



BALANCE ANALYSIS - STATIC **& REHABILITATION SYSTEM**

Why Balance Assessment & Rehabilitation?

Balance is essential for safe standing, walking and performing everyday activities. It depends on the coordinated functioning of the visual, vestibular, sensory and musculoskeletal systems. Ageing, neurological disorders, stroke, injury, surgery, limb impairment and other conditions can affect this coordination and increase instability and risk of falls.

A Balance Analysis System provides an objective method of assessing a patient's postural stability, weight distribution, body sway and ability to control the centre of pressure. Unlike observation alone, it provides measurable and repeatable data that can help clinicians identify balance deficits, compare left-right asymmetry, assess fall risk and monitor rehabilitation progress.

The same system can also be used for interactive balance rehabilitation. Through real-time visual biofeedback and VR-based exercises, patients learn to control weight shifting, posture and movement while actively participating in therapy.

Depending upon the model, the system can be used for:

- ✓ Static and postural stability assessment
- ✓ Weight-bearing and symmetry analysis
- ✓ Fall-risk assessment
- ✓ Limits of Stability and controlled weight shifting
- ✓ Double-leg, single-leg and tandem-stance assessment
- ✓ Sitting balance and trunk-control rehabilitation
- ✓ Assessment of children, amputees and artificial-limb users
- ✓ Supported standing rehabilitation for severely impaired patients
- ✓ Visual biofeedback and VR-based balance training
- ✓ Advanced visual-disturbance balance rehabilitation

Four Models for Different Clinical Requirements

Oceanic Balance Analysis Systems are available in four configurations — Models A, B, C and D — ranging from a basic fixed-position assessment system to an advanced accessible balance rehabilitation system with supported standing and visual-disturbance training

MODEL A

MODEL B

MODEL C

MODEL D

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BALANCE ANALYSIS (STATIC) & REHABILITATION SYSTEM

Model Comparison & Pricing

Features	MODEL A	MODEL B	MODEL C	MODEL D
Status	Previous Model	Basic Model	Advanced Model	Premium Model
Standing Position	Fixed foot position	Flexible — patient can stand anywhere	Flexible — patient can stand anywhere	Flexible — patient can stand anywhere
Adults	✓	✓	✓	✓
Children	Limited suitability	✓	✓	✓
Patients with abnormal stance / leg impairment	Limited	✓	✓	✓
Artificial limb / amputee assessment	Limited	✓	✓	✓
Wheelchair Patient Accessibility	————	————	✓	✓
Secured Standing Harness System	————	————	✓ Included	✓ Included
Sitting Balance / VR Therapy	————	✓	✓	✓
Computer System	Separate Windows computer required	Embedded proprietary system	Embedded system	Embedded system
Keyboard / Mouse	Required	Not required	Not required	Not required
Operating Display	Separate computer monitor	21.5" Touchscreen	10" Touchscreen	10" Touchscreen
Large Patient Feedback Display	————	21.5" touchscreen (Same as above)	43" HD display on adjustable stand	Larger immersive display system
Visual Balance Disturbance System	————	————	————	✓ Isokinetic Projection System
Assessment Capability	Limited	Advanced	Advanced + accessible rehabilitation	Advanced + visual disturbance training

Model Details — Complete Specifications

BALANCE ANALYSIS - STATIC & REHABILITATION SYSTEM

MODEL A

PREVIOUS MODEL

Balance Analysis System

Designed around a fixed foot-position system, requiring the patient to place both feet at designated locations on the platform.

- Limited range of balance assessment tests.
- Primarily suitable for adults with conventional standing posture.
- Limited suitability for children, amputees, artificial-limb users and patients with abnormal standing patterns.
- Requires a separate Windows-based computer.
- Keyboard and mouse/keypad required for patient data entry and system operation.
- Dependent on Windows operating-system compatibility, updates and computer maintenance.

Status: Previous Model and replaced by more versatile embedded-system models.



MODEL B

BASIC MODEL

Advanced Balance Analysis & Sitting/Standing Rehabilitation System

A significantly more versatile system allowing flexible patient positioning without fixed foot placement.

- Patient can stand at different positions on the platform according to clinical requirements.
- Suitable for both adults and children.
- Accommodates patients with leg impairment, artificial limbs and altered standing patterns.
- Supports single-leg, double-leg, tandem stance and amputee balance assessment.
- Sitting platform enables sitting balance, trunk-control and VR-based rehabilitation for patients unable to stand independently.
- 21.5" touchscreen for system operation, assessment and visual biofeedback.
- Embedded proprietary computer system.
- No separate computer, keyboard or mouse required.
- Independent of Windows operating-system upgrades and compatibility issues.

Best suited for: Physiotherapy departments, rehabilitation centres and hospitals requiring comprehensive sitting and standing balance assessment and rehabilitation.



MODEL C

OCEANIC ADVANCED MODEL

Advanced Accessible Balance & Rehabilitation System with Harness

Includes the advanced capabilities of Model B with additional provisions for patients requiring greater accessibility and support.

- Larger balance platform designed to facilitate direct wheelchair access and assisted patient positioning.
- Suitable for children and adults with different functional capabilities.
- Designed to accommodate wheelchair-dependent and severely mobility-impaired patients.
- Secured standing harness system included for supported balance assessment and rehabilitation.
- Sitting platform for sitting balance, trunk-control and VR rehabilitation.
- Embedded computer system.
- No separate computer, keyboard or mouse required.
- 10" touchscreen for therapist/system operation.
- 43" HD patient-feedback display on an adjustable stand for assessment, biofeedback and therapy.

Best suited for: Advanced rehabilitation centres, neurological rehabilitation, wheelchair-dependent patients and institutions treating patients across a wide range of functional abilities.



MODEL D

OCEANIC PREMIUM MODEL

Premium Balance Analysis, Rehabilitation & Visual Disturbance System

Includes all features of Model C, with an advanced visual environment for higher-level balance assessment and rehabilitation.

- Complete Model C assessment and rehabilitation capabilities.
- Large immersive visual display.
- Isokinetic Projection System for controlled visual balance disturbance.
- Enables therapists to challenge postural stability by introducing controlled visual disturbances during balance training.
- Suitable for advanced balance, neurological, vestibular and postural-control rehabilitation.
- Allows progression from basic supported balance exercises to more challenging sensory and visually demanding rehabilitation.

Best suited for: Tertiary hospitals, neurological and vestibular rehabilitation centres, research institutions and advanced balance laboratories.

