

MotionVR

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



With harness structure

Concussion, Balance, Orthopedics, Chronic Pain, Sports Medicine, 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*
- 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

new MotionVR+ now available with translations

“ 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

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

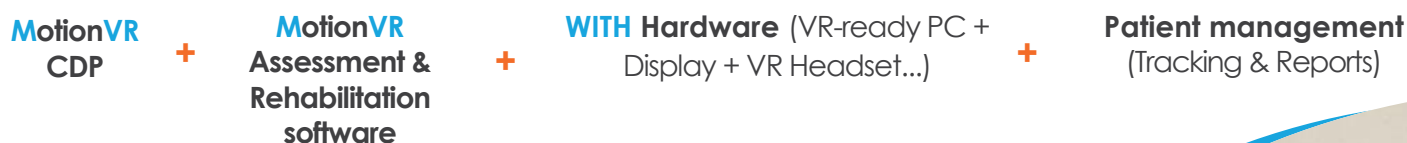
REHABILITATION
AirRaceVR (postural control, spine rehab...)
BirdVR (postural control with dual-task exercises UE)
Center of Pressure Pursuit (biofeedback, precision, transfer support amplitude)
LOS Rehab (Limits of Stability Rehabilitation)
Motion Program (Motion Control by pulses/inclinations)
SkiVR (transfers of medial-lateral supports)
Sway Referenced Visual Environment
Weight Bearing Training
WalkVR (weight-shifting marches to simulate walking through a virtual forest)

STATE-OF-ART TECHNOLOGIES

- **User friendly software interface** – designed for multiple applications
- **Dual XL Force plates** - with 8 sensors (4 each)
- **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

www.virtualisvr.com

908-489-9499

contact@virtualisvr.com

