

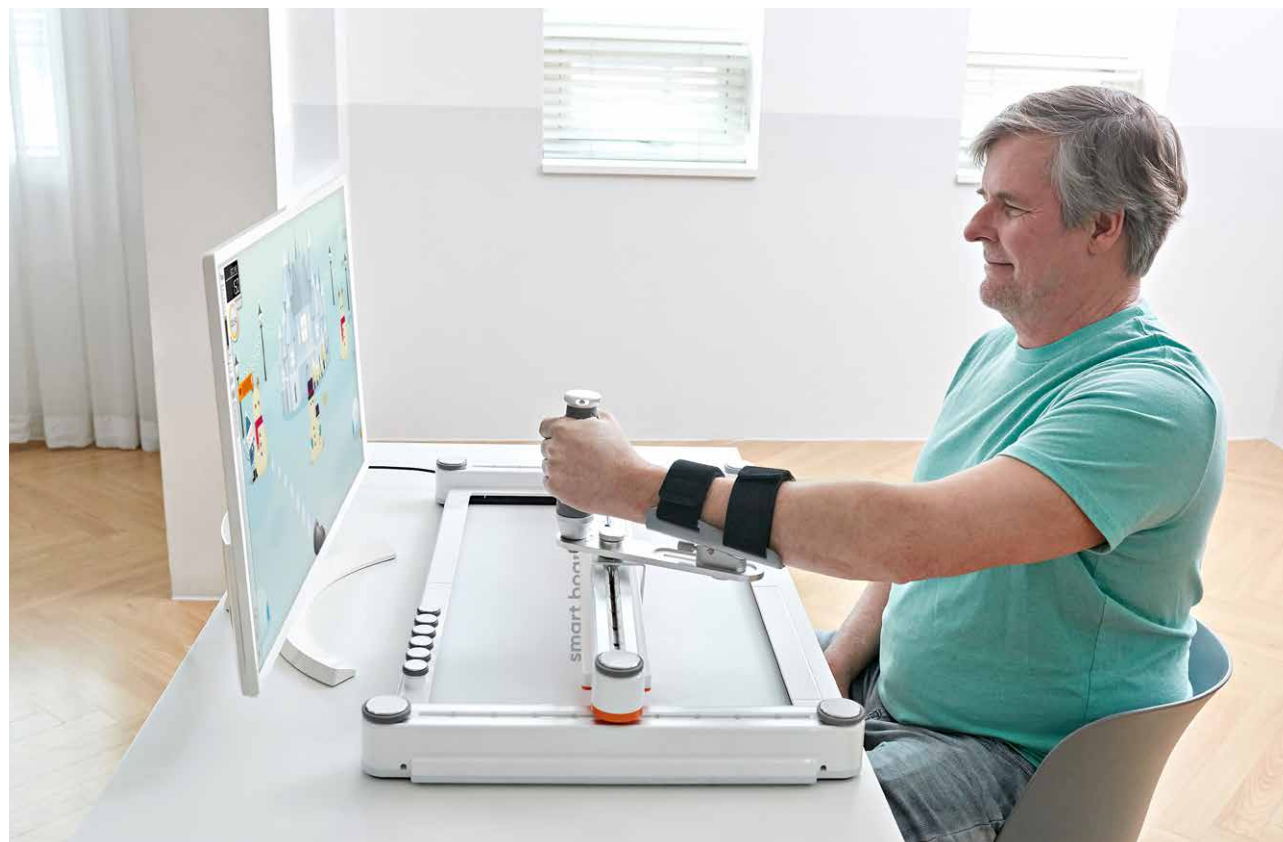
Active upper limb
rehabilitation solution

Neofect Smart Board



Neofect Smart Board

Designed for functional arm reaching, the Neofect Smart Board works with the patient's upper limb range of motion to deliver interactive and engaging rehabilitation.



Importance of Functional Arm Reaching Training

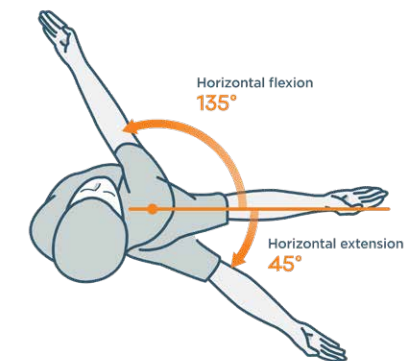
Upper extremity function can often be impaired for stroke survivors. Up to 80% of individuals post-stroke experience paresis of the upper extremity immediately after their stroke. Rehabilitation of the upper extremity remains difficult due to limited rehabilitation resources, time constraints and the focus of early rehab on general mobility, balance and gait. An aggressive restorative program is recommended to regain function in the upper extremity. The repetitive and intensive use of novel tasks that challenge an individual's motor skills, such as those found with use of the Neofect Smart Board, assist with upper limb rehabilitation.

