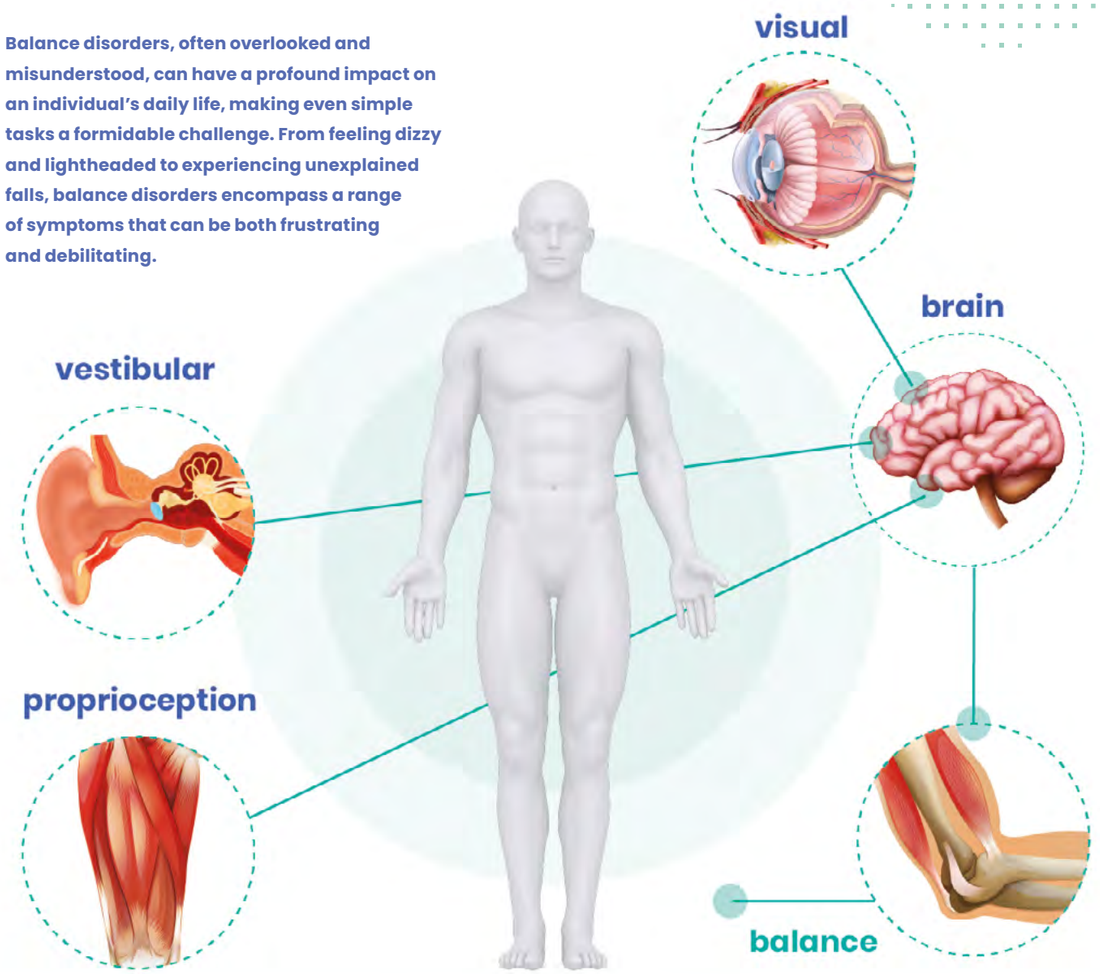
Real Time Visual Biofeedback

Visual Biofeedback (VB) is a rehabilitation method that can be used during static balance training, offering the patient visual information on the position of the center of gravity within the range of stability as the patient stands on a plate. VB stimulates motivation, proprioceptive information to the patient, simulates the body movements and provides valuable information for the health professional.



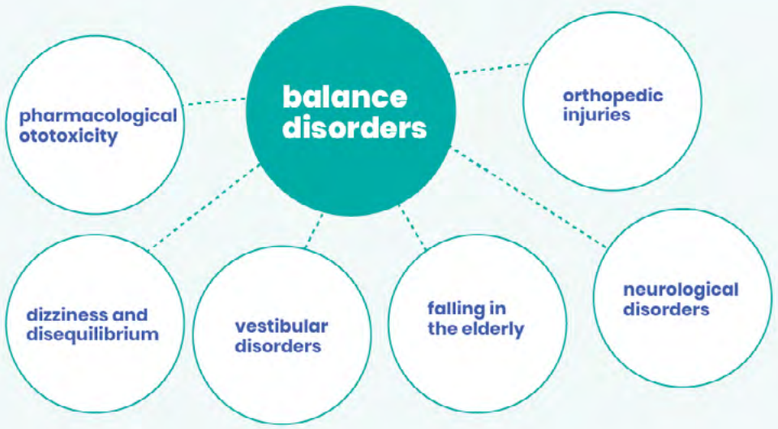
why PhysioSensing?

Balance disorders, often overlooked and misunderstood, can have a profound impact on an individual's daily life, making even simple tasks a formidable challenge. From feeling dizzy and lightheaded to experiencing unexplained falls, balance disorders encompass a range of symptoms that can be both frustrating and debilitating.





When any of these systems is injured or deficient, balance can markedly be affected!





Why is PhysioSensing effective?

PhysioSensing is a potent tool for assessing and training balance. It enables an objective evaluation of balance, allowing for the characterization of postural stability in both static and dynamic conditions across a range of sensory scenarios.

PhysioSensing can be applied in various fields, including neurology, vestibular rehabilitation, orthopedics, sports medicine, geriatrics, and pediatrics.

Each of the 14 protocols generates a comprehensive clinical report, facilitating data collection and analysis for clinical work and research purposes.

As a balance training tool, PhysioSensing offers over 30 balance exercises and games that provide instant biofeedback. These exercises allow for the training of static and dynamic balance, increasing limits of stability, weight transfer in different planes, and enhancement of motor control.

Each exercise requires the configuration of specific parameters to suit individual patients, thereby regulating the difficulty level and aligning with the training goal. Tracking each rehab session helps evaluate how well the rehabilitation is working.

physio sensing

Balance Rehab Station

The complete Balance Solution for Rehab Professionals

With comprehensive balance and posturography system, you see what others miss

WHEN BALANCE MATTERS MOST

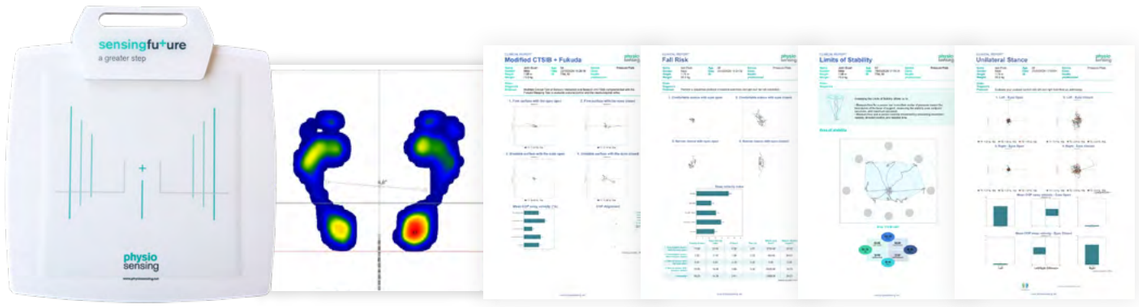
› **Neurological conditions:** Stroke, Parkinson's, concussion, multiple sclerosis, peripheral neuropathies.

