

MoLab™

Portable system for motion capture and motion analysis.

MoLab™ system includes

- MoLab™ POSE
 - portable orientation sensor equipment
- MoLab™ measure
 - motion capture software
- MoLab™ analyse
 - motion analysis software



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Description

Visual inspection of gait or other movement patterns is necessary for physicians and physiotherapists in the assessment of disorders of the locomotor system.

To enable more detailed instrumental analysis of movement patterns, MoLab™ can be used to capture these patterns, calculate movement features and also to visualize the results in standardized reports.

Applications

MoLab™ is a cost-effective tool that can be used by researchers, physiotherapists, physicians and engineers. Applications are for example sports biomechanics, gait analysis, ergonomic investigations and rehabilitation assessment.



Usage

- Attach sensors using elastic bands and/or double sided tape.
- Use standardized measurement protocols and segment models or create your own.
- Capture human movement patterns as specified by the measurement protocol.
- Analyze and store the results from your measurement.



Features

- Portable for usage indoor or outside.
- Wireless transmission to computer.
- Operating time; more than 4 hours.
- Measurement range; up to 100 meters.
- Sample frequency; up to 256 Hz.
- Sensor size down to 28x28x10mm.
- Measures orientation, angle velocity, linear acceleration, and heading in 3D.
- Includes standardized models of human body with 3DOF joints.
- Create customized model.
- Stores captured data in a SQL-database.
- Use included reports or create customized.
- Compare data from different groups.
- Export captured data to Excel or Matlab.