*Lawrence ES et al. Stroke 2001;32(6):1279-84 Lang CE et al. Arch Phys Med Rehabil. 2009 Oct; 90(10):1692-8



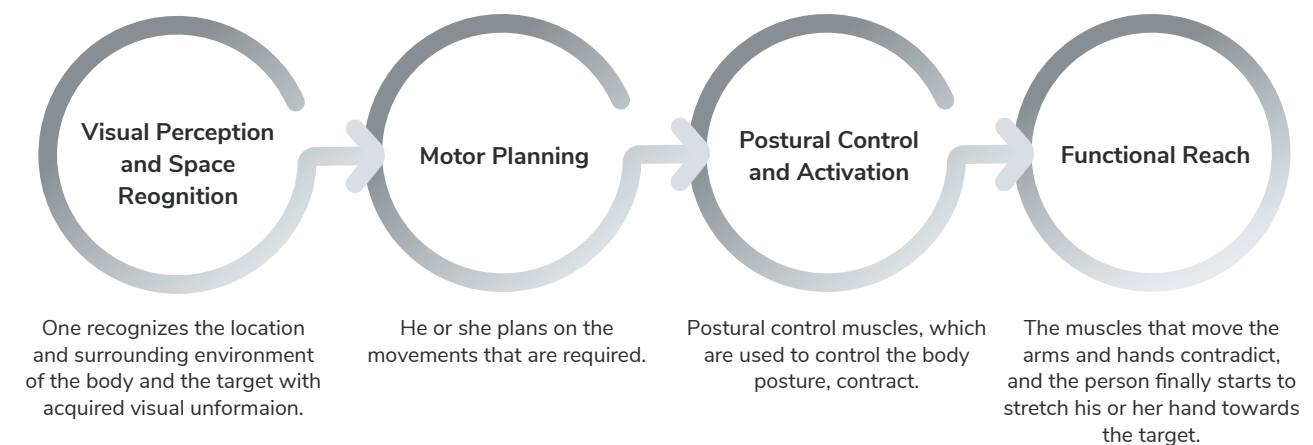
Optimization of Functional Reach

The Smart Board is designed to cover the area of an average adult's horizontal shoulder flexion and extension within 135 degrees and control the trunk as well as shoulder movement so the patient can produce quality task-oriented repetitions. The Smart Board adapts to the patient's current abilities by un-weighting the arm to increase gravity eliminated motion for reaching. Based on the set up of the Neofect Smart Board, trunk motion is controlled in a stationary position. Decreased forward bending while retraining reach increases restoration toward a normal movement pattern, straighter hand paths, more accurate reach and increased scapular motion.



Smart Board Training

Neofect Smart Board allows for task-oriented training in a gravity-eliminated environment, encouraging early mobility of the upper extremity. Unlike robotics, the set up of the Smart Board allows the therapist to guide the patient's movement and provide appropriate manual cues as the patient performs the requisite motor planning and activation to retrain functional reach. Set up time is very minimal, decreasing the likelihood of abandonment.



Platform & Contents

Smart board supports advanced evaluation of shoulder training and systematic rehabilitation training.



Advanced Assessment Tool

In-depth analysis of the patient's abilities with three functional movements



Real-Time Adaptive Algorithm

Rehabilitation solutions adapted to the patient's progress



Augmented Visuo-Motor Feedback

Enables sensory motor training and proprioceptive feedback with VR technology



Intuitive Data Analysis

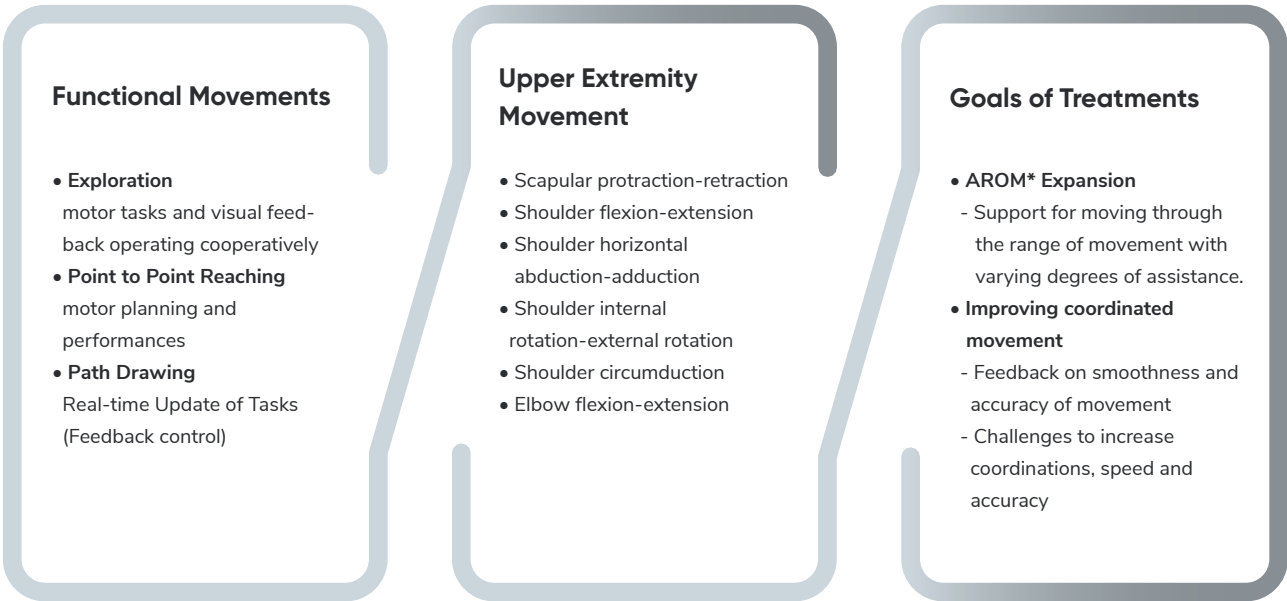
Patient progress tracked and program modified depending on patient improvement



