

MotionVR

Computerized Dynamic Posturography (CDP) & Rehabilitation Motion Simulator with Virtual Reality

Vestibular, Concussion, Chronic Pain, Orthopedics, Neurologic and so much more



DEVELOPED BY A PHYSICAL THERAPIST WITH MORE THAN 10 YEARS OF R&D

and a **Worldwide Scientific collaboration** with recognized Scientists and Practitioners:

Clinical validation
+
Solution optimization = Continuously exceed for your Clinical needs

IMMERSIVE REHABILITATION (with or without) VIRTUAL REALITY (using a flat TV screen or monitor)

- **360 degrees smooth moving dynamic force plate** with up, down and linear translations (4 degrees of freedom, **MotionVR+** model)
- **Easy customization of movements** adjustable by axis, velocity and range of motion
Reinforced implication of the patient with the feeling of controlling his/her own rehabilitation
- **Increased patient motivation and decreased Pain⁽²⁾**
- **Dual task Rehab** - Upper Extremity

ACCURATE & STANDARDIZED ASSESSMENTS:

- **Fast, precise and reproducible Assessments**
- **Precise analysis & quantification of Balance and Mobility**
- **Continuous and precise adaptation** - depending on patient progress
- **Easy & fast printable reports** - for referring practitioners

“**Our patients are loving our new system and are getting challenged with much more advanced technology, which means greater and quicker recovery periods.***

Jerry Yarborough, Doctor of Physical Therapy / Owner at Fyzical Therapy and Balance Centers ”

(1) Non-contractual graphic representation

(2) Source: Hoffman, H. G., Richards, T. L., Coda, B., Bills, A. R., Blough, D., Richards, A. L., and Sharar, S. R. (2004). Modulation of thermal pain-related brain activity with virtual reality: evidence from fMRI. *Neuroreport*, 15(8), 1245-1248.



Virtualis

See beyond reality

LIST OF SOME ASSESSMENT AND REHABILITATION MODULES AVAILABLE WITH MOTIONVR

ASSESSMENTS

SOT - Sensory Organization Test 3D (Wavelet Analysis + Motor Polar Representation)
Motor Control Test*
ADT - Adaptation Test
Head-Shake Sensory Organization Test (HS-SOT)
LOS - Limits of Stability
Weight Distribution
Unilateral Stance
Coming soon: , Rhythmic Weight Shift (RWS), Instrumented BESS, Weight Bearing Squat (WBS)...

REHABILITATION

AirRaceVR (postural control, spine rehab...)
BirdVR (postural control with dual-task exercises UE)
LOS Rehab (Limits of Stability Rehabilitation)
Motion Program (Motion Control by pulses/inclinations)
Center of Pressure Pursuit (biofeedback, precision, transfer support amplitude)
SkiVR (transfers of medial-lateral supports)
Sway Referenced Visual Environment
Weight Bearing Training
Coming soon: WalkVR...

STATE-OF-ART TECHNOLOGIES

- **User friendly software interface** – designed for multiple applications
- **XL Force plate** - with 8 sensors
- **Weight distribution** (right/left and anterior/posterior)
- **Force plates reactivity:** 3 Degrees of Freedom (4 Degrees with **MotionVR+** model); 2G acceleration; 11.0236 in/s speed; front/back: 24° amplitude; left/right: 26° amplitude; up/down: 5.90 in
- **Safety structures** - customizable height of the bodyguard or harness structure
- **Compact footprint** - 4ft diameter

MotionVR options to building your practice and referrals:



Optional: the software can be used without VR using a big screen tv or monitor

NB: The MotionVR CDP is compatible with some of the software included in the BalanceVR offer which must therefore be installed on the same computer. Note that the acquisition of MotionVR does not include a second license to use this software.

COMPATIBLE REHABILITATION SOFTWARE

Optical Flow
Sea simulation

* Available with **MotionVR+** model



CE
Risk class 1 medical device
Regulation (UE) 2017/745

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