› **Geriatrics & fall risk:** Dizziness, recurrent falls, age-related balance decline.

› **Musculoskeletal rehab:** Post-hip prosthesis, knee injuries, ankle sprains, chronic instability.

› **Everyday challenges:** Patients who feel unsteady, lose confidence in walking, or fear falling.







Why Choose Balance Rehab Station?

› 12+ validated **balance assessment protocols** with reports.

› Super-comprehensive posturography with **30+ parameters**.

› **Multiple conditions:** seated, standing, narrow/wide base, single-leg, eyes open/closed and custom your own tests.

› **Fall risk:** prediction backed by scientific evidence.

› **Limits of Stability and mCTSIB**: Functional Balance and sensory interaction.

› **Sit to Stand:** stability and weight distribution analysis.

› **Unilateral Stance:** balance response while standing on one leg. Stability symmetry between legs.

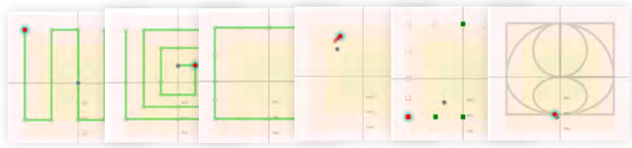
› Plantar pressure mapping and Gait analysis: **detailed plantar pressure maps** highlight asymmetries, load distribution, and gait abnormalities.

› **Engaging biofeedback** (visual and audio) exercises and games for balance training: Improve adherence and enhance neuroplasticity.

› Weight transfers, dual task and cognitive exercises for **enhancing motor cognitive integration.**

› **Objective and professional reports** in PDF, Excel and raw data export with your clinic logo and progress.

› **One Super Complete Station:** plug & play setup, easy installation, 2-year warranty.



TECHNICAL SPECIFICATIONS

This plate does not require calibration thanks to its auto-calibration system (ACM)

Size (Length x Width x Height)	61.5 x 56.5 x 2.3 cm
Weight	3.5 kg
Thickness	1 cm
Active surface	40 x 40 cm
Sensor type	Resistive
Sensors number	1 600
Sensor life time	More than 1 000 000 actuations
Min. / max. pressure (each sensor)	0.4 N to 100 N
Min. / max. Load	20 / 200kg
Connection power	USB (USB cable length: 3m)
Frequency	100 Hz ~100 acquisitions / second

REGULATORY

PRESSURE PLATE

CE Medical Device Class I

According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament

Standards applied **ISO 13485**

UDI - DI number **05600113833721**

Warranty **2 years**

HS Code **9018 19 10**

PC MINIMUM REQUIREMENTS

Computer It is mandatory to have the minimum requirements to guarantee proper functioning of the system

Processor (CPU)	**Intel i5, 2.30GHz** Avoid 'U' or 'G7' versions of processors
RAM	**8 GB**
Graphic Card	**6 GB**
USB Ports	**Minimum 2 ports USB 2.0 or 3.0 ports and 1 USB 3.0 port**
Operating System	**Windows 11 (64 bits)**
Recommended Screen Resolution	**1920 x 1080 px**

CONFIGURATIONS

monthly payment options

Standalone
Pressure Plate + Software + Foam

Cart
Pressure Plate + Software + Foam + Mobile Cart Plus

Complete
Pressure Plate + Software + Foam + Mobile Cart Plus + PC Desktop + Monitor 27"

Product **Name:**
PhysioSensing Balance Rehab Station

Product **Function:**
Comprehensive balance assessment and training system with biofeedback

Field of application:
› Physical Rehabilitation
› Neuro Rehabilitation
› Musculoskeletal Rehabilitation
› Geriatrics & Fall Prevention

Main **applications:**
- Posturography (static & dynamic)
- Balance training with visual biofeedback
- Sensory interaction (visual, vestibular, proprioception)
- Dynamic Balance and Limits of Stability
- Rehabilitation games and patient engagement
- Fall risk detection and prevention

Who is this solution for:
- Physiotherapists
- Neurologists & Rehabilitation Physicians
- Geriatric Clinics
- Research Centers & Universities

Software **Features:**

Balance Assessment Protocols
› mCTSIB- Modified Clinical Test of Sensory Interection on Balance
› Romberg Test
› Body Sway (posturography)
› LOS - Limits of Stability
› Fall Risk
› Rhythmic Weight Shift
› Unilateral Stance
› Balance Error Scoring System
› Sit to Stand
› Static Analysis
› Total Balance Pro
› Weight Bearing Squat
› Postural Analysis
› Dynamic Analysis (gait)

Balance Exercise Categories
› Balance and Stability
› Figure and Paths
› Random Points
› Visual Stimulus
› Protocol Training
› Load Charts

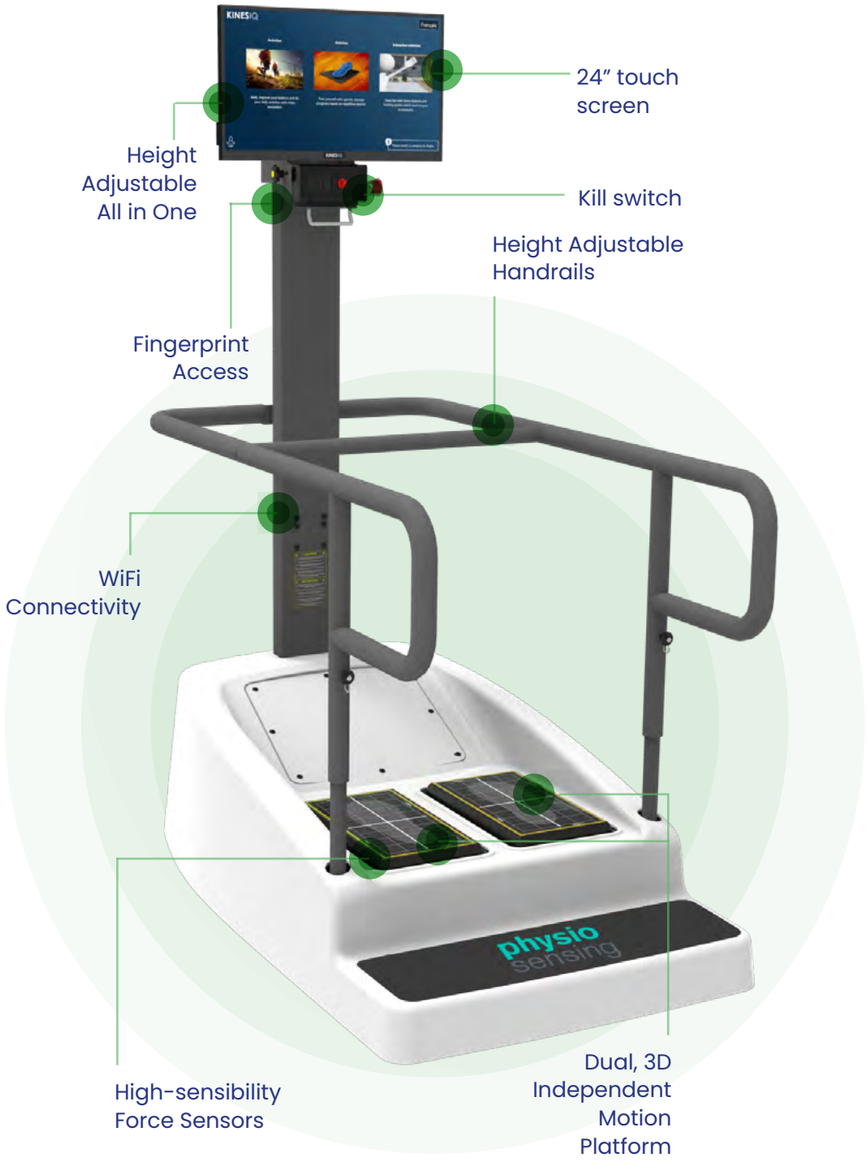
Balance Games
› Pong & Ball Balance
› BART
› 2D game
› Slime Pong & Slime Run
› Space Sway
› Break your Balance

Motor-Cognitive Game
› Memory Game

Kine-Sim Dynamic

Dynamic balance and gait rehabilitation system with dual 3D motorized platforms synchronized to immersive real-life scenarios.

