

DualMotus

Multi-Functional Rehabilitation Equipment



Product specification:

1. DualMotus is a multi-limb rehabilitation system designed to restore mobility, strength and independence for patients recovering from stroke, neurological injuries or orthopedic conditions through immersive simulation, smart tracking and gamification.
2. 10 attachments are provided such as key, doorknob, steering wheel, ankle, knee & hip, shoulder, forearm, elbow, wrist for radial/ulnar deviation and wrist extension/flexion to perform different joint training.
3. The position of the device is adjustable through the counterweight mechanism to fulfill different training situation.
4. The system is controlled via a tablet with stand for system settings and patient visual input feedback.
5. 4 assistive and 4 resistive modes designed to match different recovery stages.
6. More than 50 interactive ADL and cognitive games to enhance motivation and patient engagement.
7. 4 assessment modules included to ROM, strength, speed and reaction time.
8. Different training parameters to be adjusted such as set, repetition, minimum and maximum range, rest time, assistance, resistance, etc.
9. Real-time patient effort detection helps therapists to monitor recovery progress.
10. Patient management data to store all the information such as assessments and training reports of every patient.
11. Analyze mode to analyze patient recovery in a fully complete analysis.
12. Dimension: 800 x 600 x 1750 mm (L x W x H)
13. Weight: 80kg (exclude accessories)
14. Base size: 650 x 470mm
15. Wheel diameter: 75mm
16. Stand length: 1500mm
17. Heads rotation axis height: 235 – 1600mm
18. Head rotation position accuracy: $\pm 1^\circ$
19. Maximum head rotation torque: 7Nm
20. Torque measurement accuracy: $\pm 0.2\text{Nm}$
21. Head rotation top speed (no-load): $50^\circ/\text{sec}$
22. Operation type: continuous, software controlled
23. Power supply: 220 – 240V, 50Hz, grounded
24. There is one emergency stop button on the device for therapist and one emergency handle button for patient to stop the training during incident to avoid further injury.