

# Achieve More

## with Non Invasive VRNT

Mieron's Virtual Reality NeuroTherapy library is full of experiences for all levels of mobility. Easy to navigate and less than minutes to launch into an interactive therapeutic VR experience.

The VRNT system can be utilized on it's own or with other adaptive equipment including wheelchairs, walkers, gait training, FES bikes & resistance bands to get dynamic treatments.

## Contact Us

Email:  
[hello@mieronvr.com](mailto:hello@mieronvr.com)

FB/Instagram/Twitter: @mieronvr

Phone  
+1(626) 466-9040 ext 701

**"Mieron provides  
our clients a flood  
of sensory input  
beyond compare."**

- Jeff Lefkovitz, Founder & Lead Specialist  
Abilities Recovery Center, Los Angeles



2022  
BROCHURE



# Transformative Care

with Virtual Reality NeuroTherapy

[www.mieronvr.com](http://www.mieronvr.com)

# Utilized in the Treatment of

## Acute and Chronic Care / In-Patient & Out-Patient

### ■ Rehabilitation (PT/OT)

Select one of over 20 experiences designed for therapeutic application; gamified principles of physical therapy, occupational therapy and activity based training lead to more reps.

### ■ Pain Management

The transformative effects of VR is clinically proven to reduce the perception of pain by up to 90%, with lasting efficacy outside of the VR session. A non-pharmacological intervention.

## Multimodal stimuli for immersive treatment.

### Case Uses

Stroke  
Spinal Cord Injury (SCI)  
Traumatic Brain Injury (TBI)  
Parkinson's Disease  
Multiple Sclerosis  
Cerebral Palsy  
Musculoskeletal Disorders  
Pain Management  
& more

### Our Principles

With a goal to stimulate the nerve pathways in innovative methods. *MIERON's* VRNT exercises are designed to be immersive, safe, and easy to navigate.

Designed with an emphasis on ease-of-use for both the patient and practitioner.



## About Virtual Reality NeuroTherapy

### The Future Of Medical Technology

### Therapeutic Applications

The *MIERON* VRNT System is an advanced rehabilitation technology featuring a library of therapeutic experiences designed for all levels of mobility. The VRNT experiences are distinguished by their emphasis on functional movements for upper extremity, lower extremity, trunk stability, balance, gait-training, and pain management.

### A Variety of Conditions

*MIERON* is utilized for in-patient and out-patient treatment for individuals requiring physical therapy for chronic pain, long-term rehabilitation, and associated conditions.

Presenting due to age, disease or trauma, *MIERON* can help pediatric and adult patients for SCI, TBI, MS, Cerebral Palsy, and other neurodegenerative and musculoskeletal disorders.

# Testimonials

## Practitioner Toolbox

Don't just take our word for it! With over 10,000 hours of patient use worldwide, Mieron continues to innovate and enhance the patient & practitioner experience.

VRNT Exercises are designed with a high ease of use, and with an Accessibility First approach for users with limited Range of Motion.

Patients are more motivated to fully participate in their rehab outcomes, and with the added incentive of VR many increase the frequency of their rehab sessions and commit to their homework for outstanding gains.

Increase the motivation to participate with gamification of traditional PT practices. The Mieron library infinitely expands your facility walls into an immersive world.



“  
**Our clients are reporting more sensation in their affected areas when we pair FES with MieronVR.**

**Chris Smith**

Executive Director  
Next Step Kansas City

“  
**It does more than pass the time; it's a more interactive environment and instead of looking at a screen with numbers, you feel like you're out on an adventure.**

**Kevin Gnehm**

30 Year Old  
T7 Complete SCI



“  
**From the minute I put on the Mieron headset I realized this was a game changer for kids and adults in rehab to improve their quality of life.**

**Brent Poppen**

C6 SCI, 2 Sport Paralympic Medalist  
Valley Children's Hospital,  
Rehabilitation Counselor

# Built for All Levels of Mobility



## Innovative Systems

With Simplistic Hardware & Software

New technology can seem intimidating, but we have put years of work and research to make the most user friendly software for both time-pressed practitioners and limited range of motion patients. Setup the wireless system and calibrate with the click of one button. Navigate to the desired VRNT experience and click "Start" - audio and visual cues keep the session on track.