It trains both anticipatory and reactive postural responses, motor control, and motor-cognitive integration. It turns therapy into an engaging and measurable experience - from neurology to geriatrics.



monthly payment options

Why choose Kine-Sim Dynamic?

› Real, adjustable perturbations for functional, transferable reactive **balance training**.

› Based on scientific evidence that encourages the use of **perturbation-based balance training** for fall risk reduction.

› Over **40 immersive "real-life" virtual environments** for motivation and adherence.

› Dual 3D motorized platforms with force sensors for **precision and feedback**.

› Trains balance, gait, cognition, sensory integration, and stepping - **all in one device**.

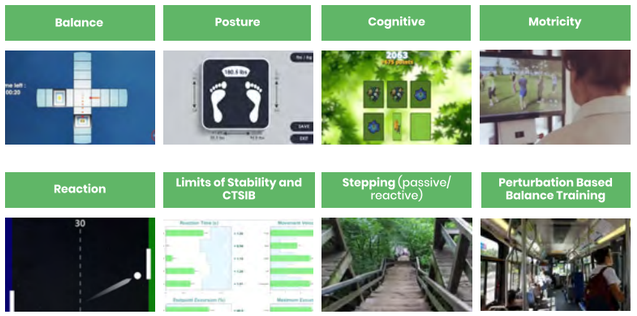
› **Safety features:** adjustable handrails, harness option, and emergency stop.

› Built-in CTSIB and Limits of Stability protocols for **assessment and training**.

› **Dual-task training** improves cognitive-motor interaction critical for fall prevention.

› Compact and Wi-Fi connected for **modern rehabilitation** centers.

Therapies



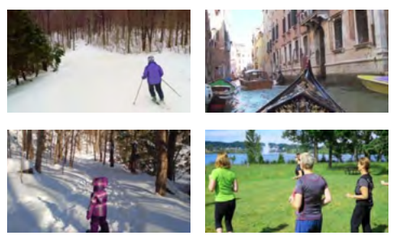
Product **Name:**
PhysioSensing KIne-Sim Dynamic

Field of application:
› Aging and fall risk
› Stroke and traumatic brain injury
› Parkinson's disease and multiple sclerosis
› Lower limb musculoskeletal injuries
› Concussions
› Neurological Rehabilitation - Reactive & Proactive Balance Strategies

Main **applications:**
- Perturbation-Based Balance Training (PBBT)
- Anticipatory postural control and stepping
- Limits of Stability (LOS) and Center of Pressure analysis
- CTSIB for sensory organization
- Dual-task (cognitive-motor) and attention training
- Lower limb strengthening and postural orientation

Who is this solution for:
- Neurological and physical rehabilitation centers
- Geriatric and fall-prevention programs
- Concussion rehabilitation units
- Orthopedic and sports rehabilitation clinics
- Senior living and nursing homes

With over 40 real life scenarios



CLINICAL APPLICATIONS

› Fall Prevention & Functional Aging

Develop reactive balance strategies for balance recovery under unpredictable perturbations. Empower older adults to stay stable and independent in the face of daily-life instability.

› Neurological Rehabilitation Reactive & Proactive Balance Strategies

Retrain automatic and anticipatory postural strategies through dynamic perturbations and real-life challenges. Ideal for stroke, Parkinson's, TBI, and MS patients to restore confidence, and functional stability.

› Dynamic Orthopedic & Post-Surgical Recovery

Rebuild lower-limb control and postural symmetry with progressive dynamic balance challenges. Safely enhance load distribution, joint mobility, and stepping control on moving platforms.

› Cognitive-Motor Reintegration

Combine postural control with cognitive load to rebuild dual-task ability and attention management. Essential for neurological patients needing cognitive-motor coordination in complex environments.

› Comprehensive Balance Assessment & Training

Perform objective evaluations like Limits of Stability and dynamic postural control tests. Track measurable progress through force data and adaptive perturbation profiles.

TECHNICAL SPECIFICATIONS

Length	1429 mm | 56 1/4 in
Width	849 mm | 32 1/5 in
Height	1936 mm | 76 1/4 in
Weight	155 kg | 324 lbs
Electricity	110V / 8A, 220V/ 6A, 50/60Hz
Connectivity	Wi-Fi | Bluetooth
Max. User weight	159 kg | 350 lbs
Max. pitch / max. speed pitch	+/- 22° | 120 deg. / sec.
Ma. roll / max. speed roll	+/- 22° | 120 deg. / sec.
Max. speed heave	101 mm / sec. | 4 in / sec.
Max. heave (elevation plates)	101 mm | 4 in

Power: The standard configuration includes an EU plug. Requests for other plug types must be communicated when placing the order.

REGULATORY

CE Medical Device Class I

According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament

Standards applied:
ISO 13 485

Documentation:
Declaration of Conformity

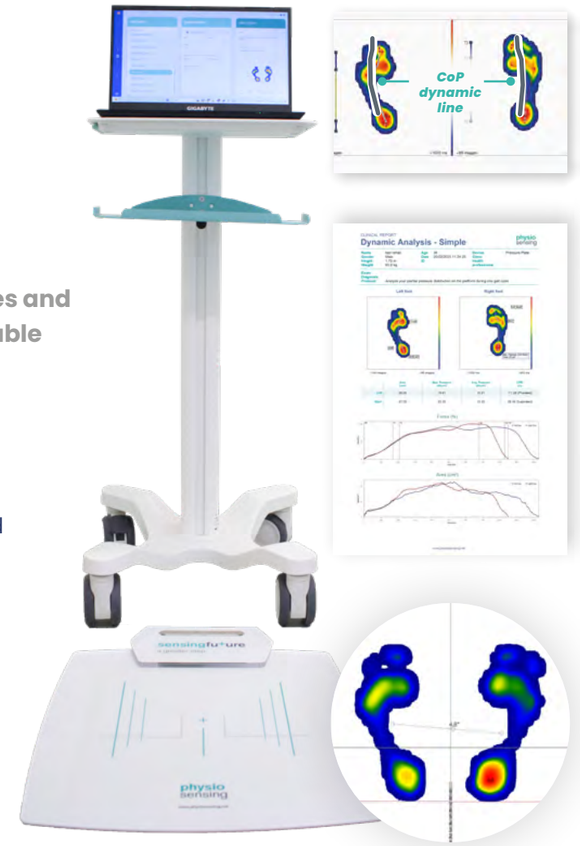
UDI - DI number:
05600717927024

Warranty: **2 years**

Podo

Discover the invisible forces beneath your feet.

PhysioSensing Podo reveals hidden pressures and asymmetries, turning footprints into actionable data for clearer, evidence-based care.



CLINICAL APPLICATIONS

› **Foot deformities & malalignment** – flat foot, hallux valgus, pes cavus; assess asymmetries and pressure distribution.

