

The balanceback™ Dynamic Postural Stability Platform™ (DPSP™)

The balanceback™ Dynamic Postural Stability Platform (DPSP™) incorporates advanced patent-pending technology that aids in the rehabilitation of patients with balance or mobility problems due to a variety of causes including vestibular, stroke, neuromuscular and joint injuries. It provides comprehensive assessment and retraining for proprioceptive, sensory and neuromuscular conditions that may cause patients to have imbalance on either a stable or unstable support surface. Patients with the following conditions may benefit from evaluation and/or treatment using the balanceback™ Dynamic Postural Stability Platform™:

- Inner Ear / Vestibular Disorders
- Stroke
- Head Injury / Concussion
- Elderly Patients with High Risk of Falling
- Orthopedic Injuries
- Recovery from Orthopedic / Joint Surgery
- Neurodegenerative Diseases (Parkinson's Disease or Multiple Sclerosis).

We guarantee that the balanceback™ DPSP™ is the most technological advanced, functional and result oriented balance, assessment and rehabilitation system in the world!

The Proprietary balanceback™ DPSP™ Software Suite: The complete state-of-the-art DPSP™ Rehabilitation Management Software Suite includes the following proprietary, patent-pending software programs, applications and features:

- DPSP™ Step-By-Step™ Navigational ICONS: User Friendly “Step-By-Step™” Navigational ICONS reduce the learning curve and significantly enhance the practitioner’s ease of use and application when assessing and rehabilitating the patient.
- Patient Medical Intake Modules: Highly advanced and clinically accurate medical intake modules significantly enhance clinical analysis and report writing.
- Assessment & Rehabilitation Software Applications:
 - Diagnostic capabilities for static vision enabled and vision denied tests.
 - Responsive dynamic platform moves in conjunction with a patient’s movements as the patient follows customized graphical displays and visual cues. To improve testing accuracy, patient’s visually see their platform movements in real-time.
 - Dynamic balance assessment is achieved due to the dynamic foot platform’s 360 degree rotational movement and 13 degree tilt.
 - Multiple dynamic balance assessment testing patterns.
 - Accurately assess specific sensory and motor impairments.

- Provides customizable and flexible training protocols that can be used for a variety of impairments.
 - Multiple interactive exercises including mazes, dynamic tracking tests and static tests capable of measuring and tracking the patients' performance; each test can be progressed to improve the patients' capabilities as permitted.
 - Provides positive visual feedback with full field interactive graphical displays that help to self motivate the patient during assessment tests and rehabilitation exercises.
 - Patient data analysis utilizes histograms to accurately measure the progress and treatment results.
- Enhanced Report Writer: Our report writing software provides a written summary report of patient test results and abnormal findings, including scoring and trend analysis associated with the ongoing treatment of the patient. It is updated through Knowledge-Net™.
 - Patient Database Software: Assists the clinician when storing and recalling patient information.
 - Gans Sensory Organization Performance Test™ (Gans SOP™): The Gans SOP™ Test provides clinicians with an easily administered and cost effective method of balance function assessment sensitive to vestibular deficits. The test includes: Balance Performance Foam, CD containing: Manual, Case Studies, Sample Patterns and Test Evaluation Sheet.
 - Knowledge-Net™: 24/7 Internet connectivity provides the practitioner with direct access to receive software updates, test readings and much more.
 - **DPSP™ Computer System Software Specifications:**
 - Windows XP Professional: We have included Microsoft's most advanced operating system to ensure against obsolescence when running our iVNG™ software suite.
 - Security Encryption Software: HIPAA compliant security encryption software protects patient information when burning and storing patient files on DVD.
 - DVD Burning Software: Allows patient records to be burned and stored on DVD using proprietary HIPAA compliant security encryption software.
 - Redundancy Backup Software: Automatically backs up patient records on external hard drive offering redundancy protection against possible failures with primary computer backup system.

- Secure Firewall Software: Protects computer from external breach of confidential patient records.
- Remote Maintenance Software: The balanceback™ Intuitive VNG™ system requires broad bandwidth Internet connectivity to enable 24/7 remote service and repair.
- Antivirus Symantec 2006

The Following “FREE” DPSP™ Software Upgrades Are Guaranteed Within The First 12 Months:

