

Touchscreen Technology for Visuomotor Rehabilitation

Bioness Integrated Therapy System (BITS™)

The Bioness Integrated Therapy System (BITS™) is an easy-to-use rehabilitation therapy tool designed to evaluate individuals who are experiencing visual field loss, visual-spatial neglect, visual-vestibular integration problems, problem-solving issues, and cognitive challenges.

The BITS™ can be used to enhance and improve hand-eye coordination, peripheral awareness, reaction time, standing tolerance, and cognitive training.

How does the BITS™ work?

With an emphasis on visuomotor training, the portable, touch-screen user interface combines customizable therapy programs with progressing levels of difficulty and the ability to record and track progress over time. Program variables can be tailored to individual needs and abilities.

The engaging activities and auditory feedback make the BITS™ a motivational and energizing therapeutic tool, appropriate for use with adult, pediatric, and geriatric patients.

What are the advantages of the BITS™ therapy?

The BITS™ can be tailored for use by speech-language pathologists, physical therapists, and occupational therapists to address:

- Neurological conditions such as stroke, brain injury, multiple sclerosis, Parkinson's disease, spinal cord injury, Guillain-Barré, and other impairments
- Vestibular training
- Balance training while standing on various surfaces
- Motor reaction, planning, and repetitive task training
- Hand-object-eye coordination activities
- Upper-extremity performance, including overhead reaching
- Physical and cognitive endurance training
- Depth perception in elderly patients
- Speed and improved reaction performance with leisure activities, driving, and related community activities



MARIANJOY

Assistive
Rehabilitation
Technology Institute

The **Marianjoy Assistive Rehabilitation Technology Institute** offers solutions to everyday problems of daily living encountered by individuals with disabilities. The Institute consists of seven distinct centers which apply advancements in technology to benefit individuals with disabilities through maximizing functional independence, as well as expanding educational, vocational, recreational, and communicative opportunities.

- **Assistive Communication and Daily Living Center**
- **Balance and Vestibular Center**
- **Driver Rehabilitation Center**
- **Gait Analysis and Mobility Center**
- **Prosthetic and Orthotic Center**
- **Swallowing and Voice Center**
- **Wheelchair and Positioning Center**



To make an appointment or
for more information, call

630-909-7150

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