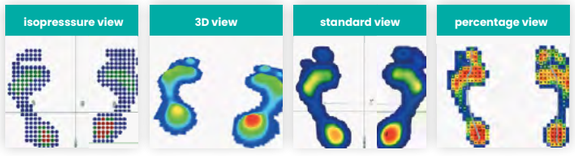
› **Diabetic foot & ulcer prevention** – detect high-pressure hotspots and guide protective footwear or insoles.

› **Post-surgery monitoring** – evaluate gait restoration and symmetry after foot/ankle operations.

› **Orthoses & insoles** – validate and track the effectiveness of custom orthotics.

› **Sports & injury prevention** – detect imbalances, optimize performance, reduce overload injuries.

› **Postural analysis** – link foot loading to knees, hips and spine for comprehensive assessment.







Why PhysioSensing Podo?

› **Because every footstep matters.**
The foot is our foundation — imbalances and overloads ripple through the ankle, knee, hip, and spine.

› **Because observation alone isn't enough.**
Traditional gait inspection is subjective; Podo delivers objective, high-resolution data you can trust.

› **High sensor resolution, high confidence.**
Detect subtle gradients, hotspots, and asymmetries invisible to the eye.

› **Fast sampling, dynamic clarity, gait analysis.**
Capture the gait cycle with precision, mapping the center of pressure and temporal patterns.

› **One platform, two dimensions.**
Assess both static balance and dynamic gait to understand the whole picture.

› **Reports that speak for you.**
Automatic reporting. Save time and enhance clinical credibility.

› **Lightweight, powerful, portable.**
Move the system easily, deploy it wherever your patients need you.

› **Insoles that really fit.**
Quantify pressure distribution, validate orthoses, and demonstrate the impact of custom insoles on patient outcomes.

› **Stand out in your market.**
Offering advanced diagnostics elevates your clinic, attracts referrals, and opens new revenue streams.



Product **Name:**
PhysioSensing Podo

Product **Function:**
Measures plantar pressure distribution in static and dynamic conditions

Field of application:
- Clinical Practice and Rehabilitation
- Sports performance and injury prevention
- Research and education

Main **applications:**
- Gait and posture assessment
- Diabetic foot and ulcer risk prevention
- Orthoses and insole prescription / validation
- Post-surgery and neurological rehabilitation

Who is this solution for:
- Podiatrist
- Physiotherapy clinics specializing in musculoskeletal / gait / posture
- Orthopaedic clinics, foot & ankle surgeons
- Sports medicine / athletic performance labs
- Rehabilitation centers (neurology, orthopaedic)
- Diabetic foot care clinics
- Universities / Gait and posture labs, biomechanics and movement labs

Software **Features:**
Balance Assessment Protocols
- Static Analysis
- Postural Analysis
- Dynamic Analysis (gait)

TECHNICAL SPECIFICATIONS

This plate does not require calibration thanks to its auto-calibration system (ACM)

Size (Length x Width x Height)	61.5 x 56.5 x 2.3 cm
Weight	3.5 kg
Thickness	1 cm
Active surface	40 x 40 cm
Sensor type	Resistive
Sensors number	1 600
Sensor life time	More than 1 000 000 actuations
Min. / max. pressure (each sensor)	0.4 N to 100 N
Min. / max. Load	20 / 200kg
Connection power	USB (USB cable length: 3m)
Frequency	100 Hz ~100 acquisitions / second

PC MINIMUM REQUIREMENTS

Computer It is mandatory to have the minimum requirements to guarantee proper functioning of the system

Processor (CPU)	**Intel i5, 2.30GHz** Avoid 'U' or 'G7' versions of processors
RAM	**8 GB**
Graphic Card	**6 GB**
USB Ports	**Minimum 2 ports - USB 2.0 or 3.0 ports and 1 USB 3.0 port**
Operating System	**Windows 11 (64 bits)**
Recommended Screen Resolution	**1920 x 1080 px**

REGULATORY

PRESSURE PLATE

CE Medical Device Class I

According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament

Standards applied **ISO 13485**

UDI - DI number **05600113833707**

Warranty **2 years**

HS Code **9018 19 10**

CONFIGURATIONS

monthly payment options

Standalone

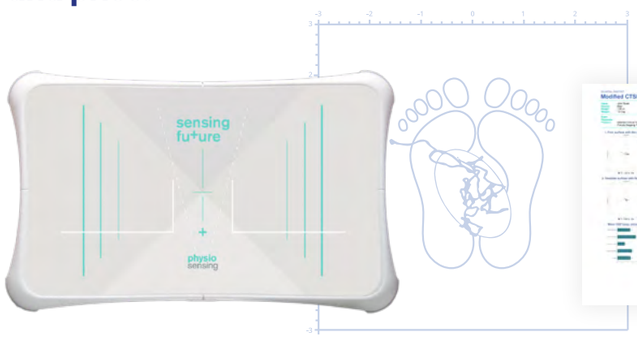
Pressure Plate + Software

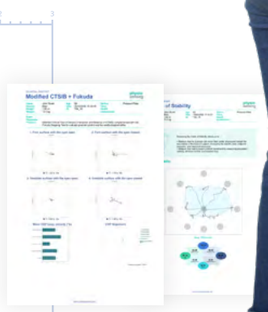
Cart

Pressure Plate + Software + Mobile Cart Basic

Balance Basic

Designed for those looking for a more economical system for balance assessment and training. This system is very portable and is connected to a computer or laptop via USB cable. It has a set of protocols, games and balancing exercises.
A perfect combination between features and price.







BALANCE BASIC BREAKS THE COMMON BARRIERS:

Cost and investment risk
High-end systems can be prohibitively expensive, especially without a clear financial return
› **Balance Basic is a low cost system, affordable, with a fast and measurable ROI. Perfect for beginners .**

Physical Space
Smaller clinics may not have room for large or complex equipment.
› **Balance Basic is portable and has a compact design that fits any clinic.**

Complexity
Learning to operate and interpret advanced systems, takes time that many professionals simply don't have.
› **Balance Basic has an intuitive software, no steep learning curve.**

Communication with patient:
Explaining results to patients in a clear relatable way can be difficult, reducing confidence in the system's value.
› **Balance Basic has a clear and visual reports that engage patients and build trust.**

No Batteries

No (re) charges

No fails related wireless/ bluetooth communication

One single USB cable for power and data communication. Just plug and play

Fast and Objective Balance Assessments

PhysioSensing delivers quick, reliable and easy to interpret tests such as mCTSIB and LOS. With a comprehensive posturography of over 30 variables, and complementary protocols like Unilateral Stance and BESS, it provides a complete clinical picture with clear baselines, goals, and measurable progress.

Biofeedback Balance Training

Biofeedback training significantly improves stability and dynamic balance. It is effective in stroke recovery, Parkinson's disease and concussion. By providing real-time visual and interactive feedback, it engages patients, accelerates progress, and reduces fall risk.

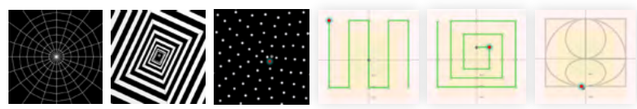
Progress Monitoring

PhysioSensing generates clear reports that track patient evolution with objective data. Results can be exported in PDF or Excel and shared directly with patients, boosting engagement and confidence.

ROI- Return of Investment

With Balance Basic your investment turns into results fast, positioning you as a leader in innovative rehabilitation. You'll get more patients, premium services, opportunities for your clinic, and new and higher revenues.





