



## Fourier Intelligence Global Partnership Network



# ArmMotus™

Intelligent Upper Extremity Rehabilitation Robotics



[www.fftai.com](http://www.fftai.com)



[info@fftai.com](mailto:info@fftai.com)



[@FourierIntelligence](https://www.youtube.com/@FourierIntelligence)



[@FourierIntelligence](https://www.facebook.com/@FourierIntelligence)

### Shanghai Headquarter

Floor 3, Building No.1,  
88 Chenhui Road, Pudong New Area,  
Shanghai, China, 201203  
Tel: +86 021 50308716

### International Hub

Fourier Intelligence International  
Pte. Ltd.  
Marina One West Tower,  
9 Straits View #05-07  
Singapore 018937  
Tel: +65 6911 6651

### Malaysia Corporate Office

Fourier Intelligence Sdn. Bhd,  
Unit 32-01, Tower B,  
The Vertical Corporate Towers,  
Avenue 10, Bangsar South,  
No. 8, Jalan Kerinchi, 59200,  
Kuala Lumpur, Malaysia  
Tel: +603 2786 3589

# ArmMotus™ M2 Pro

Intelligent Upper Extremity Rehabilitation Robotics

ArmMotus™ M2 Pro is an intelligent upper extremity rehabilitation robotics solution that is applicable to neurological and musculoskeletal disorders. It adopts an innovative integrated design as well as an ultra-thin training platform to provide an extraordinary rehabilitation experience. With intelligent force feedback technology and high-performance motor, ArmMotus™ M2 Pro can deliver precise “assist-as-needed” movement guidance, which provides a more effective rehabilitation process.



# Real-Time Force Feedback Device

ArmMotus™ M2 Pro is an upper extremity rehabilitation robotics solution equipped with intelligent assistance adjustment that can guide the users to build accurate movement trajectories during the acute rehabilitation stage. Meanwhile, for the full recovery of the upper extremity ability, the device can also provide different resistance to achieve various demands from sub-acute to chronic stages of rehabilitation.



Passive Mode



Assistive Mode



Active Mode



Resistive Mode

## Covers the Whole Continuum of Rehabilitation

Rehabilitation from the acute to the chronic stages can be covered with the intelligent force feedback technology that responds to the needs of various patients.

## Abundant Therapies

Professional and personalised therapy including motor control, muscle strength, ROM and cognitive training.

## Digitised Training

Analyses every movement precisely and generates a report after training.

## Quick Setup

User-friendly design that requires only 1 minute to set up and efficiently trains 15 patients daily.

# Multifunctionality

The multifunctional advantage of ArmMotus™ M2 Pro allows it to achieve limitless possibilities in training. For example, combining motor control with cognitive training; isometric strength with dynamic strength training; single joint training with activities of daily living (ADL) training and unilateral with bilateral arm training.

Cylindrical Handle



Fingertip Handle



Ball Handle



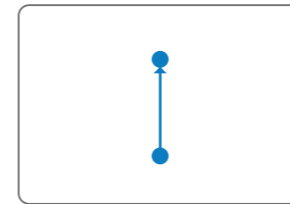
Bilateral Handle



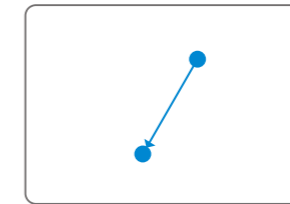
# Personalised Therapy

ArmMotus™ M2 Pro provides abundant therapies for upper limb functions. A therapist can tailor a targeted therapy according to the patient's training outcomes and needs by customising the training trajectory.

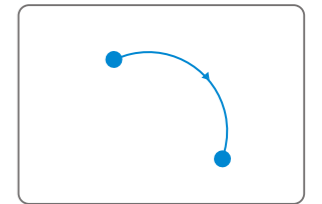
Protraction and Retraction of Shoulder Joint



