



BioXtreme

Reprogramming the mind

BioXtreme Rehabilitation Robotics is instilling new dexterity for stroke and other neuro injuries patients.

Using a patent-protected groundbreaking technology, BioXtreme has developed a robotic system that helps with upper limb motoric rehabilitation for stroke and other neuro injuries. Our product, deXtreme™ does automatic rebuild of motion range and capability through adaptive/intuitive learning.

Based on unique robotic system that applies Error Enhancement forces, BioXtreme technology helps reprogramming the mind for extreme performance.



Advantages & Innovation:

Revolutionizing Neurotherapy

- New inherent therapy treatment.
- Current robotics - focusing on automation of human treatment. deXtreme™ - automatic rebuild of motion capability and dexterity through adaptive learning.

Decreasing Rehabilitation period

- Decreasing neuro-recovery period with approx. 50%.
- BioXtreme patients achieve significantly better results than patients treated by traditional neurotherapy methods.

Groundbreaking Technology

- Adaptive product for each patient's individual rehab scheme. System is adaptive for each patient, therapist and operator's needs, which results in maximum effectiveness.
- A smart, "learning" system, motivational and work-encouraging for the patients through extremely friendly user interface.

deXtreme™ Technology:

- VR based application in 3D to create movement exercising scenes.
- Robotic arm containing sensors to measure movement performances.
- 3 motors enabling controlled movements and Error Enhancements in 3D.
- Algorithms to calculate predefined patient's correct motor and patient's motor errors.
- Error Enhancement algorithms.

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