Product **Name:**
PhysioSensing Balance Basic

Product **Function:**
Balance Assessment and Training with biofeedback

Field of application:
› Physical Rehabilitation
› Vestibular Rehabilitation
› Neuro Rehabilitation

Main **applications:**
- Posturography
- Balance training with biofeedback
- Sensory interaction
- Dynamic balance
- Rehabilitation games
- Fall risk assessment

Who is this solution for:
- Physiotherapists
- Audiologists
- ENT´s
- Audio physicians

Software **Features:**

Balance Assessment Protocols
› mCTSIB- Modified Clinical Test of Sensory Interection on Balance
› Romberg Test
› Body Sway (posturography)
› LOS - Limits of Stability
› Unilateral Stance
› Balance Error Scoring System

Balance Exercise Categories
› Balance and stability
› Figure and paths
› Visual stimulus
› Load charts

Balance Games
› Pong & Ball Balance
› BART
› 2D game

TECHNICAL SPECIFICATIONS

Size (Length x Width x Height)	51 x 32 x 5.5 cm
Weight	4 kg
Sensors	4 load cells
Power supply	USB cable
Acquisition Data	100 Hz
Computer Interface	USB
Material	ABS Plastic
Min. Load Capacity	15 kg
Max. Load Capacity	150 kg
Operating Principle	CoP calculated from 4 resistive load cells

PC MINIMUM REQUIREMENTS

Computer It is mandatory to have the minimum requirements to guarantee proper functioning of the system

Processor (CPU)	**Intel i5, 2.30GHz** Avoid 'U' or 'G7' versions of processors
RAM	**8 GB**
Graphic Card	**6 GB**
USB Ports	**Minimum 2 ports - USB 2.0 or 3.0 ports and 1 USB 3.0 port**
Operating System	**Windows 11 (64 bits)**
Recommended Screen Resolution	**1920 x 1080 px**

REGULATORY

CE Medical Device Class I

According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament

Standards applied **ISO 13485**

UDI - DI number: **05600717927048**

Warranty **2 years**

HS Code **9018 19 10**

CONFIGURATIONS

monthly payment options

Standalone



Cart



Posturography Station

PhysioSensing Posturography Station transforms balance assessment into a meaningful experience - combining scientific precision with interactive feedback to evaluate, train, and restore postural stability in patients with vestibular, neurological, or age-related balance disorders, empowering confident movement and measurable recovery.

CLINICAL APPLICATIONS

Vestibular Rehabilitation and Sensory Integration Reweighting
Restore balance by retraining how the brain integrates visual, vestibular, and somatosensory input.

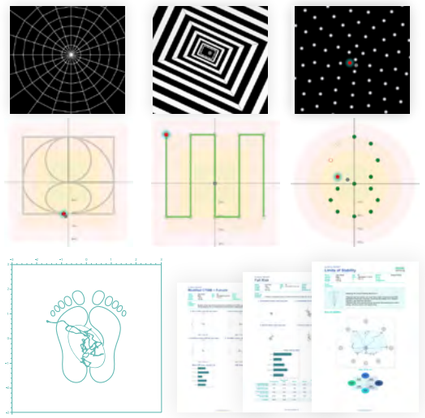
Fall Risk Detection & Prevention
Identify instability before it leads to a fall. Advanced force-plate metrics (sway area, velocity, and trajectory), objectively quantify balance deficits and guide early preventive interventions.

Neurological Recovery & Functional Tracking
Quantify postural control in patients with Parkinson's disease, stroke, multiple sclerosis, or traumatic brain injury. Monitor recovery and personalize therapy with measurable data that reveal true functional progress.

Limits of Stability (LOS) & Motor Control Training
Assess and expand each patient's safe range of motion using real-time visual feedback. Train automatic postural responses, strengthen control strategies, and restore the ability to move with confidence.

Comprehensive Sensory Organization & Evidence Based Outcome Monitoring - Evaluate the contribution of sensory systems through mCTSIB and related tests. Generate reproducible, comparable reports to track improvement, demonstrate efficacy, and communicate measurable results to patients and referring clinicians.







WHY CHOOSE PHYSIOSENSING POSTUROGRAPHY STATION

Ultra-comprehensive body-sway analytics (30+ parameters)
Deep posturographic detail — over thirty CoP and sway measures to uncover subtle balance deficits others miss.

Objective, data-driven postural assessment
Replace subjective impressions with precise quantification of balance, sway dynamics, and stability in every patient encounter.

Preloaded validated clinical protocols
Comes with ready-to-use standard tests (such as LOS and mCTSIB) to streamline clinical workflow and guarantee reproducibility.

Progress tracking & therapy effectiveness monitoring
Longitudinal reports visually compare sessions to quantify gains, validate treatment, and adapt protocols over time.

Intuitive real-time visual feedback
Patients and clinicians see immediate sway maps or targets, enhancing engagement, motivation, and therapeutic adherence.

Customizable for your clinical needs
Adjust test durations, direction weighting and tailor protocols to each patient's condition and capacity.

Strengthens clinical credibility & differentiation
Offering advanced objective posturography sets your practice apart and inspires confidence among patients and colleagues.

Designed for balance, vestibular & neuro specialists
Tailored interface, metrics, and workflows reflect the needs of physiotherapists, audiologists & ENTs, vestibular therapists, geriatric clinicians, and neurological rehab specialists.

Product **Name:**
PhysioSensing Posturography Station

Field of application:
- Vestibular & Balance Rehabilitation
- Neurological Rehabilitation
- Fall Risk Assessment & Prevention
- Postural Control Research
- Sports & Performance Stability

Main **applications:**
- Quantify Balance & Postural Control
- Detect and Prevent Fall Risk
- Guide Vestibular and Neurological Rehabilitation
- Enhance Motor Control and Coordination
- Personalize Therapy with Real-Time Biofeedback
- Monitor Recovery and Demonstrate Outcomes
- Support Evidence-Based Clinical Decision Making
- Increase Patient Engagement and Confidence in Movement

Who is this solution for:
- Vestibular Therapists
- Audiologists & ENTs
- Neurological Rehab Specialists
- Otoneurologists
- Geriatric Clinicians
- Physiotherapists
- Universities and Research Labs

Software **Features:**

Balance Assessment Protocols
- mCTSIB- Modified Clinical Test of Sensory Interection on Balance
- Romberg Test
- Body Sway (posturography)
- LOS - Limits of Stability
- Fall Risk
- Rhythmic Weight Shift
- Unilateral Stance
- Balance Error Scoring System

Balance Exercise Categories
- Balance and Stability
- Figure and paths
- Random points
- Visual stimulus
- Protocol Training
- Load charts

Balance Games
- Pong & Ball Balance
- BART
- 2D game
- Slime Pong & Slime Run
- Space Sway
- Break your balance

Motor-Cognitive Game
- Memory Game

TECHNICAL SPECIFICATIONS

Size (Length x Width x Height)	55 x 55 x 3 cm
Weight	8.5 kg
Thickness	1,5 cm
Material	Aluminium AU4G
Minimum Load	20 kg
Maximum load	250 kg
Sampling rate	100 Hz
Analogic / Digital Conversion	24 bits
Platform computer interface	USB
Power supply	USB cable (USB cable length: 3 m)

FORCE PLATE

CE Medical Device Class I

According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament

Standards applied **ISO 13485**

UDI - DI number **05600717927062**

Warranty **2 years**

HS Code **9018 19 10**

PC MINIMUM REQUIREMENTS

Computer It is mandatory to have the minimum requirements to guarantee proper functioning of the system

Processor (CPU)	**Intel i5, 2.30GHz** Avoid 'U' or 'G7' versions of processors
RAM	**8 GB**
Graphic Card	**6 GB**
USB Ports	**Minimum 2 ports USB 2.0 or 3.0 ports and 1 USB 3.0 port**
Operating System	**Windows 11 (64 bits)**
Recommended Screen Resolution	**1920 x 1080 px**