Task-Oriented Training

Motivational platform for upper extremity training through ADL games and leisure activities

Neofect Smart Rehab Protocol



Smart Board Rehab Process



*VR = Virtual Reality. ADL = Activities of Daily Living

*AROM = Active Range of Motion

Smart Board Hardware

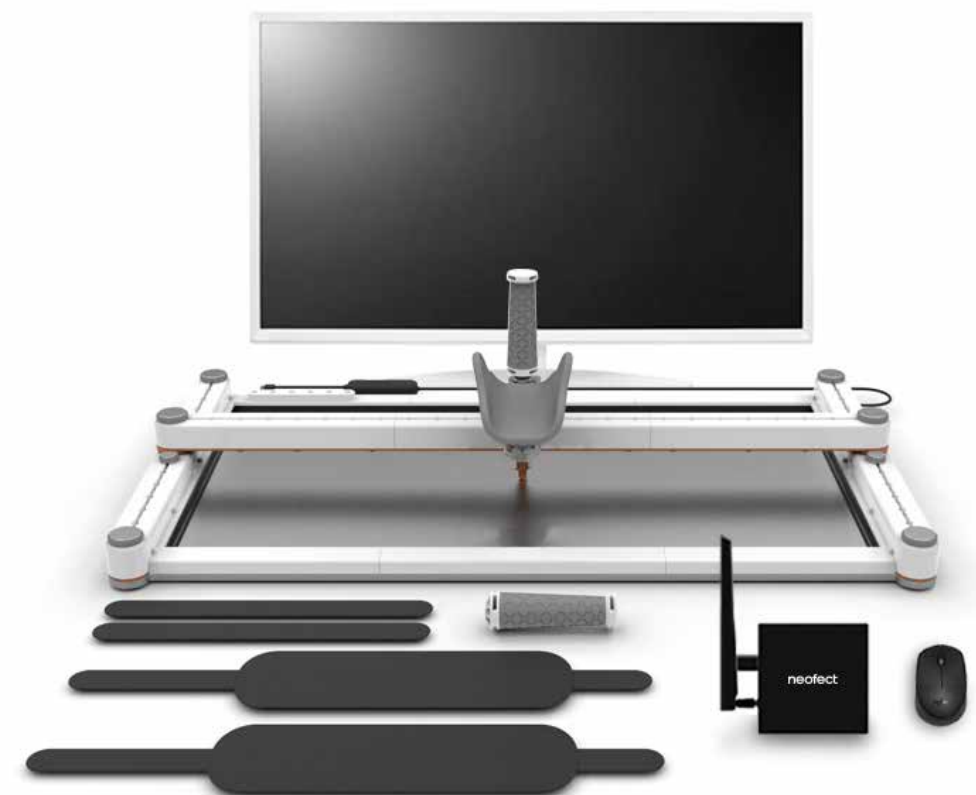


*AROM = Active Range of Motion

Provision of Adapted Convenience Regarding the Patient's Conditions

Components

- Smart Board: 1 each
- Display System: Android Tablet or Android PC Box
- Neofect Clinic Software for Smart Board (includes updates)
- Handle (with & without armrest): 2 each
- Strap: 2 each
- Stopper: 6 each
- HD Monitor (optional)



We inspire hope

We inspire you

No matter the challenges you may face, you still deserve to be the hero of your own life. You deserve to be happy.

Neofect exists for those who strive for the best life they can possibly live. Using breakthrough research and innovative technology, we can help you rediscover your purpose and live your best life.

Let us help you live your life on your own terms. You deserve it.