### Training Modules

The VRNT system comes with all hardware, software and training included. Setup in under 2 minutes.



### Reference Guides

MIERON includes custom reference guides, so that you can create a treatment plan before entering VR.



### Analytics & Reports

End of experience analytics including reps & output can be securely tracked for charting progress and compliance.

## Outsmarting Pain & Fatigue

With Fun and Immersive Experiences

### Increase Reps, Intensity & Endurance

With natural body responses in the VR environment, and safety features built in to monitor real-world environments. Users enter the immersive VRNT environment and enjoy gamification of gold standard PT/OT techniques. Complete PNF Patterns, Lateral Reach, Trunk Twists, and Balancing Movements to Achieve More.

### Decrease Perception of Pain

Chronic pain, spasticity and impaired mobility are often lifetime conditions that require an engaging physical therapy practice to maintain functional movement. As a clinically validated tool, VRNT can significantly reduce the perception of pain with lasting effects following the VR session.



## Case Use

### Gait Training (SCI)

The Mieron library includes a variety of real-life and animated trails complete with immersive 360 audio and visual stimuli.

Utilize with lite-gait systems, parallel bars, assistive walking devices, or simply on it's own. In harnessed overground training, patients often exhibit more natural body movemets and balance.



Operate with less emphasis on coordinating opposing body movements, and with more natural neuroplasticity.

Engaging weight bearing with reduced pain perception.

**Improve Balance & Weight Shifting**



“  
**a more natural  
reciprocal arm  
motion when  
utilizing Mieron.**

**Amanda Boxtel**

CEO, Bridging Bionics Foundation  
2018 CNN Hero of the Year

## Active New Nerve Pathways

Suspend Disbelief and Imagine in New Ways



Go for a walk on the beach, or take a hike in the woods! Places that may not be wheelchair accessible are now readily available in-clinic. Expand beyond the walls of your facility with immersive new trails.

VRNT modules including gait training have cross functionality, and can be administed for mental wellness breaks. Treat anxiety and depression with a stroll through the park in VR from the comfort of your seat or bed.

## Case Use

### Stroke & TBI

Create patterns, perform sorting, and incorporate gross and fine motor skills during VRNT sessions.

Incorporate speech therapy during co-viewing so that you can make breakthroughs and facilitate speech output. Improve memory and social language functions in safe, controlled environments.

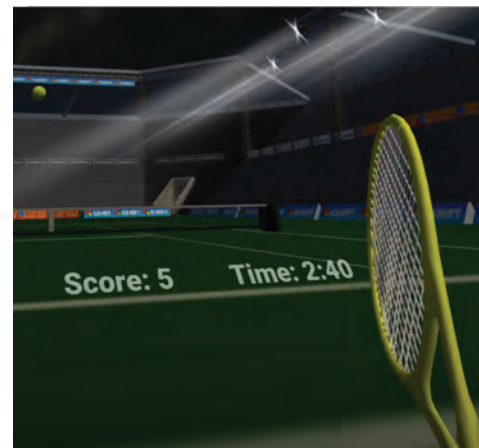


When your motions are tracked, but your eyes no longer see your body in physical space, self imposed limitations are fundamentally disrupted.

**Achieve More Range of Motion**

## Exceed Self Imposed Limitations

### Build Confidence and Endurance for ROM



When balance and coordination are disrupted due to stroke or brain injury, preventative care to reduce the risk of falling is essential. VR is shown to help reduce those risks and improve gait & motor functions.

Work on pattern recognition, recall, completing tasks and gross and fine motor skills in gamified VR therapy modules designed with photosensitivity in mind.



**I moved in ways  
I didn't think  
were physically  
possible after  
my stroke.**

**Mieron Rehab Pro User**  
57 yo Male Stroke Survivor