CONFIGURATIONS

monthly payment options

Standalone
Force Plate + Software + Foam

Cart
Force Plate + Software + Foam + Mobile Cart Plus

Complete
Force Plate + Software + Foam + Mobile Cart Plus + PC Desktop + Monitor 27"

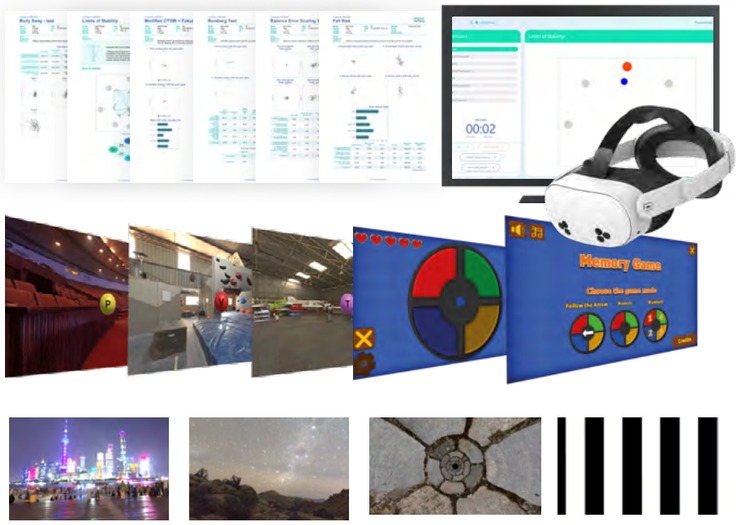
Otoneuro System

Otoneuro System combines force plate posturography, an inertial sensor, and immersive VR into one software driven workflow. Clinicians assess VOR, visual-vestibular integration, cervical proprioception, and postural control, then deliver targeted, engaging therapy with automated reports to track progress.



ASSESSMENT

- Visual-Vestibular Integration
- Balance Assessment Protocols
- Vestibular Ocular Reflex (VOR)
- Cervical Proprioception



TREATMENT

- VOR and Oculomotor
- Balance
- Cervical Proprioception
- Habituation Exercises
- Balance Games
- HD Busy Environments
- Vestibular Rehabilitation VR Game

CONFIGURATIONS

monthly payment options

Base

Force Plate + Software + VR Headset + Inertial Sensor + Foam + PC Desktop

Complete highly recommended

Force Plate + Software + VR Headset + Inertial Sensor + Fukuda Mat + Safety Automatic Bars + Screen 55" + Display Cart + Mobile Cart Plus + PC Desktop + Screen 27" + Printer

Patient station | **Medical station**

REGULATORY

CE Medical Device Class I

According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament

Standards applied:
ISO 13 485

UDI - DI number:
05600717927079

Warranty: **2 years**

CLINICAL APPLICATIONS

Functional VOR Assessment & Training
Measure VOR with Dynamic Visual Acuity and Gaze Stabilization tests, identify asymmetries, and perform adaptation exercises to improve gaze stability and reduce oscillopsia.

Visual–Vestibular Integration & Motion Sensitivity
Use optokinetic stimuli within posturography to reveal sensory conflict and visual dependence, then habituate safely in VR scenarios tailored to motion-provoked symptoms.

Cervicogenic Dizziness & Proprioceptive Control
Quantify cervical joint position error with an inertial sensor to profile neck proprioception deficits and tailor head–neck repositioning tasks with real-time feedback.

Postural Control & Sensory Reweighting
Objectively assess static/dynamic balance, establish baseline measures and improve clinical decision making. Choose between different exercises to train balance, targeting postural alignment, weight transfer ability, directional control, limits of stability and sensory integration under progressively complex VR environments.





Product **Name:**
PhysioSensing Otoneuro System

Who is this solution for:

- Otoneurologists & Neurotologists
- ENT/Otolaryngology clinics
- Audiologists
- Vestibular physiotherapists & rehab specialists
- Rehabilitation medicine & neurology services
- Private clinics and balance centers
- Universities & research groups

Field of application:

- Vestibular assessment and rehabilitation (clinical & research)
- Balance and fall-risk profiling in neurological/otologic conditions

Main **applications**

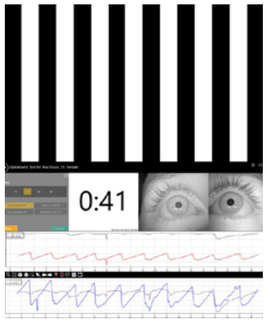
- Quantifying dizziness / imbalance with force-plate
- Posturography with optokinetic stimulation
- Functional VOR testing and training (DVA/GST)
- Detect sensory dependences
- Cervical proprioception (JPE) assessment and retraining
- Sensory reweighting and balance training delivered with or without VR environments.

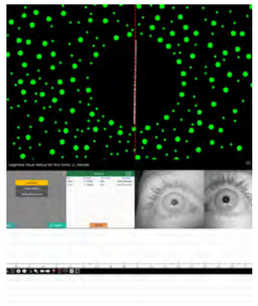
Balance Eye

Complete vestibular diagnosis

Designed for accuracy and ease, the VNG Eye delivers comprehensive eye movement analysis using dual infrared cameras and advanced software. From saccades to nystagmus, every test is streamlined into a single, lightweight system –ideal for clinics, labs, and portable use.



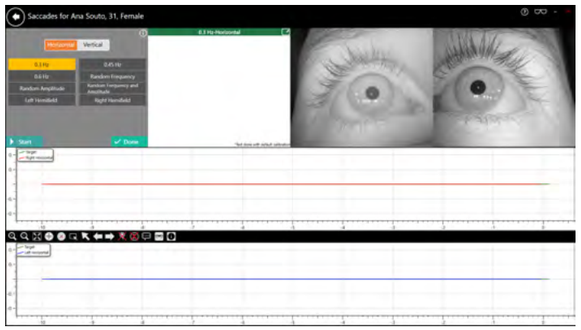


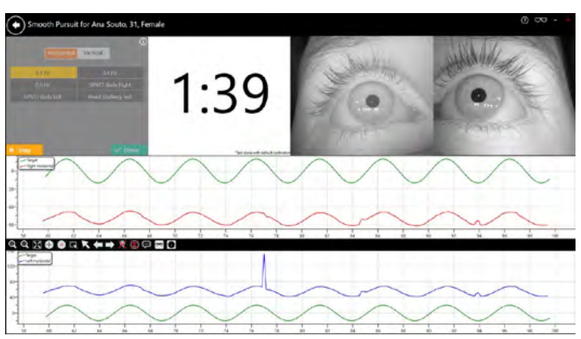


Complete Balance Assessment

Tests included

- Saccades
- Smooth Pursuit
- Optokinetic Test
- Caloric Test
- Nystagmus
- Gaze Test
- Positional Tests
- Subjective Visual Vertical (SVV)
- Video Frenzel / Open Test









High Frequency

(60 FPS / EYE)

Binocular Testing for Increased Accuracy



- All in one device
- Anywhere diagnosis
- Binocular examination
- Remote control navigation
- Secondary monitor
- Mirrorless technology
- Advanced pupil tracking
- Easy interface and navigation
- Intelligent Interpretation

Simple and sophisticated

Fast. Accurate. Reliable. Affordable.

