

## MEDTECH INNOVATION

Patient wellness system through multimodal immersion with high-definition haptics

### 🎧 APPLICATION DOMAINS

- Dental clinics (TRL 9)
- Psychological therapies (TRL 6)
- Hemodialysis sessions (TRL 9)
- Oncology treatments (TRL 9)
- Mobile care and telemedicine (TRL 4)
- Musculoskeletal healing (TRL 6)
- Dementia, depression (TRL 6)
- Gerontology (TRL 9)
- Incubators (different configuration) (TRL 4)
- Pediatrics, autism, etc. (TRL 9)
- Others...

### ⚙️ OPERATING MODES

This patented device immerses the patient in multimedia contents with spatial audio and high-definition haptics.

It includes a versatile haptic cushion, headphones, a wireless remote control and a noise-canceling microphone to communicate with the patient during treatment, without unpleasant background noise.



Its hyperrealistic immersion playbacks public multimedia content from the web or specialized content such as:

Music, films, video games, or podcasts for breathing control, progressive relaxation programs, phobia treatments, music therapy, etc.

It's plug-and-play and installs in 15 seconds on a relaxation chair, medical treatment chair or bed, or mattress.

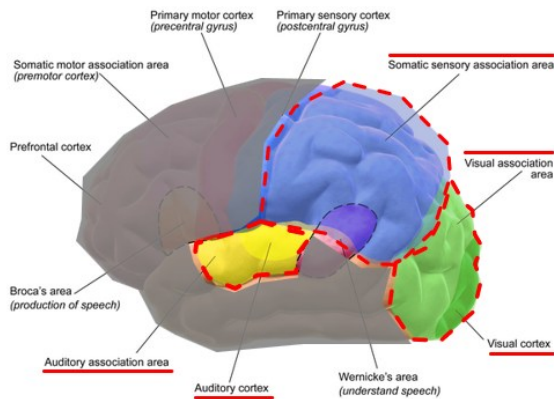


### 👤 USAGE MODES

- Autonomous use by the patient
- Use by practitioner or assistant
- Use by on-site specialist
- Use by remote specialist
- Before, during, or after medical treatments
- With relaxation-oriented programs
- Multimedia distraction programs
- Pain perception control assistance programs
- Specialized psychological treatment programs
- Individual use
- Use with centralized control
- Multi-cushions clustered centralized use
- Installation in relaxation rooms, procedure rooms, or recovery rooms

## 🧬 WHY ADDING HAPTICS OR PHYSICAL SOMATIC SENSATION TO 80% OF THE BODY?

Multimedia rendering with haptics stimulates neurological brain activities by engaging large areas of the brain through spatial audio and somatic stimuli. It's like experiencing the content live in its original environment, while being silent to the medical team.



## ☑️ ADVANTAGES

- Easily integrated into clinical healthcare pathways, institutions, residences, and mobile care
- Alternative or complement to sedatives or anxiolytics
- Ergonomic and comfortable
- No dizziness or discomfort
- 15-second installation (on chair, bed, cushion, treatment table, etc.)
- Plug & Play
- Spatial audio and high-definition haptics for hyperrealistic immersion
- Open multimedia content (Web or local: music, films, games, podcasts, VR, therapeutic content, etc.)
- Disinfection-resistant and easy to clean
- Two simple usage modes: OLED touchscreen remote or clinic computer
- Content stored locally or accessed via WiFi
- No personal patient data stored= secure
- Wireless system
- Compatible with VR / AR headsets or HD TVs for adding visual mode
- Helps to condition difficult, agitated, or anxious patients
- AI personal companion readiness

- Communicate with patients via wireless microphone with enhanced intelligibility and noise reduction

## 🩺 CLINICAL TRIALS

We offer presentations and demo sessions to interested care units.

System available for trial with assistance and support.

Feedback collected via surveys, testimonials, or structured research projects.

Vibemotion solution available upon request.

## 🏢 COMPANY PROFILE

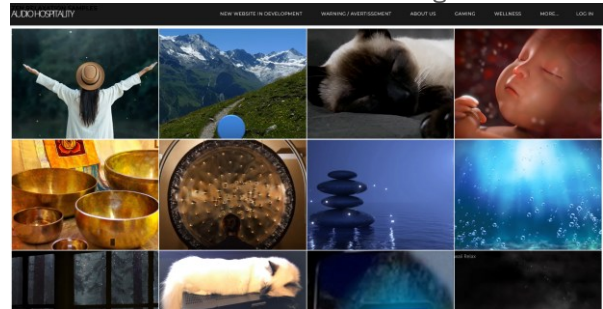
### Technologies Novhaptix Inc.

Registered with the Quebec Business Registry  
5 years of R&D, patented technologies

TRL 9: Means high technology maturity level,  
pre-commercialization

Member of MEDTEQ+, IEEE, IOQ, MPEG-Haptics Group, SMPTE

Web Link: [Relaxation and Pain Management](#)



Yoga music/Breath ctrl  
Cat purring  
Relaxation music  
Rain sound  
Sea sound  
Binaural Beats  
Games

Tibetan singing bols  
Baby heart beat  
Train sound  
Music concerts  
White and Pink Noises  
Movies  
Therapeutic contents

## 🧬 VIBEMOTION AS A BIO SIGNAL HUB

Connect IoT Medical devices such as:

- ✓ ECG, EEG, Motions,
- ✓ Wireless Monitoring Watches
  - SpO<sub>2</sub> and Sleep Score
  - Heart Rythm
  - Respiratory Rythm
  - Skin Temperature
  - Stress
  - PPG Blood Sugar

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# Vibemotion's Configuration Flexibility

Configurations	Audio + DeepHaptics Remote CTRL	Audio + DeepHaptics + PC	Audio + DeepHaptics + Tablette video	Audio + DeepHaptics + Moniteur video	Audio + DeepHaptics Glasses VR - AR
Healthcare Environment					
Remote Care - Home					
Mental Healthcare					
Chemotherapy					
Hemodialysis					
Surgery					
Dental Care					
Geriatrics					

Immersion    
 Patient File    
 Training    
 Communication    
 Bio-Monitoring

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## HOME CARE FUNCTIONS and ASSISTANCE

### SERVICE AGGREGATION

- Continuous Bio-Monitoring
- Patient's Emotion Management
- Patient's Cognitive Training
- Patient's Files and History
- Patient's Environmental Stats
- Patient's Communication
- Patient's AI Companion

### BENEFITS

- ✓ Centralized one to many patients
- ✓ Multimedia / Multisensory Immersion
- ✓ Interactive Videogames
- ✓ Scheduled meetings, instructions, etc
- ✓ Mobility, appliance safety, routines, ...
- ✓ On demand Voice-video communications
- ✓ In testing