

Science made smarter

CDP/IVR & Prime IVR

Balance rehabilitation
made precise

Next Generation
Computerized
Dynamic
Posturography



Balance Quest
by Interacoustics


Interacoustics

Audiometry

Tympanometry

ABR

OAE

Hearing Aid Fitting

Balance


Bertec® CDP/IVR

What is Computerized Dynamic Posturography (CDP)?

CPD is a non-invasive balance assessment tool that quantifies postural control under both static and dynamic demands. It isolates principal sensory and motor components involved in the control of posture and balance and quantifies impairments that cause the patient balance problems. CDP also assesses the adaptive mechanisms and biomechanical factors that allow us to maintain balance and safely move about our environment successfully.



Next generation CDP

Bertec's extensive biomechanical engineering experience enables a technologically superior and clinically robust computerized dynamic posturography system. The use of immersive virtual reality unlocks endless training and visual assessment scenarios previously unavailable to clinicians and simply impossible with a mechanical sound.

Training with immersive, virtual stimuli

Increase patient adaptability, variability, and motivation with immersive and modular experiences for patients at any level of treatment and recovery. Create compelling visual conflict with a library of stimuli which allow real time modification of difficulty parameters as you work side-by-side with your patient. The training protocols represents Activities of Daily Living (ADL).

Ergonomic design

The CDP/IVR™'s low step-up profile provides easy access for your patients suffering from dizziness, balance problems and/or motion sensitivity. The dynamic motion base intelligently hides its hinges to avoid physical and psychological trip hazards. Stay close and hands-on with your patient on the dedicated static clinician area with our wireless remote.

Immersive virtual reality - IVR

To be fully immersive, the visual scene must envelope full field of view. IVR puts the patient in the scene involving the entire visual system - both central as well as peripheral. The horizontal field of view extends to approximately 220 degrees and app. 150 degrees vertically providing an immersive experience for your patient.

CDP/IVR functional assessment protocols

- Sensory Organization Test
- Motor Control Test
- Adaption Test
- Limits of Stability
- Rhythmic Weight Shift
- Weight Bearing Squat
- Unilateral Stance

CDP/IVR training protocols

- Quick training
- Mobility
- Closed chain
- Weight shifting
- Seated training
- Immersive virtual reality training scenes
- Optokinetic visual stimulus

Bertec® Prime IVR

New solution to provide IVR rehabilitation

Provide therapy to patients at a higher level by utilizing immersive virtual reality to perform assessments and enhanced clinical balance training. This unique product combines the flexibility of a small, force plate with the power of Immersive Virtual Reality (IVR) training scenes.

Versatility of multiple visual scenes

Provide your patients an interactive and modular experience through an immersive virtual environment with visual surround. Create visual conflict with and without immersive virtual reality backgrounds depending on the needs of your patient. The Bertec® Prime IVR™ adds Immersive Virtual Reality (IVR) to enhance clinical balance training. The distinctive dome used in the Bertec Computerized Dynamic Posturography system is combined with a fixed dual-balance force plate to bring clinicians the power and flexibility of IVR training scenes.

Customized therapy

The Bertec® Prime IVR™ includes a suite of assessments as well as training options to provide targeted and customized therapy for patients suffering from dizziness, balance problems and/or motion sensitivity. Because the training images are projected into the IVR dome, the clinician can choose from a variety of training scenes depending on the needs of the patient.

Prime IVR assessments protocols

- Modified Clinical Test for Sensory Integration in Balance
- Limits of Stability
- Rhythmic Weight Shift
- Weight Bearing Squat
- Unilateral Stance

Prime IVR training protocols

- Quick training
- Mobility
- Closed chain
- Weight shifted
- Seated training



Science made smarter

Interacoustics is more than state-of-the-art solutions

Our mission is clear. We want to lead the way in audiology and balance by translating complexity into clarity:

- Challenges made into clear solutions
- Knowledge made practical
- Invisible medical conditions made tangible and treatable

Our advanced technology and sophisticated solutions ease the lives of healthcare professionals.

We will continue to set the standard for an entire industry. Not for the sake of science. But for the sake of enabling professionals to provide excellent treatment for their millions of patients across the globe.

Interacoustics.com

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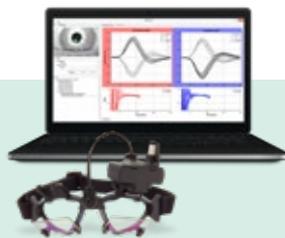
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Product specifications

All technical and hardware specifications concerning all products can be downloaded from our website.


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