TECHNICAL SPECIFICATIONS

Camera	Head mounted binocular near vision IR cameras
Sampling Rate	60 FPS each eye
Interface to PC	1 single cable USB
Resolution	640 x 480 px
Weight	350gr (including cable)

PC MINIMUM REQUIREMENTS

Computer

It is mandatory to have the minimum requirements to guarantee proper functioning of the system

Processor (CPU)	**Intel i7 11th/12 gen** Avoid 'U' or 'G7' versions of processors
RAM	**16 GB**
Ports	**Minimum 1 USB 3.0 and 1 HDMI**
Operating System	**Windows 10 or 11 (64 bits)**
Recommended Screen Resolution	**1920 x 1080 px**

REGULATORY

- CE Medical Device Class IIa
- According to Medical Device Regulation (MDR) EU 2017/745 of the European Parliament
- Notified Body: **TÜV SÜD**
- Documentation: **Declaration of Conformity**
- Basic UDI: **890616324BED21M286**
- Country of origin: **India**
- Warranty: **2 years**

what is the best solution for me?

a comparative guide

For expert advice, schedule a 15-minute meeting with us or send a instant message.

+351 965 146 382

www.physiosensing.net

	Podo	Balance Rehab Station	Posturography Station	Otoneuro System	Balance Basic
Technology					
Plate	1600 resistive sensors	1600 resistive sensors	4 load cells	4 load cells	4 load cells
Virtual Reality Headset	-	⊗	⊗	✓	⊗
Inertial sensor	-	-	-	✓	-
Feet Pressure Map	👣	👣	✗	✗	✗
COP Accuracy	+ + + + +	+ + + + +	+ + + + +	+ + + + +	+ + + + +

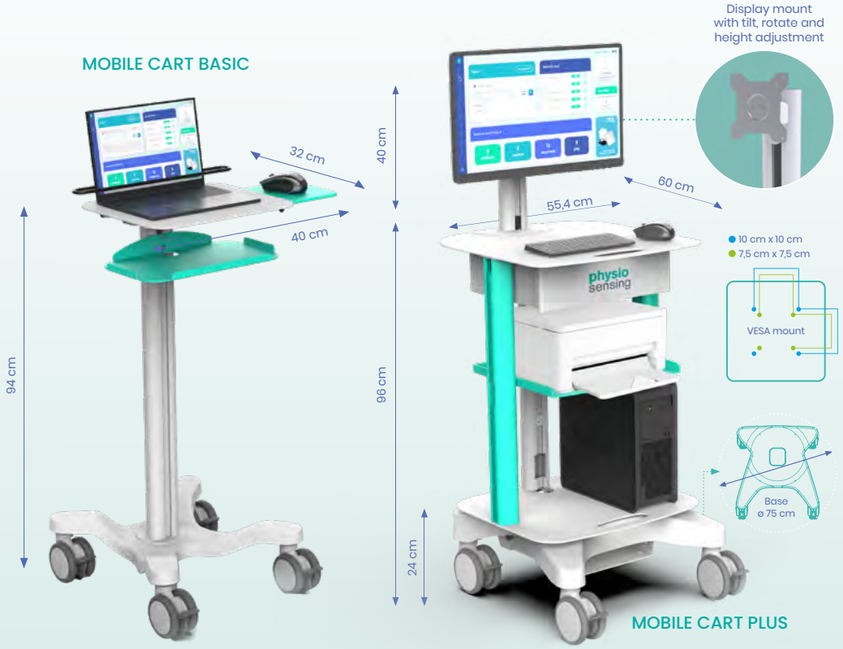
	Podo	Balance Rehab Station	Posturography Station	Otoneuro System	Balance Basic
Assessment Protocols					
Balance Assessment Protocols					
mCTSIB	⊗	✓	✓	✓	✓
Romberg Test	⊗	✓	✓	✓	✓
Body Sway	⊗	✓	✓	✓	✓
Limits of Stability	⊗	✓	✓	✓	✓
Fall Risk	⊗	✓	✓	✓	⊗
Rhythmic Weight Shift	⊗	✓	✓	✓	⊗
Unilateral Stance	⊗	✓	✓	✓	✓
BESS	⊗	✓	✓	✓	✓
Sit to Stand	⊗	✓	⊗	⊗	⊗
Total Balance Pro	⊗	✓	⊗	⊗	⊗
Vestibular Ocular Reflex Functional Assessment Protocols					
Dynamic Visual Acuity	⊗	⊗	⊗	✓	⊗
Gaze Stabilization Test	⊗	⊗	⊗	✓	⊗
Cervical Propioception Assessment Protocol					
Cervical Joint Position Error Test	⊗	⊗	⊗	✓	⊗
Visual- Vestibular Interaction Assessment					
Optokinetic Test	⊗	⊗	⊗	✓	⊗
Baropodometric Assessment Protocols					
Static Analysis	✓	✓	⊗	⊗	⊗
Postural Analysis	✓	✓	⊗	⊗	⊗
Dynamic Analysis (Gait)	✓	✓	⊗	⊗	⊗
Weight-Bearing Squat	⊗	✓	⊗	⊗	⊗

	Podo	Balance Rehab Station	Posturography Station	Otoneuro System	Balance Basic
Training Exercises and Games					
Balance Training Exercises					
Balance and Stability	⊗	✓	✓	✓	✓
Figures and Paths	⊗	✓	✓	✓	✓
Random Points	⊗	✓	✓	✓	⊗
Visual Stimulus	⊗	✓	✓	✓	✓
Protocol Training	⊗	✓	✓	✓	⊗
Load Charts	⊗	✓	✓	✓	✓
Cervical Proprioception Training Exercises					
Figures and Paths	⊗	⊗	⊗	✓	⊗
Random Points	⊗	⊗	⊗	✓	⊗
Visual Stimulus	⊗	⊗	⊗	✓	⊗
Vestibular Rehabilitation Habituation Exercises					
Virtual Reality Optokinetic Tunnels	⊗	⊗	⊗	✓	⊗
Virtual Reality Optokinetic Bars	⊗	⊗	⊗	✓	⊗
Virtual Reality VOR suppression	⊗	⊗	⊗	✓	⊗
Virtual Reality Environments	⊗	⊗	⊗	✓	⊗
Virtual Reality Videos 360º	⊗	⊗	⊗	✓	⊗
Vestibular Rehabilitation VOR and Oculomotor Exercises					
VOR	⊗	⊗	⊗	✓	⊗
Saccades	⊗	⊗	⊗	✓	⊗
Smooth Pursuit	⊗	⊗	⊗	✓	⊗
Vergence	⊗	⊗	⊗	✓	⊗
Fixation	⊗	⊗	⊗	✓	⊗
Balance Games					
Pong & Ball Balance	⊗	✓	✓	✓	✓
BART	⊗	✓	✓	✓	✓
2D game	⊗	✓	✓	✓	✓
Slime Pong & Slime Run	⊗	✓	✓	✓	⊗
Space away	⊗	✓	✓	✓	⊗
Break your balance	⊗	✓	✓	✓	⊗
Motor-cognitive – Memory Game	⊗	✓	✓	✓	⊗
Vestibular Rehabilitation VR Game					
Head Flight	⊗	⊗	⊗	✓	⊗

PhysioSensing **Setup**

Take into account the type of computer, whether laptop or desktop, as well as the size of the screen.

We recommend that the PhysioSensing operating setup be planned in advance.







How to get a PhysioSensing?

PURCHASE PROCESS

1. Make a request
Visit our website www.physiosensing.net or send email to info@sensingfuture.pt

2. Qualification meeting
In this brief meeting (15 minutes) we will understand what you are looking for. We can also provide technical and scientific advice. This can be done by phone, video call, or instant messaging.

3. Demonstration and Solution Definition
At this stage we will show you how the system works and confirm that it is exactly what you are looking for.

