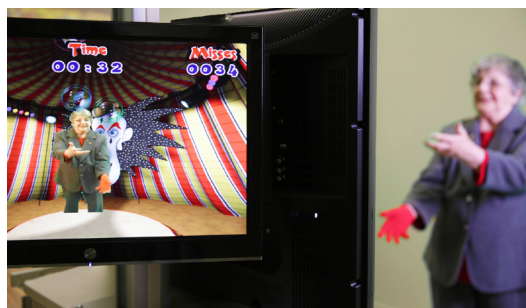
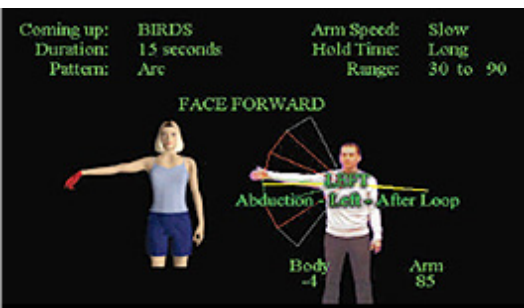
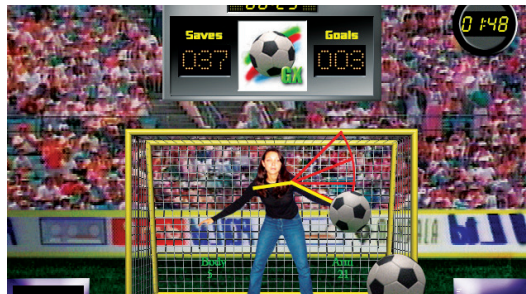
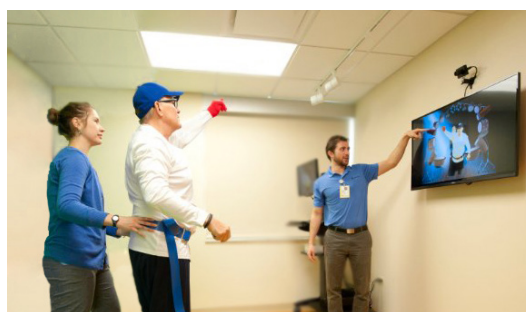


IREX

The IREXTM (Immersive Rehabilitation and Exercise) System places the patient's live video image into virtual reality worlds while tracking isolated joint movement, combined joint movements, and full-body functional movement of both the upper and lower body. As the IREXTM measures, it records and reports the kinematic data of various activities.



THE IREX

The IREXTM utilizes patented immersive video gesture control technology to submerge patients in a virtual sport or game environment, where they are guided through clinician-prescribed therapeutic exercise programs. Patient performance and compliance is measured and recorded in real-time by the system's sophisticated camera tracking technology. IREXTM Systems can be tailored to the specific clinical needs of the patient by isolating certain body parts and/or movement.

UPPER, LOWER & FULL BODY TRACKING

The IREXTM System is unique: it is not hindered by the use of wires or other peripheral devices, which gives the patient total freedom of movement. The exercise programs consist of sports games such as soccer, volleyball, snowboarding, and other adventure-oriented exercises. The programs incorporate many facets of human movement that include balance, hand-eye coordination, flexion, rotation, and other functional movements.

HISTORY

In 2001, GestureTek invented and launched the IREXTM System, using its patented video gesture controlled technology. It revolutionized the rehabilitation experience; by placing patients inside of virtual reality worlds, for the first time, making rehabilitative exercises fun, challenging, and engaging experiences.

There are over 45 research studies from reputable sources demonstrating the positive effects of using the IREXTM in rehabilitation.



IREX



Front View



Side View

The basic IREX™ System consists of: a state-of-the-art computer, tracking camera, and 32" LCD/LED monitor which can be upgraded to a 42" or 50" LCD/LED. This monitor can sit on a table or countertop, or be mounted onto a wall. IREX™ Systems are also delivered on a hospital-grade cart, with an additional 22" monitor for the clinician to view.

IREX SPECIFICATIONS

The therapist can specify and measure range of motion, the frequency of successful exercises and number of repetitions completed resulting in:

- Improved executive functioning
- Improved cortical reorganization
- Improved balance and trunk control
- Improved mobility
- Increased sense of control, achievement and independence
- Improved socialization
- Increased compliance/adherence
- Increased enjoyment and desire to engage
- Pain diversion



Juggler



Sharkbait



Volleyball



Birds and Balls



Lateral Step Up & Down

IREX APPLICATIONS

Application	Function	Balance	Flexion	Rotation	Abduction	Leaning	Crouching	Exertion	Fine Motor	Timing
Airborne Rangers	upper body, arms, shoulders	x	x	x		x	x	x		x
Birds and Balls	shoulder, arms	x	x					x	x	x
Coconut Shooter	legs	x	x					x		x
Conveyor	shoulder, arms, trunk	x		x				x		x
Drums	upper extremities		x					x		x
Gravball	upper body, lower body, arms	x				x	x	x		x
Juggler	upper extremities	x	x					x		x
Snowboarding	upper, lower extremities	x				x		x		x
Sharkbait	upper, lower extremities	x				x	x	x		x
Soccer	upper extremities	x	x		x			x		x
Volleyball	full body	x	x					x		x
Formula Racing	head, torso, upper extremities	x		x		x		x		x
Hip Abduction	hip	x			x			x		x
Lateral Step Up & Down	lower extremities	x	x					x		x
Lunge	lower extremities	x	x				x	x		x
Ninja Flip	leg, ankle		x		x		x	x		
Single Leg Squat	lower extremities, knee	x	x				x	x		x

GestureTek technologies are protected by one or more of the following US patents and their associated international filings

6,353,428 5,534,917 7,058,204 7,227,526 7,379,563 7,379,566 7,389,591 7,421,093 7,430,312
7,574,020 7,555,142 7,570,805 7,777,899 7,822,267 7,827,698 7,853,041 7,848,542 7,898,522