

# PhysioVR

## Virtual Reality Assessment & Rehabilitation solution

Upper & Lower Extremity, Vestibular, Neurologic, Orthopedics, Sports Medicine and so much more

### DEVELOPED BY PT'S AND OT'S

and a Worldwide Scientific collaboration with recognized Scientists and Practitioners:

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

- **Innovative full sensory immersion** simulating physical presence in an interactive environment
- **Easy to use distraction interventions** - diversion of attention to increase patient compliance
- **Increased patient motivation** through the immersive entertaining dimension and results
- **Effective real-time customized adaptation** designed around patient progress
- **Dual task Rehab** - Upper Extremity
- **Pain reduction\***

### STATE-OF-THE-ART TECHNOLOGIES WITH UNLIMITED APPLICATION RANGE



**Reflex VR module** - Reaction time, Accuracy, Amplitude, Coordination (Upper/Lower Extremity)



**VR Mirror Therapy** - Stroke, Amputees, Algodystrophy treatments



**Cervical and Upper Extremity ROM Assessments** - in only a few seconds



**Postural Stability, Gaze Stability, Perceptual Orientation and Joint Proprioception** - Various Assessments & Rehabilitation modules



**Virtualis**

See beyond reality

\* 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.

## LIST OF SOME PHYSIOVR MODULES (all the modules on demand)

Examples of Applications	Examples of Assessments & Rehab exercises
Spine in the 3 planes	<b>ASSESSMENTS:</b> Cervical ROM, Cervicocephalic Relocation Test (Joint Position Error Test)... <b>REHABILITATION:</b> AirRaceVR, Spine RotationVR, SpineVR, Head-Eye Coordination...
Concussion	<b>ASSESSMENTS:</b> Cervicocephalic Relocation Test (Joint Position Error Test), hCTSIB (CTSIB Headset Measures), RFT-Rod & Frame Test, SVV-Subjective Visual Vertical, Dynamic SVV... <b>REHABILITATION:</b> ReflexVR, Electrical Track, Target Tracking, Optokinetic, Optical Flow, EscalatorVR, CrowdVR...
Lower Extremity	<b>ASSESSMENTS:</b> hCTSIB (CTSIB Headset Measures)... <b>REHABILITATION:</b> ReflexVR, SquatVR, Optical Flow...
Upper Extremity	<b>ASSESSMENTS:</b> Upper Limb ROM... <b>REHABILITATION:</b> ReflexVR, ShoulderVR, Electrical Track, Upper Limb Pursuit, BowVR, Mirror Therapy, Mirror & Ball, Mirror & Objects...
Hemiplegia	<b>ASSESSMENTS:</b> Hemineglect, Bells Test VR... <b>REHABILITATION:</b> Target Tracking, Mirror Therapy, Mirror & Ball, Mirror & Objects, RelaxationVR...
Algodystrophia	<b>REHABILITATION:</b> Mirror Therapy, Mirror & Ball, Mirror & Objects...
Proprioception	<b>ASSESSMENTS:</b> Cervicocephalic Relocation Test (Joint Position Error Test), hCTSIB (CTSIB Headset Measures)... <b>REHABILITATION:</b> ReflexVR, Optical Flow, Optokinetic...
Balance/Fall prevention	<b>ASSESSMENTS:</b> Cervicocephalic Relocation Test (Joint Position Error Test), hCTSIB (CTSIB Headset Measures), RFT-Rod & Frame Test, SVV-Subjective Visual Vertical, Dynamic SVV... <b>REHABILITATION:</b> ReflexVR, Electrical Track, Target Tracking, Optokinetic, Optical Flow, EscalatorVR, CrowdVR...
Chronic Pain/Kinesiophobia	<b>ASSESSMENTS:</b> Cervical ROM, Upper Limb ROM... <b>REHABILITATION:</b> RelaxationVR, BowVR, Mirror Therapy, Mirror & Ball, Mirror & Objects, ShoulderVR, Electrical Track...
Cognition	<b>ASSESSMENTS:</b> Memorization, StroopVR... <b>REHABILITATION:</b> Mirror Therapy, Mirror & Ball, Mirror & Objects, SupermarketVR...
Sports Medicine	<b>ASSESSMENTS:</b> hCTSIB (CTSIB Headset Measures), Upper Limb ROM... <b>REHABILITATION:</b> ReflexVR, SquatVR, Optical Flow, ShoulderVR, Electrical Track, Upper Limb Pursuit, BowVR, Mirror Therapy, Mirror & Ball, Mirror & Objects...

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“ Literally, I have several stroke patients with serious hemiparesis issues especially of the upper extremity and so we’ve been using the mirror image, and we’re also using the head eye coordination type activities for them

Mike Strakal, Owner of two Therapy & Balance Centers in Tulsa & Owasso, OK

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[www.virtualisvr.com](http://www.virtualisvr.com)  
908-489-9499  
[contact@virtualisvr.com](mailto:contact@virtualisvr.com)