4. Proposal
Preparation of the proposal: defining product, shipping, accessories and payment method.

5. Acceptance of proposal
Signature of the proposal by the client, as acceptance and confirmation.

6. Payment
Payment can be made by bank transfer or credit card.

7. Shipping
We ship to all countries in the world. Goods are sent by carrier (UPS, DHL or other). Outside of European Union, you may have to pay customs fees upon entry into your country in accordance with the law of the country.

8. Setup
Once you receive the system, you have everything you need to get started. If necessary, we will provide installation support via video call. You will also have a 30-minute initiation training.

9. Warranty and Support
Your product has a 2-year warranty. We support the customer, and within a maximum period of 24 hours you have a feedback. We provide a fully remote support system, where 99% of our requests get resolved remotely. Since the beggining of our activity, we have never had the need to replace or repair any installed equipment.

10. Training
We have clinical practice training available for using your new system, which can be acquired at the time of purchase, or later when you feel the need.

Training

Why PhysioSensing Training?

In the dynamic field of healthcare, continuous growth is not just an option. Training is the key to preventing professional stagnation. Without this commitment to growth, we risk becoming outdated, emphasizing that investing only in cutting-edge technology is not enough.

TRAINING TOPICS

- Fundamentals of Human Balance System
- Clinical practice & Case studies
- Fundamentals of Balance Training
- Introduction to Posturography
- Introduction to PhysioSensing
- Updated scientific evidence
- Balance Assessment Protocols

TRAINING CONTEXTS:

- For all PhysioSensing users
- Recycle knowledge from a team of rehabilitation professionals
- Lectures, webinars and seminars

Ana Souto, a physiotherapist with a master's degree in human physiology, specializes in neurobiology as the clinical specialist at PhysioSensing. Leveraging her expertise in scientific research, she crafts personalized assessment and training plans, ensuring users receive the most effective care based on the latest scientific findings. Beyond program design, Ana guides new clients and provides advanced training and support to existing customers, deepening their clinical practice knowledge.

Our Specialist



ANA SOUTO

6 pratical tips
FOR GOOD USE

1 Ensure a **physical space** dedicated to Physiosensing.

2 Turn on Physiosensing **every day**. Always have it available for a quick evaluation!

3 Guarantee one or two people who **specialize** in the use of the equipment and who can train others. Ensure people are willing and happy to learn.

4 Test **yourself** before using with patients.

5 Define internal **procedures** depending on the pathology evaluation phase during the recovery process.
Write the procedures!

6 Make **case studies** and publish them!
It's good reputation for your clinic.
Promote your innovative methods.



Scientific publications

Some scientific publications of PhysioSensing users

Gray Matter Volumes Mediate the Relationship Between Disease Duration and Balance Control Performance in Chronic Ankle Instability.

Xu et al., 2024

- Balance control
- Brain structure
- MRI
- Musculoskeletal injuries
- Force Plate

Investigation of the Relationship between Vestibular Disorders and Sleep Disturbance.

Mutlu & Topcu, 2022

- Vestibular Disorders
- Sleep Disturbance
- Limits of Stability
- Force Plate.

The Effect of a Resistance Training, Detraining and Retraining Cycle on Postural Stability and Estimated Fall Risk in Institutionalized Older Persons: A 40-Week Intervention

Rafael Nogueira Rodrigues, et al. , 2022

- Fall Risk
- Elderlry Population
- Postural Stability
- Strenght exercise
- Force Plate

Virtual Reality to Improve Postural Control in Patients with Schizophrenia: Study Protocol for a Single-Blind Parallel Group Randomised Controlled Trial.

Cunha et al., 2021

- Virtual Reality
- Postural Control
- Pressure Plate

Immediate Effects of Aquatic Therapy on Balance in Older Adults with Upper Limb Dysfunction: An Exploratory Study

Maria Graça, et al., 2020

- Aquatic Physiotherapy
- Standing Balance
- Force Plate

Multifactorial Screening Tool for Determining Fall Risk in Community - Dwelling Adults Aged 50 Years or Over (FallSensing): Protocol for a Prospective Study

Anabela Correia Martins, et al., 2018

- Fall Risk
- Pressure Plate
- FallSensing screening tool
- Dwelling Adults

Diagnosis and Assessment of Chronic Imbalance due to Saccular Disfunction: Using Trapezius cVEMP in a Patient with Surgically-Altered Sternocleidomastoid Muscle.

Georgescu et al., 2025

- Dizziness
- Saccular Dysfunction
- Vestibular Syndrome
- Pressure Plate

Individualized transcranial direct current stimulation combined with foot core exercise improves foot and ankle sensorimotor function and static postural control in individuals with chronic ankle instability.

Zhang et al., 2025

- Postural Control
- Chronic Ankle Instability
- Force Plate

Balance Control Deficits are Associated With Diminished Ankle Force Sense, Not Position Sense, in Athletes With Chronic Ankle Instability.

Xiao et al., 2024

- Balance Control
- Proprioception
- Sports
- Force Plate

Comparing Machine Learning Approaches for Fall Risk Assessment

Joana Silva, et al., 2017

- Fall Risk
- Pressure Plate
- Machine Learning

Screening tool to assess the risk of falling

Alcino João Silva de Sousa , 2017

- Pressure Plate
- Fall Risk
- Machine Learning

Case-Based Study of Metrics Derived from Instrumented Fall Risk Assessment Tests

Anabela Correia Martins, et al. , 2016

- Force Plate
- Fall Risk
- Case Study
- Postural Control

Learning

visit our **blog**

High value content on Stabilometry, Baropodometry and Virtual Reality.

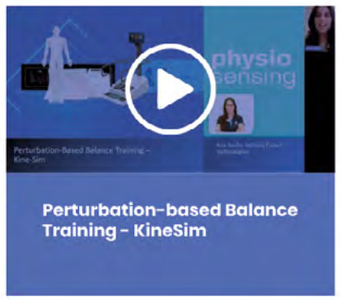


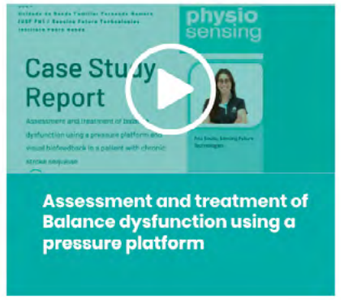
All you need to know!

www.physiosensing.net/blog

watch our **webinars**

www.physiosensing.net/webinars

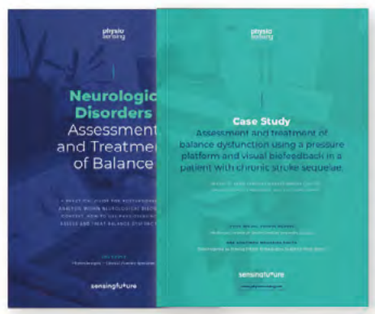






download **free resources**

www.physiosensing.net/free-resources



E-books

› **Neurologic Disorders:** Assessment and Treatment of Balance

› **Case Study:** Assessment and treatment of balance dysfunction using a pressure platform



Infographic Poster

Balance Mechanisms

Contact us

e-mail
info@sensingfuture.pt

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+351 965 146 382



book now

Assistance with our clinical practice specialist

ANA SOUTO

Physiotherapist
Clinical Practice Specialist

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Need help **choosing the right solution?**

ask us

- Technical and scientific advice
- Demonstration
- Quotation
- Redirect to our distributor
- Technical support
- Training program & Webinars
- Product Innovation and scientific projects
- Large scale production and OEM's
- Projects and public tenders
- Integration with your product

sales in more than 50 countries

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