- Auto CPT Report Coding: This software module automatically generates a report of all tests and exercises performed on the patient, along with the proper corresponding CPT codes for each test to assist the billing department in generating the patient’s bill. Rehabilitation provided on the DPSP is Third Party reimbursable.
- The Gans Logic Tree™ Enhanced Report Writer: An innovative evidence based report writing system that provides a more complete profile of patient test results as it collects abnormal findings from all tests and correlates them with the patient medical history. It is updated through Knowledge-Net™.
- DPSP™ Video Professor™: An educational tool offering integrated clinical support and instruction through numerous video prompts to assist with proper patient testing procedures for each and every core assessment test and rehabilitation exercise. It is updated through Knowledge-Net™.
- balanceback™ iVNG™ and DPSP™ Network Connectivity: Both the DPSP™ and iVNG™ software programs are connected by a secure integrated network that allows the clinician to retrieve additional patient diagnostic and medical history information from each program to assist in creating treatment protocols.
- Gans Sensory Organization Performance Test™ (Gans SOP™): Completely integrated into the balanceback™ DPSP™ software program, it offers interactive software test assessment sheets and notes that will be included in the patient summary report.

The Proprietary balanceback™ DPSP™ Hardware Suite: The complete state-of-the-art DPSP™ Hardware Suite includes the following unique, proprietary and patent-pending equipment design specifications:

- Revolutionary Hydraulic - Balance Technology: This proprietary, revolutionary and patent-pending technology integrates incredibly smooth hydraulic-based movement with precision designed, multi-level, balance control. The revolutionary design completely eliminates reliability concerns because, unlike our competitors, there are no Electrical Motors or Air-Bladders to malfunction.
- Our Extra Large Dynamic Postural Stability Platform offers several unique design features:

- Fixed Launch & Return Non-Skid Foot Base: Based on “real life” clinician and patient input, we designed a wide foot base ring that surrounds the Dynamic Balance Platform Exercise / Assessment Plate, allowing the patient to first step onto the fixed foot base from the floor, then grab onto the handrails and wait for the therapist’s command to step onto the dynamic platform plate to begin exercising. After the exercise, the patient could then safely step back onto the fixed foot base, then to the floor; creating a much more safe and stable environment for the patient.
- Dynamic Balance Platform Exercise / Assessment Plate: Our extra large Dynamic Balance Plate comes from the factory completely covered with 3M Non-Skid “Safety Rated” surface material (no partial strips are used like our competitors) to ensure patient safety. The dynamic plate’s movement spec’s include 360 degrees of range, with 13 degrees of tilt; it was designed to comfortably hold over 1000 pounds yielding the world’s first completely integrated balance, assessment and rehabilitation system designed to offer greater range, movement, stability and safety for patients.
- Central Control Console Tube Integrates Adjustable Monitor, Control Knob, Keyboard & Mouse Tray, CPU and Printer.
- In addition, the patent pending hydraulic design allows the platform to display 12 levels of firmness from completely rigid to highly fluid motion giving the physical therapist the ability to individually customize a therapy protocol based upon the patient’s age, weight, height and motor skill capabilities.
- Ergonomically Designed Safety Handrails with cushioned armrest.
- Retractable Wheels Ensuring Ease Of Mobility
- With 360 degrees of platform movement and 13 degrees of tilt, the DPSP provides flexibility to test and retrain movements in any direction where preponderance of weakness is recognized.
- The flat panel computer screen offers 360 degrees of rotation with vertical (up and down) movement to accommodate patients comfortably ranging in height below 5 feet and up to 7 feet so that they can look straight ahead while performing their therapy.
- The surface movement can be easily adjusted to 12 different levels of firmness, 3 different levels of sensitivity and multiple time settings to offer extensive testing and training options tailored to meet the individual patient’s needs and capabilities.
- The modular and mobile design offers flexibility of growth and ease of movement.
- DPSP™ Computer System Hardware Specifications:
 - CPU Intel Celeron D
 - 512MB RAM

- 120 GB, 7200 rpm HDD
- Flat screen LCD 20.1 inch monitor with built-in stereo speakers.
- DVD-RW 16X
- Wireless G Network Adaptor
- Optical Keyboard & Mouse
- DPSP™ Computer System Peripherals:
 - HP Deskjet Color Printer
 - LCD Video Projector
 - Video Projector Wall Mount Bracket
 - Belkin Uninterruptable Power Supply (UPS)
 - Western Digital 160GB External Backup Hard Drive
 - Wireless RF Remote
 - S-Video Cables (2)
- DPSP™ Computer System Installation Requirement: Broad bandwidth Internet connection to enable software upgrades and 24/7 remote service and repair.
- Other DPSP™ Equipment:
 - Custom Designed Key Board and Mouse Adjustable & Rotational Shelf.
 - Custom Designed Extended Flat Panel Screen Riser
 - Custom Designed Stainless Steel Printer Shelf.
 - CPU Bracket Holder.