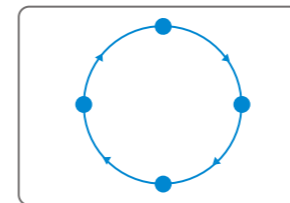
Flexion and Extension of Elbow Joint



Internal and External Rotation of Shoulder Joint



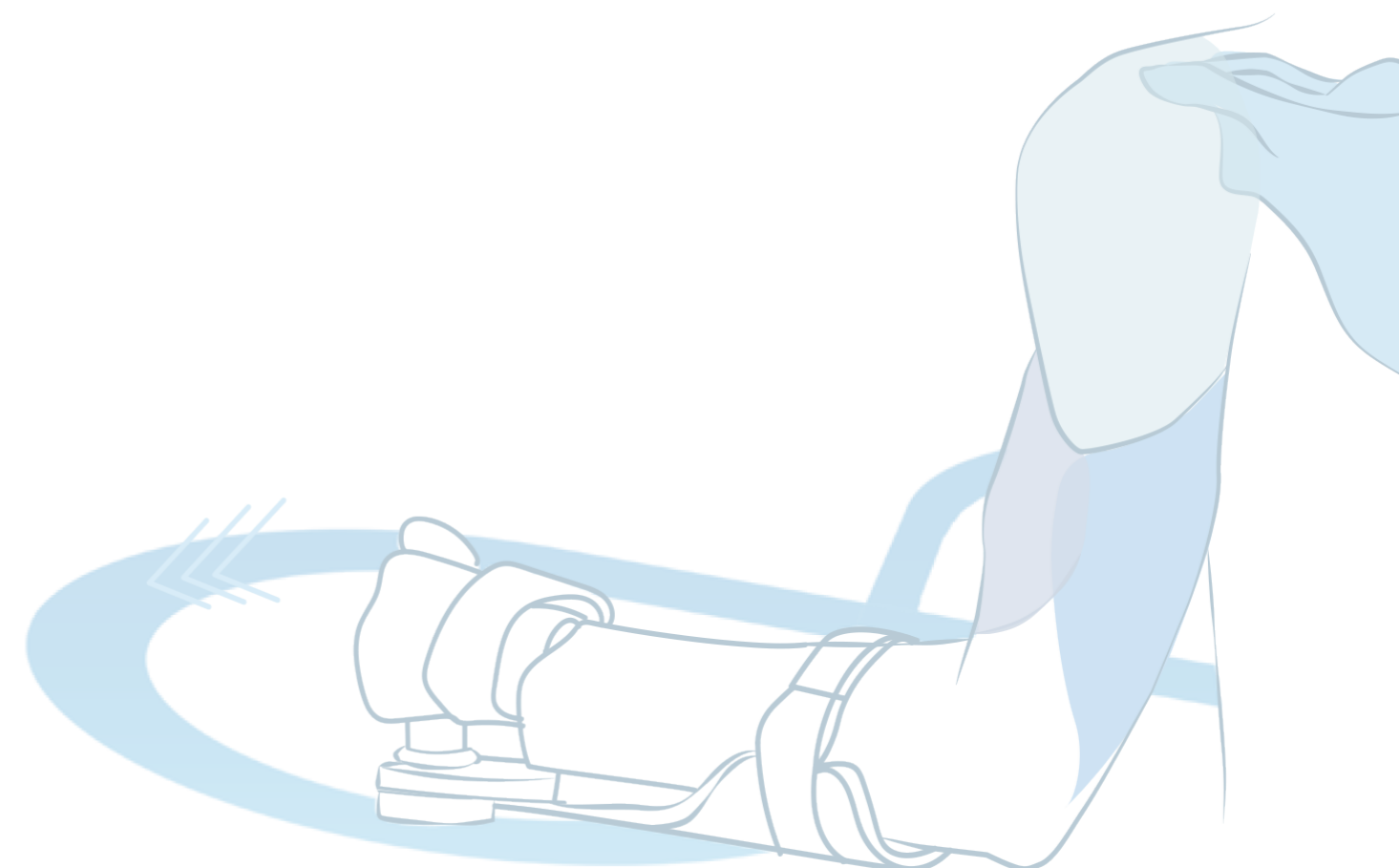
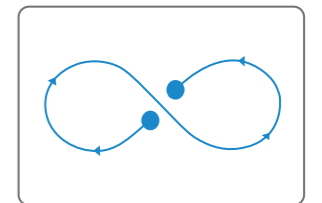
Range of Motion Training



Unilateral Neglect Training



Trunk Control Training



Motor Control



Static Strength



Dynamic Strength



Multiple Joint



Compound Function



Unilateral Training



Bilateral Training



Cognitive Training



## Immersive Interactive Experience

ArmMotus™ M2 Pro provides an extensive library of interactive and engaging games, which motivates the user to complete intensive and repetitive goal-directed tasks with entertainment, thereby considering both clinical effectiveness and fun factors. It can simulate various degrees of resistance, inertia force, elasticity, and obstacles to automatically adjust the level of difficulty game by game.



## Measurable Training

Fourier Intelligence's robotics are integrated with force and position sensors to measure every movement precisely. The device can measure a user's performance from multiple prospects, including the range of motion (ROM), strength, cognition, response time, etc. All of these analyses and training reports should be taken into account to ensure better training outcomes.



Resistance



Inertia Force



Elastic Force



Obstacle



# Empowering You

Fourier Intelligence is a technology-driven company, infusing creativity into the development of exoskeleton and rehabilitation robotics since 2015. Together with researchers, therapists and patients, we aim to excel in developing and redefining rehabilitation robotics solutions with interconnectable intelligent robotics technology by elevating user experience with an intuitive, easy-to-use system to enhance the lives of both patients and therapists.

## Fourier Global Research Joint Laboratories and Clinical Partners



Imperial College  
London



ETH zürich

