PORTABLE

Motion Capture IMUs

Now available with the Calibration Adjustment Tool

3D Kinematic Data Collection

- 6 Degrees of Freedom
- High sampling rate (200 Hz)
- Single joint measurements
- Ability to include object sensors
- Freely assignable sensors
- "Lossless" on-board data recovery
The MyoMotion System

Wireless sensors allow for 3D motion capture in challenging environments.

The MyoMotion System uses advanced, medical grade inertial measurement units (IMUs) that measure 3D motion with an accuracy level within 1 to 2 degrees of legacy camera based systems. IMUs allow for a level of flexibility not possible in a lab-based, wireless system and is ideal for recording data in natural environments.

With the MyoMotion Software you can measure:
• Skeleton or human avatar
• Contact detection for walking gait
• Orientation angles
• Anatomical (joint) angles
• Linear accelerations

You always have access to:
• Quaternions
• Raw data from accelerometer, gyroscopes, magnetometers

Synchronize motion data with EMG, pressure, force, video, and third party devices.

www.noraxon.com
The Calibration Adjustment Tool

Allows for modification and correction of the software model calibration procedure.

Ideal for the following applications:
1. When a subject is unable to position their body in one of the required calibration positions.
2. When a high accuracy calibration is required for research settings.

By digitizing bony landmarks on the subjects body, the Calibration Adjustment Tool applies the exact location and orientation of the body segment to the calibration. This offsets the original calibration to the exact positioning of the subject for more accurate and representative data.

What’s Included
• Source & Stylus
• Two clinical myoMotion sensors
• Tripod
## Motion Capture Systems

<table>
<thead>
<tr>
<th></th>
<th>RESEARCH PRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum # of sensors</td>
<td>18</td>
</tr>
<tr>
<td>Maximum sampling rate</td>
<td>200 Hz</td>
</tr>
<tr>
<td>Data logger</td>
<td>Optional</td>
</tr>
<tr>
<td>Accuracy: anatomical angle - static / dynamic</td>
<td>1° / 2°</td>
</tr>
<tr>
<td>Accuracy: orientation angle - pitch / heading</td>
<td>0.25° / 1.25°</td>
</tr>
<tr>
<td>3 Axis Analog Sensing Element Set:</td>
<td>+/- 1.7g at 800 Hz</td>
</tr>
<tr>
<td>3 Axis Digital Sensing Element Set:</td>
<td>+/- 16g at 400 Hz</td>
</tr>
<tr>
<td>Inter-sensor Latency</td>
<td>&lt; 10 μsec</td>
</tr>
<tr>
<td>Transmission Range</td>
<td>30 m</td>
</tr>
<tr>
<td>Battery Life</td>
<td>8 hrs</td>
</tr>
<tr>
<td>Data Loss</td>
<td>Lossless Recovery</td>
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